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European Standard (Telecommunications series)

**Broadband Integrated Services Digital Network (B-ISDN);
Digital Subscriber Signalling System No. two (DSS2) protocol;
B-ISDN user-network interface layer 3
specification for basic call/bearer control;
Part 2: Protocol Implementation Conformance
Statement (PICS) proforma specification**



Reference

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN).

The present document is part 2 of a multi-part deliverable covering Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; B-ISDN user-network interface layer 3 specification for basic call/bearer control, as identified below:

- Part 1: "Protocol specification [ITU-T Recommendation Q.2931 (1995), modified]";
- Part 2: "Protocol Implementation Conformance Statement (PICS) proforma specification";**
- Part 3: "Test Suite Structure and Test Purposes (TSS&TP) specification for the user";
- Part 4: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the user";
- Part 5: "Test Suite Structure and Test Purposes (TSS&TP) specification for the network";
- Part 6: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the network".

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Introduction

To evaluate conformance of a particular implementation, it is necessary to have a statement of which capabilities and options have been implemented for a given protocol. Such a statement is called an Implementation Conformance Statement (ICS). An ICS stating what capabilities and options have been implemented for a particular protocol is called a protocol ICS. This is commonly abbreviated to "PICS".

EN 300 443-1 [1] is derived from ITU-T Recommendation Q.2931 [5]. However, no PICS proforma exists for this recommendation. Therefore, ETSI has created a PICS proforma that is specific to the European environment. This PICS proforma reflects the requirements contained in ITU-T Recommendation Q.2931 [5] with the modifications applied by EN 300 443-1 [1]. This has been done to assist understanding of how the European requirements relate to the requirements contained within ITU-T Recommendation Q.2931 [5] (and in particular, to the options specified in that recommendation that are selected by the present document). In practical terms, this means that a number of capabilities specified by ITU-T Recommendation Q.2931 [5] appear as items in this PICS proforma with a status more akin to the status that would be expected in a profile ICS (i.e. out-of-scope (I), prohibited (X)).

1 Scope

The present document provides the Protocol Implementation Conformance Statement (PICS) proforma for the Broadband Integrated Services Digital Network (B-ISDN) Digital Subscriber Signalling System No. two (DSS2) protocol user-network interface layer 3 specification for basic call control defined in EN 300 443-1 [1] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [3].

The supplier of a protocol implementation that is claimed to conform to EN 300 443-1 [1] is required to complete a copy of the PICS proforma provided in annex A of the present document and is required to provide the information necessary to identify both the supplier and the implementation.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

- [1] ETSI EN 300 443-1 (1.3.5): "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; B-ISDN user-network interface layer 3 specification for basic call/bearer control; Part 1: Protocol specification [ITU-T Recommendation Q.2931 (1995), modified]".
- [2] ISO/IEC 9646-1 (1994): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [3] ISO/IEC 9646-7 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".
- [4] ETSI EN 301 068-2: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characteristics; ATM transfer capability and traffic parameter indication; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [5] ITU-T Recommendation Q.2931 (1995): "Broadband Integrated Services Digital Network (B-ISDN) - Digital Subscriber Signalling System No. 2 (DSS 2) – User-Network Interface (UNI) - Layer 3 specification for basic call/connection control".
- [6] ITU-T Recommendation Q.2965.1 (1999): "Digital Subscriber Signalling System No. 2 – Support of Quality of Service classes".
- [7] ITU-T Recommendation Q.2965.2 (2000): "Digital Subscriber Signalling System No. 2 – Signalling of individual Quality of Service parameters".
- [8] ISO 1745 (1975): "Information processing - Basic mode control procedures for data communication systems".
- [9] ISO/IEC 8802-2 (1998): "Information technology -- Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 2: Logical link control".
- [10] ISO/IEC 7776 (1995): "Information technology - Telecommunications and information exchange between systems - High-level data link control procedures - Description of the X.25 LAPB-compatible DTE data link procedures".

- [11] ISO/IEC 8208 (2000): "Information technology - Data communications - X.25 Packet Layer Protocol for Data Terminal Equipment".
- [12] ISO/IEC 8878 (1992)/ITU-T Recommendation X.223 (1993): "Information technology - Telecommunications and information exchange between systems - Use of X.25 to provide the OSI Connection-mode Network Service".
- [13] ISO/IEC 8473-1 (1998)/ITU-T Recommendation X.233 (1997): "Information technology - Protocol for providing the connectionless-mode network service: Protocol specification".
- [14] ISO/IEC TR 9577 (1999): "Information technology - Protocol identification in the network layer".
- [15] ITU-T Recommendation X.25 (1996): "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".
- [16] ITU-T Recommendation X.75 (1996): "Packet-switched signalling system between public networks providing data transmission services".
- [17] ITU-T Recommendation Q.921 (1997)/I.441: "ISDN user-network interface - Data link layer specification".
- [18] ITU-T Recommendation Q.922 (1992): "ISDN data link layer specification for frame mode bearer services".
- [19] ITU-Recommendation Q.33 (1988): "Protection against the effects of faulty transmission on groups of circuits".
- [20] ITU-T Recommendation H.310 (1998): "Broadband audiovisual communication systems and terminals".
- [21] ITU-T Recommendation H.321 (1998): "Adaptation of H.320 visual telephone terminals to B-ISDN environments".
- [22] ITU-T Recommendation T.70 (1993): "Network-independent basic transport service for the telematic services".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in EN 300 443-1 [1], ISO/IEC 9646-1 [2] and the following apply.

network: DSS2 protocol entity at the network side of the user-network interface

user: DSS2 protocol entity at the user side of the user-network interface

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

AAL	ATM Adaptation Layer
ATM	Asynchronous Transfer Mode
B-ISDN	Broadband ISDN
CBR	Constant Bit Rate
CLP	Cell Loss Priority
CPCS	Common Part Convergence Sublayer
DSS2	Digital Subscriber Signalling System No. two
DTE	Data Terminal Equipment
FEC	Forward Error Correction

HDLC	High-level Data Link Control
HDLC ABM	HDLC Asynchronous Balanced Mode
HDLC ARM	HDLC Asynchronous Response Mode
HDLC NRM	HDLC Normal Response Mode
ICS	Implementation Conformance Statement
ISDN	Integrated Services Digital Network
IUT	Implementation Under Test
LAN	Local Area Network
LAPB	Link Access Protocol Balanced
MID	Multiplexing Identifier
NSAP	Network layer Service Access Point
OAM	Operations And Maintenance
PDU	Protocol Data Unit
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
QOS	Quality Of Service
SDU	Service Data Unit
SLP	Single Link Procedure
SSCOP	Service Specific Connection-Oriented Protocol
SSCS	Service Specific Convergence Sublayer
SUT	System Under Test
TSS&TP	Test Suite Structure and Test Purposes
VC	Virtual Connection
VCI	VC Identifier
VP	Virtual Path
VPC	VP Connection
VPCI	VPC Identifier

4 Conformance

A PICS proforma that conforms to this PICS proforma specification shall be technically equivalent to annex A, and shall preserve the numbering and ordering of the items in annex A.

A PICS that conforms to this PICS proforma specification shall:

- a) describe an implementation which conforms to EN 300 443-1 [1];
- b) be a conforming PICS proforma, which has been completed in accordance with the instructions for completion given in clause A.1;
- c) include the information necessary to uniquely identify both the supplier and the implementation.

Annex A (normative): PICS proforma for EN 300 443-1

Notwithstanding the provisions of the copyright clause related to the text of the present document, ETSI grants that users of the present document may freely reproduce the PICS proforma in this annex so that it can be used for its intended purposes and may further publish the completed PICS.

A.1 Guidance for completing the PICS proforma

A.1.1 Purpose and structure

The purpose of this PICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in EN 300 443-1 may provide information in a standardized manner.

The PICS proforma is subdivided into clauses as follows:

- A.1: guidance for completing the various parts of the PICS proforma;
- A.2: identification of the implementation;
- A.3: identification of the protocol to which this PICS proforma applies;
- A.4: explanation of the PICS proforma tables;
- A.5: global statement of conformance;
- A.6: questions to determine roles;
- A.7: questions for the user role;
- A.8: questions for the network role.

A.1.2 Abbreviations and conventions

The PICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7.

Item column

The item column contains a unique reference (a mnemonic plus a number) for each item within the PICS proforma. Items are not always numbered sequentially.

Item description column

The item description contains a brief summary of the static requirement for which a support answer is required.

Conditions for status column

The conditions for status column contains a specification, if appropriate, of the predicate upon which a conditional status is based.

Status column

The following notations, defined in ISO/IEC 9646-7, are used for the status column:

- | | |
|-----|--|
| I | Irrelevant or out-of-scope - this capability is outside the scope of the EN to which this PICS proforma applies and is not subject to conformance testing in this context. |
| M | Mandatory - the capability is required to be supported. |
| N/A | Not Applicable - in the given context, it is impossible to use the capability. No answer in the support column is required. |

- O Optional - the capability may be supported or not.
- O.i qualified Optional - for mutually exclusive or selectable options from a set. "i" is an integer that identifies a unique group of related optional items and the logic of their selection, defined below the table.
- X eXcluded or prohibited - there is a requirement not to use this capability in a given context.

Reference column

Except where explicitly stated, the reference column refers to the appropriate text of ITU-T Recommendation Q.2931 as modified by EN 300 443-1 describing the particular item.

NOTE: A reference indicates only the location of the most essential information about an item. All additional requirements contained in EN 300 443-1 have also to be taken into account when making a statement about the conformance of that particular item.

Support column

The following notation, defined in ISO/IEC 9646-7, is used for the support column:

- Yes Tick "Yes" if item is supported.
- No Tick "No" if item is not supported.
- N/A Tick "N/A" if the item is "not applicable".

Prerequisite line

A prerequisite line takes the form: Prerequisite: <predicate>.

A prerequisite line after a clause heading or table title indicates that the whole clause or the whole table is not required to be completed if the predicate is FALSE.

A.1.3 Instructions for completing the PICS proforma

The supplier of the implementation shall complete the PICS proforma. For each row in each PICS proforma table the supplier shall enter an explicit answer (i.e. by ticking the appropriate "Yes", "No", or "N/A" in each of the support column boxes provided). Where a support column box is left blank, or where it is marked "N/A" without any tick box, no answer is required.

If necessary, the supplier may enter additional comments at the end of each table, or separately.

More detailed instructions may be found at the beginning of each clause of the proforma.

A.2 Identification of the implementation

Identification of the Implementation Under Test (IUT) and the system in which it resides (the System Under Test (SUT)) should be filled in to provide as much detail as possible regarding version numbers and configuration options.

The product supplier and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the PICS should be named as the contact person.

A.2.1 Date of the statement

.....

A.2.2 Implementation Under Test (IUT) identification

IUT name:

.....
.....

IUT version:

.....

A.2.3 System Under Test (SUT) identification

SUT name:

.....
.....

Hardware configuration:

.....
.....
.....

Operating system:

.....

A.2.4 Product supplier

Name:

.....

Address:

.....
.....
.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....
.....
.....

A.2.5 Client

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

A.2.6 PICS contact person

Name:

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

A.3 Identification of the protocol to which this PICS proforma applies

This PICS proforma applies to EN 300 443-1.

A.4 PICS proforma tables

A.4.1 Correspondence to a physical interface

The "implementation" (IUT) about which this PICS proforma asks questions corresponds to a layer 3 implementation on top of ONE physical interface. If the SUT implements more than one configuration, then a layer 3 PICS shall be created for each type of interface (and for each configuration of each interface) provided by the SUT.

A.4.2 Structure of the tables

The supplier shall provide answers to the questions concerning the major roles of the IUT (see table A.1). The supplier shall then provide answers to the questions relating to the capabilities of the IUT in one of the major roles as appropriate. Apart from the initial questions to determine roles, the major roles of the IUT (the user role (R 1) and the network role (R 2)) are treated completely separately in the PICS proforma. It is only necessary to complete the questions for the supported role. Clause A.7 concerns the capabilities of the IUT whilst in the user role. Clause A.8 concerns the capabilities of the IUT whilst in the network role.

A.4.3 Complexity of conditions in Protocol Data Unit (PDU) parameter tables

The conditions governing when an individual Parameter has to be supported in a specific message are quite complex. To make the conditions for status easier to understand questions about these Parameters have been split into several sub-items.

A.4.4 Support for received PDU parameters

In the PDU parameter tables (see clauses A.7.5 and A.8.5), the PICS proforma asks questions about the information elements (parameters) supported in messages (PDUs) received by the IUT. This clause explains, in the context of EN 300 443-1, what "to support a received PDU parameter" means.

The requirement that an IUT is able to parse an Parameter in a received message is already implied by claiming support for the receipt of that received message. This means that "to support a received PDU parameter" implies more.

Parameters in received messages are regarded as either transparent or non-transparent.

A non-transparent Parameter is one that causes the protocol control entity to vary its behaviour in accordance with the content of the Parameter. To support a non-transparent Parameter means an IUT can process the received parameter and behave according to the procedures described in EN 300 443-1.

An Parameter is transparent if the actions taken according to its contents are not detectable in the subsequent behaviour of the protocol (i.e. EN 300 443-1 does not specify the protocol behaviour). To support a transparent Parameter means an IUT can receive the Parameter concerned and pass it to an appropriate processing entity (e.g. call control); the Parameter is not discarded by the protocol control entity. Non-support of a transparent Parameter means that the IUT discards it.

This PICS proforma considers the Cause Parameter to be transparent in all circumstances where it is possible to be received. Other Parameters may be transparent in some circumstances.

A.5 Global statement of conformance

Does the implementation described in this PICS meet all the mandatory requirements of the referenced standard?

Yes

No

NOTE: Answering "No" to this question indicates non-conformance to the protocol specification. Non-supported mandatory capabilities are to be identified in the PICS, with an explanation of why the implementation is non-conforming. Explanations may be entered in the comments field at the bottom of each table or on attached pages.

A.6 Roles

Table A.1: Roles

Item	Role: Does the implementation support...?	Conditions for status	Status	Reference	Support
R 1	the user role		O.1		<input type="checkbox"/> Yes <input type="checkbox"/> No
R 2	the network role		O.1		<input type="checkbox"/> Yes <input type="checkbox"/> No

NOTE: O.1 = Support of one, and only one, of these options is required.

A.7 User

The tables provided in this clause need only to be completed for user implementations:

Prerequisite: R 1.

A.7.1 Major capabilities

Each question in table A.2 refers to a major function of the protocol. Answering "Yes" to a particular question states that the implementation supports all the mandatory procedures for that function defined in the referenced clauses and clauses of ITU-T Recommendation Q.2931 as modified by EN 300 443-1. Answering "No" to a particular question states that the implementation does not support that function of the protocol.

Table A.2: Major capabilities of the user role

Item	Major capability: Does the implementation support...?	Conditions for status	Status	Reference	Support
Call establishment at the originating interface					
MCu.1	outgoing calls		O.2	5.1	[]Yes []No
MCu.1.1	associated signalling on the originating side	MCu.1 NOT MCu.1	O N/A	5.1.2	[]Yes []No []N/A
Call establishment at the destination interface					
MCu.2	incoming calls		O.2	5.2	[]Yes []No
MCu.2.1	associated signalling on the destination side	MCu.2 NOT MCu.2	O N/A	5.2.3, 5.2.3.1	[]Yes []No []N/A
Others					
MCu.3	initiation of call clearing		M	5.4	[]Yes []No
MCu.4	restart procedure		M	5.5	[]Yes []No
MCu.5	handling of error conditions		M	5.6	[]Yes []No
MCu.5.1	invocation of the status enquiry procedure on receipt of an AAL-ESTABLISH.indication in the call establishment phase		O	5.6.9 b)	[]Yes []No
MCu.6	error procedures with explicit action indication		M	5.7	[]Yes []No
MCu.7	handling of messages with insufficient information		M	5.8	[]Yes []No
MCu.8	notification procedures		M	5.9	[]Yes []No
MCu.9	additional procedures for the provision of 64 kbit/s circuit-mode services		O	6	[]Yes []No
MCu.10	broadband low layer information negotiation		O	annex C	[]Yes []No
MCu.11	transit network selection procedures		O	clause D.2	[]Yes []No
MCu.12	ATM adaptation layer parameters indication and negotiation		O	annex F	[]Yes []No
MCu.13	handling of the OAM traffic descriptor		O	annex I	[]Yes []No
MCu.14	handling of the End-to-end transit delay Parameter		O	annex K	[]Yes []No
NOTE: O.2 = Support of at least one of these options is required.					

A.7.2 Subsidiary capabilities

Indicating support for an item in table A.3 states that the implementation supports special cases or options within a major capability.

Table A.3: Subsidiary capabilities of the user role

Item	Subsidiary capability: Does the implementation support...?	Conditions for status	Status	Reference	Support
Call establishment at the originating interface					
SCu.1	sending of the called party address information in the Called party number Parameter	MCu.1 NOT MCu.1	M N/A	5.1.1	[]Yes []No []N/A
SCu.2	overlap sending	MCu.9 AND MCu.1 NOT (MCu.9 AND MCu.1)	O N/A	6.5.2	[]Yes []No []N/A
SCu.2.1	sending of the Broadband sending complete Parameter	SCu.2 NOT SCu.2	O N/A	6.5.2	[]Yes []No []N/A
SCu.2.2	Sending of the CONNECTION AVAILABLE by the calling user to the network	MCu.1 NOT MCu.1	O N/A	3.1.11; annex N	[]Yes []No []N/A
Call establishment at the destination interface					
SCu.3	compatibility checking	MCu.2 NOT MCu.2	M N/A	5.2.2.2	[]Yes []No []N/A
SCu.4	overlap receiving (note)	MCu.9 AND MCu.2 NOT (MCu.9 AND MCu.2)	O N/A	6.5.3	[]Yes []No []N/A
SCu.5.1	the sending of the ALERTING message as a first response to a SETUP message	MCu.2 NOT MCu.2	O N/A	5.2.3	[]Yes []No []N/A
SCu.5.2	the sending of the CALL PROCEEDING message as a first response to a SETUP message	MCu.2 NOT MCu.2	O N/A	5.2.3	[]Yes []No []N/A
SCu.5.3	the sending of the CONNECT message as a first response to a SETUP message	MCu.2 NOT MCu.2	O N/A	5.2.3	[]Yes []No []N/A
SCu.5.4	Receiving of CONNECTION AVAILABLE from the network by the called user	MCu.2 NOT MCu.2	O N/A	3.1.11; annex N	[]Yes []No []N/A
NOTE: Non-support of this item may preclude proper operation in certain countries.					

A.7.3 PDUs

The tables in this clause ask questions related to the supported PDUs in the user role. In the DSS2 protocol, PDUs are known by the term "messages".

A.7.3.1 Messages received by the user

Indicating support for an item in table A.4 states that the implementation has the ability to recognize the message listed in that item. Support for the receipt of a particular type of PDU means support for recognizing and acting upon all valid instances of that PDU type, including all valid PDU parameters, to the extent required by EN 300 443-1.

NOTE: MRu stands for Message Received by user

Table A.4: Messages received by the user

Item	Message: Does the implementation support the receipt of...?	Conditions for status	Status	Reference	Support
MRu.1	ALERTING	MCu.1 NOT MCu.1	M N/A	3.1.1, 3.2.1, 5.1.6	[]Yes []No []N/A
MRu.2	CALL PROCEEDING	MCu.1 NOT MCu.1	M N/A	3.1.2, 3.2.2, 5.1.5	[]Yes []No []N/A
MRu.3	CONNECT	MCu.1 NOT MCu.1	M N/A	3.1.3, 3.2.3, 5.1.7	[]Yes []No []N/A
MRu.4	CONNECT ACKNOWLEDGE	MCu.2 NOT MCu.2	M N/A	3.1.4, 5.2.7	[]Yes []No []N/A
MRu.5	CONNECTION AVAILABLE	If SCu2.2 NOT SCu2.2	M N/A		[]Yes []No []N/A
MRu.6	INFORMATION	SCu.4 NOT SCu.4	M N/A	3.2.4, 6.5.3	[]Yes []No []N/A
MRu.7	NOTIFY		M	3.1.10, 5.9	[]Yes []No
MRu.8	PROGRESS	MCu.9 NOT MCu.9	M N/A	3.2.5, 6.6.1, 6.6.2	[]Yes []No []N/A
MRu.9	RELEASE		M	3.1.5, 3.2.6, 5.4.4, 5.4.5	[]Yes []No
MRu.10	RELEASE COMPLETE		M	3.1.6, 5.1.2, 5.1.3, 5.2.5.3, 5.4.3, 5.6.3.2, 5.6.7, 5.6.8.1, 5.7.2	[]Yes []No
MRu.11	RESTART		M	3.3.1, 5.5.2	[]Yes []No
MRu.12	RESTART ACKNOWLEDGE		M	3.3.2, 5.5.1	[]Yes []No
MRu.13	SETUP	MCu.2 NOT MCu.2	M N/A	3.1.7, 3.2.7, 5.2	[]Yes []No []N/A
MRu.14	SETUP ACKNOWLEDGE	SCu.2 NOT SCu.2	M N/A	3.2.8, 6.5.2	[]Yes []No []N/A
MRu.15	STATUS		M	3.1.8, 5.6.3.2, 5.6.12	[]Yes []No
MRu.16	STATUS ENQUIRY		M	3.1.9, 5.6.3.2, 5.6.11	[]Yes []No

A.7.3.2 Messages transmitted by the user

Indicating support for an item in table A.5 states that the implementation has the ability to transmit the message listed in that item.

Table A.5: Messages transmitted by the user

Item	Message: Does the implementation support the receipt of...?	Conditions for status	Status	Reference	Support
MTu.1	ALERTING	MCu.2 NOT MCu.2	M N/A	3.1.1, 3.2.1, 5.2.5.1	[]Yes []No []N/A
MTu.2	CALL PROCEEDING	MCu.2 NOT MCu.2	M N/A	3.1.2, 3.2.2, 5.2.5.1	[]Yes []No []N/A
MTu.3	CONNECT	MCu.2 NOT MCu.2	M N/A	3.1.3, 3.2.3, 5.2.6	[]Yes []No []N/A
MTu.4	CONNECT ACKNOWLEDGE	MCu.1 NOT MCu.1	M N/A	3.1.4, 5.1.7	[]Yes []No []N/A
MTu.5	CONNECTION AVAILABLE	SCu.2 NOT SCu.2	M N/A	3.1.11	[]Yes []No []N/A
MTu.6	INFORMATION	SCu.2 NOT SCu.2	M N/A	3.2.4, 6.5.2	[]Yes []No []N/A
MTu.7	NOTIFY		M	3.1.10, 5.9	[]Yes []No
MTu.8	PROGRESS	MCu.9 NOT MCu.9	M N/A	3.2.5, 6.6.1, 6.6.2	[]Yes []No []N/A
MTu.9	RELEASE		M	3.1.5, 3.2.6, 5.4.3	[]Yes []No
MTu.10	RELEASE COMPLETE		M	3.1.6, 5.2.2.2.2, 5.2.3, 5.2.4, 5.2.5, 5.4.4	[]Yes []No
MTu.11	RESTART		M	3.3.1, 5.5.1	[]Yes []No
MTu.12	RESTART ACKNOWLEDGE		M	3.3.2, 5.5.2	[]Yes []No
MTu.13	SETUP	MCu.1 NOT MCu.1	M N/A	3.1.7, 3.2.7, 5.1	[]Yes []No []N/A
MTu.14	SETUP ACKNOWLEDGE	SCu.4 NOT SCu.4	M N/A	3.2.8, 6.5.3	[]Yes []No []N/A
MTu.15	STATUS		M	3.1.8, 5.5.2.1, 5.6.3.2, 5.6.4, 5.6.7, 5.6.8, 5.6.11, 5.7	[]Yes []No
MTu.16	STATUS ENQUIRY		M	3.1.9, 5.6.3.2, 5.6.11	[]Yes []No

A.7.4 PDU parameters

The tables in this clause ask questions related to the support of PDU parameters in messages received and transmitted by the IUT in the user role. In the DSS2, protocol PDU parameters are known by the term "Parameters".

Tables A.6 and A.7 deal with the four Parameters that appear in all messages that are either received or transmitted (respectively) by the IUT in the user role (Protocol discriminator, Call reference, Message type and Message length) and two Parameters which may appear in a message for which it is mandatory for the receiver to interpret (shift Parameters).

NOTE 1: Those two shift elements do not appear in the CONNECTION AVAILABLE message.

NOTE 2: Numbering of Parameters for the present document is given in table:

Table A.5a

IE Number	IE name
IE.1	Protocol discriminator
IE.2	Call reference
IE.3	Message type
IE.4	Message length
IE.5	Called party number
IE.6	Called party sub-address
IE.7	Transit network selection
IE.8	Restart indicator
IE.9	Narrow-band low layer compatibility
IE.10	Narrow-band high layer compatibility
IE.11	Broadband locking shift
IE.12	Broadband non-locking shift
IE.13	Broadband sending complete
IE.14	Broadband repeat indicator
IE.15	Calling party number
IE.16	Calling party sub-address
IE.17	ATM adaptation layer parameters
IE.18	ATM traffic descriptor
IE.19	Connection identifier
IE.20	OAM traffic descriptor
IE.21	Quality of Service parameter
IE.22	Broadband bearer capability
IE.23	Broadband Low Layer Information (B-LLI)
IE.24	Broadband High Layer Information (B-HLI)
IE.25	End-to-end transit delay
IE.26	Notification indicator
IE.27	Call state
IE.28	Progress indicator
IE.29	Narrow-band bearer capability
IE.30	Cause
IE.31	Broadband report type

Table A.6: Parameters in all messages received by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MRu-IE.1	Protocol discriminator		M	3.1, 3.2, 4.2	<input type="checkbox"/> Yes <input type="checkbox"/> No
MRu-IE.32	Call reference		M	3.1, 3.2, 4.3	<input type="checkbox"/> Yes <input type="checkbox"/> No
MRu-IE.33	Message type		M	3.1, 3.2, 4.4.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
MRu-IE.34	Message length		M	3.1, 3.2, 4.4.2	<input type="checkbox"/> Yes <input type="checkbox"/> No
MRu-IE.11	Broadband locking shift		M	4.5.3	<input type="checkbox"/> Yes <input type="checkbox"/> No
MRu-IE.12	Broadband non-locking shift		M	4.5.4	<input type="checkbox"/> Yes <input type="checkbox"/> No

Table A.7: Parameters in all messages transmitted by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MRu-IE.1	Protocol discriminator		M	3.1, 3.2, 4.2	<input type="checkbox"/> Yes <input type="checkbox"/> No
MRu-IE.2	Call reference		M	3.1, 3.2, 4.3	<input type="checkbox"/> Yes <input type="checkbox"/> No
MRu-IE.3	Message type		M	3.1, 3.2, 4.4.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
MRu-IE.4	Message length		M	3.1, 3.2, 4.4.2	<input type="checkbox"/> Yes <input type="checkbox"/> No
MRu-IE.11	Broadband locking shift		O	4.5.3	<input type="checkbox"/> Yes <input type="checkbox"/> No
MRu-IE.12	Broadband non-locking shift		O	4.5.4	<input type="checkbox"/> Yes <input type="checkbox"/> No

A.7.4.1 Parameters in messages received by the user

Indicating support for an item in the tables in this clause states that the implementation has the ability to process the Parameters listed in the specified received messages.

Table A.8: Parameters in ALERTING received by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MRu.1-IE.19	Connection identifier	MRu.1 NOT MRu.1	M N/A	3.1.1, 3.2.1	[]Yes []No []N/A
MRu.1-IE.9	Narrowband bearer capability	MCu.9 AND MRu.1 NOT (MCu.9 AND MRu.1)	O N/A	3.2.1	[]Yes []No []N/A
MRu.1-IE.10	Narrowband high layer compatibility	MCu.9 AND MRu.1 NOT (MCu.9 AND MRu.1)	O N/A	3.2.1	[]Yes []No []N/A
MRu.1-IE.26	Notification indicator	MRu.1 NOT MRu.1	M N/A	3.1.1, 3.2.1	[]Yes []No []N/A
MRu.1-IE.28	Progress indicator	MCu.9 AND MRu.1 NOT (MCu.9 AND MRu.1)	M N/A	3.2.1	[]Yes []No []N/A
MRu.1-IE.31	Broadband report type	MCu.9 AND MRu.1 NOT (MCu.9 AND MRu.1)	O N/A	4.5	[]Yes []No []N/A

Table A.9: Parameters in CALL PROCEEDING received by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MRu.2-IE.19	Connection identifier	MRu.2 NOT MRu.2	M N/A	3.1.2, 3.2.2	[]Yes []No []N/A
MRu.2-IE.9	Narrowband bearer capability	MCu.9 AND MRu.2 NOT (MCu.9 AND MRu.2)	O N/A	3.2.2	[]Yes []No []N/A
MRu.2-IE.10	Narrowband high layer compatibility	MCu.9 AND MRu.2 NOT (MCu.9 AND MRu.2)	O N/A	3.2.2	[]Yes []No []N/A
MRu.2-IE.26	Notification indicator	MRu.2 NOT MRu.2	M N/A	3.1.2, 3.2.2	[]Yes []No []N/A
MRu.2-IE.28	Progress indicator	MCu.9 AND MRu.2 NOT (MCu.9 AND MRu.2)	M N/A	3.2.2	[]Yes []No []N/A

Table A.10: Parameters in CONNECT received by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MRu.3-IE.17	AAL parameters	MRu.3 NOT MRu.3	M N/A	3.1.3, 3.2.3	[]Yes []No []N/A
MRu.3-IE.23	Broadband low layer information	MRu.3 NOT MRu.3	M N/A	3.1.3	[]Yes []No []N/A
MRu.3-IE.19	Connection identifier	MRu.3 NOT MRu.3	M N/A	3.1.3, 3.2.3	[]Yes []No []N/A
MRu.3-IE.25	End-to-end transit delay	MRu.3 NOT MRu.3	M N/A	3.1.3, 3.2.3	[]Yes []No []N/A
MRu.3-IE.29	Narrowband bearer capability	MCu.9 AND MRu.3 NOT (MCu.9 AND MRu.3)	O N/A	3.2.3	[]Yes []No []N/A
MRu.3-IE.9	Narrowband high layer compatibility	MCu.9 AND MRu.3 NOT (MCu.9 AND MRu.3)	O N/A	3.2.3	[]Yes []No []N/A
MRu.3-10	Narrowband low layer compatibility	MCu.9 AND MRu.3 NOT (MCu.9 AND MRu.3)	M N/A	3.2.3	[]Yes []No []N/A
MRu.3-IE.26	Notification indicator	MRu.3 NOT MRu.3	M N/A	3.1.3, 3.2.3	[]Yes []No []N/A
MRu.3-IE.20	OAM traffic descriptor	MRu.3 NOT MRu.3	M N/A	3.1.3, 3.2.3	[]Yes []No []N/A
MRu.3-IE.28	Progress indicator	MCu.9 AND MRu.3 NOT (MCu.9 AND MRu.3)	M N/A	3.2.3	[]Yes []No []N/A
MRu.3-IE.31	Broadband report type	MCu.9 AND MRu.3 NOT (MCu.9 AND MRu.3)	O N/A	4.5	[]Yes []No []N/A

Table A.11: Parameters in CONNECT ACKNOWLEDGE received by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MRu.4-IE.26	Notification indicator	MRu 4 NOT MRu 4	M N/A	3.1.4	[]Yes []No []N/A

Table A.12: Parameters in CONNECTION AVAILABLE received by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MRu.5-IE.26	Notification indicator	MRu.5 NOT MRu.5	M N/A	4.5	[]Yes []No []N/A
MRu.5-IE31	Broadband report type	MRu.5 NOT MRu.5	M N/A	4.5	[]Yes []No []N/A

Table A.13: Parameters in INFORMATION received by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MRu.6-IE.13	Broadband sending complete	MRu 5 NOT MRu 5	M N/A	3.2.4	[]Yes []No []N/A
MRu.6-IE.5	Called party number	MRu 5 NOT MRu 5	M N/A	3.2.4	[]Yes []No []N/A

Table A.14: Parameters in NOTIFY received by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MRu7-IE.26	Notification indicator		M	3.1.10	[]Yes []No

Table A.15: Parameters in PROGRESS received by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MRu8-IE.29	Narrowband bearer capability	MRu 7 NOT MRu 7	O N/A	3.2.5	[]Yes []No []N/A
MRu8-10	Narrowband high layer compatibility	MRu 7 NOT MRu 7	O N/A	3.2.5	[]Yes []No []N/A
MRu8-IE.26	Notification indicator	MRu 7 NOT MRu 7	M N/A	3.2.5	[]Yes []No []N/A
MRu8-IE.28	Progress indicator	MRu 7 NOT MRu 7	M N/A	3.2.5	[]Yes []No []N/A

Table A.16: Parameters in RELEASE received by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MRu9-IE.30	Cause		M	3.1.5, 3.2.6	[]Yes []No
MRu9-IE.26	Notification indicator		M	3.1.5, 3.2.6	[]Yes []No
MR9-IE.28	Progress indicator		M	3.2.6	[]Yes []No

Table A.17: Parameters in RELEASE COMPLETE received by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MRu10-IE.30	Cause		M	3.1.6	[]Yes []No

Table A.18: Parameters in RESTART received by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MRu11-IE.19	Connection identifier		M	3.3.1	[]Yes []No
MRu11-IE.8	Restart indicator		M	3.3.1	[]Yes []No

Table A.19: Parameters in RESTART ACKNOWLEDGE received by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MRu12-IE.19	Connection identifier		M	3.3.2	[]Yes []No
MRu12-IE.8	Restart indicator		M	3.3.2	[]Yes []No

Table A.20: Parameters in SETUP received by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MRu13-IE.14	Broadband repeat indicator	MRu.13 NOT MRu 13	O N/A	3.1.7, 3.2.7	[]Yes []No []N/A
MRu13-IE.17	AAL parameters	MRu.13 NOT MRu 13	M N/A	3.1.7, 3.2.7	[]Yes []No []N/A
MRu13-IE.	ATM traffic descriptor	MRu.13 NOT MRu.13	M N/A	3.1.7, 3.2.7	[]Yes []No []N/A
MRu13-IE.22	Broadband bearer capability	MRu.13 NOT MRu.13	M N/A	3.1.7, 3.2.7	[]Yes []No []N/A
MRu13-IE.24	Broadband high layer information	MRu.13 NOT MTu.13	M N/A	3.1.7	[]Yes []No []N/A
MRu13-IE.14	Broadband repeat indicator	MCu.10 AND MRU 13 NOT (MCu.10 AND MRU 13)	M N/A	3.1.7, annex C	[]Yes []No []N/A
MRu13-IE.23	Broadband low layer information	MRu 13 NOT MRu 13	M N/A	3.1.7	[]Yes []No []N/A
MRu13-IE.5	Called party number	MRu 13 NOT MRu 13	M N/A	3.1.7, 3.2.7	[]Yes []No []N/A
MRu13-IE.6	Called party subaddress	MRu 13 NOT MRu 13	M N/A	3.1.7, 3.2.7	[]Yes []No []N/A
MRu13-IE.15	Calling party number		I	3.1.7, 3.2.7	[]Yes []No
MRu13-IE.16	Calling party subaddress		I	3.1.7, 3.2.7	[]Yes []No
MRu13-IE.19	Connection identifier	MRu 13 NOT MRu 13	M N/A	3.1.7, 3.2.7	[]Yes []No []N/A
MRu13-IE.25	End-to-end transit delay	MRu 13 NOT MRu 13	M N/A	3.1.7, 3.2.7	[]Yes []No []N/A
MRu13-IE.29	Narrowband bearer capability	MCu.9 AND MRu 13 NOT (MCu.9 AND MRu 13)	M N/A	3.2.7	[]Yes []No []N/A
MRu13-IE.10	Narrowband high layer compatibility	MCu.9 AND MRu 12 NOT (MCu.9 AND MRu 13)	M N/A	3.2.7	[]Yes []No []N/A
MRu.13-IE.9	Narrowband low layer compatibility	MCu.9 AND MRu 13 NOT (MCu.9 AND MRu 13)	M N/A	3.2.7	[]Yes []No []N/A
MRu.13-IE.26	Notification indicator	MRu 13 NOT MRu 13	M N/A	3.1.7, 3.2.7	[]Yes []No []N/A
MRu.13-IE.20	OAM traffic descriptor	MRu 13 NOT MRu 13	M N/A	3.1.7, 3.2.7	[]Yes []No []N/A
MRu.13-IE.28	Progress indicator	MCu.9 AND MRu 13 NOT (MCu.9 AND MRu 13)	M N/A	3.2.7	[]Yes []No []N/A
MRu.13-IE.21	QOS parameter	MRu 13 NOT MRu 13	M N/A	3.1.7, 3.2.7	[]Yes []No []N/A
MRu.13-IE.13	Broadband sending complete	MRu 13 NOT MRu 13	O N/A	3.1.7, 3.2.7	[]Yes []No []N/A
MRu.13-IE.7	Transit network selection		X		[]Yes []No
MRu.13-IE.31	Broadband report type	MCu.9 AND MRu 13 NOT (MCu.9 AND MRu 13)	O N/A	4.5	[]Yes []No []N/A

Table A.21: Parameters in SETUP ACKNOWLEDGE received by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MRu14-IE.1	Connection identifier	MRu.14 NOT MRu.14	M N/A	3.2.8	[]Yes []No []N/A
MRu14-IE.26	Notification indicator	MRu.14 NOT MRu.13	M N/A	3.2.8	[]Yes []No []N/A
MRu14-IE.28	Progress indicator	MRu.14 NOT MRu.14	M N/A	3.2.8	[]Yes []No []N/A

Table A.22: Parameters in STATUS received by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MRu15-IE21	Call state		M	3.1.8	[]Yes []No
MRu15-IE24	Cause		M	3.1.8	[]Yes []No

A.7.4.2 Parameters in messages transmitted by the user

Indicating support for an item in the tables in this clause states that the implementation has the ability to generate, and to transmit in the specified message, the Parameters listed. Such support does not necessarily mean that the indicated Parameter is included in every instance of the transmitted message.

Table A.23: Parameters in ALERTING transmitted by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MTu.1-IE.19	Connection identifier	SCu.5.1 NOT SCu.5.1	M N/A	3.1.1, 3.2.1	[]Yes []No []N/A
MTu.1-IE.29	Narrowband bearer capability	MCu.9 AND MTu.MTu.1 NOT (MCu.9 AND MTu.1)	O N/A	3.2.1	[]Yes []No []N/A
MTu.1-IE.10	Narrowband high layer compatibility	MCu.9 AND MTu.1 NOT (MCu.9 AND MTu.1)	O N/A	3.2.1	[]Yes []No []N/A
MTu.1-IE.26	Notification indicator	MTu.1 NOT MTu.1	O N/A	3.1.1, 3.2.1	[]Yes []No []N/A
MTu.1-IE.28	Progress indicator	MCu.9 AND MTu.1 NOT (MCu.9 AND MTu.1)	O N/A	3.2.1	[]Yes []No []N/A
MTu.1-IE.31	Broadband report type	MCu.9 AND MTu.1 NOT (MCu.9 AND MTu.1)	O N/A	4.5	[]Yes []No []N/A

Table A.24: Parameters in CALL PROCEEDING transmitted by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MTu.2-IE.19	Connection identifier	SCu.5.2 NOT SCu.5.2	M O	3.1.2, 3.2.2	[]Yes []No
MTu.2-IE.29	Narrowband bearer capability	MCu.9 AND MTu2 NOT (MCu.9 AND MTu2)	O N/A	3.2.2	[]Yes []No []N/A
MTu.2-IE.10	Narrowband high layer compatibility	MCu.9 AND MTu.2 NOT (MCu.9 AND MTu.2)	O N/A	3.2.2	[]Yes []No []N/A
MTu.2-IE.26	Notification indicator	MTu.2 NOT MTu.2	O N/A	3.1.2, 3.2.2	[]Yes []No []N/A
MTu.2-IE.28	Progress indicator	MCu.9 AND MTu.2 NOT (MCu.9 AND MTu.2)	O N/A	3.2.2	[]Yes []No []N/A

Table A.25: Parameters in CONNECT transmitted by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MTu.3-IE.17	AAL parameters	MTu.3 NOT MTu.3	O N/A	3.1.3, 3.2.3	[]Yes []No []N/A
MTu.3-IE.23	Broadband low layer information	MTu.3 NOT MTu.3	O N/A	3.1.3	[]Yes []No []N/A
MTu.3-IE.19	Connection identifier	SCu.5.3 NOT SCu.5.3	M N/A	3.1.3, 3.2.3	[]Yes []No []N/A
MTu.3-IE.25	End-to-end transit delay	MTu.3 NOT MTu.3	M N/A	3.1.3, 3.2.3	[]Yes []No []N/A
MTu.3-IE.29	Narrowband bearer capability	MCu.9 AND MTu.3 NOT (MCu.9 AND MTu.3)	O N/A	3.2.3	[]Yes []No []N/A
MTu.3-IE.10	Narrowband high layer compatibility	MCu.9 AND MTu.3 NOT (MCu.9 AND MTu.3)	O N/A	3.2.3	[]Yes []No []N/A
MTu.3-IE.9	Narrowband low layer compatibility	MCu.9 AND MTu.3 NOT (MCu.9 AND MTu.3)	O N/A	3.2.3	[]Yes []No []N/A
MTu.3-IE.26	Notification indicator	MTu.3 NOT MTu.3	O N/A	3.1.3, 3.2.3	[]Yes []No []N/A
MTu.3-IE.20	OAM traffic descriptor	MTu.3 NOT MTu.3	M N/A	3.1.3, 3.2.3	[]Yes []No []N/A
MTu.3-IE.28	Progress indicator	MCu.9 AND MTu.3 NOT (MCu.9 AND MTu.3)	O N/A	3.2.3	[]Yes []No []N/A
MTu.3-IE.31	Broadband report type	MCu.9 AND MTu.3 NOT (MCu.9 AND MTu.3)	O N/A	4.5	[]Yes []No []N/A

Table A.26: Parameters in CONNECT ACKNOWLEDGE transmitted by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MTu.4-IE.26	Notification indicator	MTu.4 NOT MTu.4	O N/A	3.1.4	[]Yes []No []N/A

Table A.27: Parameters in CONNECTION AVAILABLE transmitted by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MTu.5-IE.26	Notification indicator	MTu. 5 NOT MTu. 4	O N/A	3.1.11	[]Yes []No []N/A
MTu.5-IE.31	Broadband report type	MTu. 5 NOT MTu. 5	O N/A	3.1.11	[]Yes []No []N/A

Table A.28: Parameters in INFORMATION transmitted by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MTu.6-IE.13	Broadband sending complete	MTu.6 NOT MTu.6	O N/A	3.2.4	[]Yes []No []N/A
MTu.6-IE.5	Called party number	MTu.6 NOT MTu.6	M N/A	3.2.4	[]Yes []No []N/A

Table A.29: Parameters in NOTIFY transmitted by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MTu.7-IE.26	Notification indicator		M	3.1.10	[]Yes []No

Table A.30: Parameters in PROGRESS transmitted by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MTu.8-IE.29	Narrowband bearer capability	MTu.8 NOT MTu.8	O N/A	3.2.5	[]Yes []No []N/A
MTu.8-IE.10	Narrowband high layer compatibility	MTu.8 NOT MTu.8	O N/A	3.2.5	[]Yes []No []N/A
MTu.8-IE.26	Notification indicator	MTu.8 NOT MTu.8	O N/A	3.2.5	[]Yes []No []N/A
MTu.8-IE.28	Progress indicator	MTu.8 NOT MTu.8	M N/A	3.2.5	[]Yes []No []N/A

Table A.31: Parameters in RELEASE transmitted by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MTu.9-IE.30	Cause		M	3.1.5, 3.2.6	[]Yes []No
MTu.9-IE.26	Notification indicator		O	3.1.5, 3.2.6	[]Yes []No
MTu.9-IE.28	Progress indicator		O	3.2.6	[]Yes []No

Table A.32: Parameters in RELEASE COMPLETE transmitted by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MTu.10-IE.30	Cause		M	3.1.6, note 2	[]Yes []No

Table A.33: Parameters in RESTART transmitted by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MTu.11-IE.19	Connection identifier		M	3.3.1	[]Yes []No
MTu.11-IE.8	Restart indicator		M	3.3.1	[]Yes []No

Table A.34: Parameters in RESTART ACKNOWLEDGE transmitted by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MTu.12-IE.19	Connection identifier		M	3.3.2	[]Yes []No
MTu.12-IE.8	Restart indicator		M	3.3.2	[]Yes []No

Table A.35: Parameters in SETUP transmitted by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MTu.13-IE.14	Broadband repeat indicator	MCu.10 AND MTu.13 NOT (MCu.10 AND MTu.13)	O N/A	3.1.7, 3.2.7	[]Yes []No []N/A
MTu.13-IE.17	AAL parameters	MTu.13 NOT MTu.13	O N/A	3.1.7, 3.2.7	[]Yes []No []N/A
MTu.13-IE.18	ATM traffic descriptor	MTu.13 NOT MTu.13	M N/A	3.1.7, 3.2.7	[]Yes []No []N/A
MTu.13-IE.22	Broadband bearer capability	MTu.13 NOT MTu.13	M N/A	3.1.7, 3.2.7	[]Yes []No []N/A
MTu.13-IE.24	Broadband high layer information	MTu.13 NOT MTu.13	O N/A	3.1.7	[]Yes []No []N/A
MTu.13-IE.14	Broadband repeat indicator	MCu.10 AND MTu.13 NOT (MCu.10 AND MTu.13)	O N/A	3.1.7, annex C	[]Yes []No []N/A
MTu.13-IE.23	Broadband low layer information	MTu.13 NOT MTu.13	O N/A	3.1.7	[]Yes []No []N/A
MTu.13-IE.5	Called party number	SCu2 NOT SCu2	O M	3.1.7, 3.2.7	[]Yes []No
MTu.13-IE.6	Called party subaddress	MTu.13 NOT MTu.13	O N/A	3.1.7, 3.2.7	[]Yes []No []N/A

Item	Parameter	Conditions for status	Status	Reference	Support
MTu.13-IE.15	Calling party number	MTu.13 NOT MTu.13	O N/A	3.1.7, 3.2.7	[]Yes []No []N/A
MTu.13-IE.16	Calling party subaddress	MTu.13 NOT MTu.13	O N/A	3.1.7, 3.2.7	[]Yes []No []N/A
MTu.13-IE.19	Connection identifier	MCu.1.1 NOT MCu.1.1	M O	3.1.7, 3.2.7	[]Yes []No
MTu.13-IE.25	End-to-end transit delay	MTu.13 NOT MTu.13	O N/A	3.1.7, 3.2.7	[]Yes []No []N/A
MTu.13-IE.29	Narrowband bearer capability	MCu.9 NOT MCu.9	M N/A	3.2.7	[]Yes []No []N/A
MTu.13-IE.10	Narrowband high layer compatibility	MCu.9 NOT MCu.9	O N/A	3.2.7	[]Yes []No []N/A
MTu.13-IE.9	Narrowband low layer compatibility	MCu.9 NOT MCu.9	O N/A	3.2.7	[]Yes []No []N/A
MTu.13-IE.26	Notification indicator	MTu.13 NOT MTu.13	O N/A	3.1.7, 3.2.7	[]Yes []No []N/A
MTu.13-IE.20	OAM traffic descriptor	MTu.13 NOT MTu.13	O N/A	3.1.7, 3.2.7	[]Yes []No []N/A
MTu.13-IE.28	Progress indicator	MCu.9 NOT MCu.9	O N/A	3.2.7	[]Yes []No []N/A
MTu.13-IE.21	QOS parameter	MTu.13 NOT MTu.13	M N/A	3.1.7, 3.2.7	[]Yes []No []N/A
MTu.13-IE.13	Broadband sending complete	MTu.13 NOT MTu.13	M N/A	3.1.7, 3.2.7	[]Yes []No []N/A
MTu.13-IE.7	Transit network selection	MTu.13 NOT MTu.13	O N/A	3.1.7, 3.2.7	[]Yes []No []N/A
MTu.13-IE.31	Broadband report type	MCu.9 AND MTu.13 NOT (MCu.9 AND MTu.13)	O N/A	4.5	[]Yes []No []N/A

Table A.36: Parameters in SETUP ACKNOWLEDGE transmitted by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MTu.14-IE.19	Connection identifier	MTu.14 NOT MTu.14	M N/A	3.2.8	[]Yes []No []N/A
MTu.14-IE.26	Notification indicator	MTu.14 NOT MTu.14	O N/A	3.2.8	[]Yes []No []N/A
MTu.14-IE.28	Progress indicator	MTu.14 NOT MTu.14	O N/A	3.2.8	[]Yes []No []N/A

Table A.37: Parameters in STATUS transmitted by the user

Item	Parameter	Conditions for status	Status	Reference	Support
MTu.15-IE.27	Call state		M	3.1.8	[]Yes []No
MTu.15-IE.30	Cause		M	3.1.8	[]Yes []No

A.7.5 Timers

Indicating support for an item in table A.38 states that the implementation has a timer that operates in accordance with the description in clause 7 and with the relevant behaviour specified in clauses 5 and 6 of ITU-T Recommendation Q.2931 as modified by EN 300 443-1.

The table indicates the permitted range of values for each timer. The supplier shall state the values supported by their implementation.

Table A.38: Timers in the user role

Item	Timer: Does the implementation support...?	Conditions for status	Status	Reference	Support	Values Allowed	Value Supported
TMu.1	T301	MCu.1 NOT MCu.1	O N/A	table 7.3	[]Yes []No []N/A	minim. 3 min	
TMu.2	T302	SCu.4 NOT SCu.4	M N/A	table 7.4	[]Yes []No []N/A	10 - 15 s	
TMu.3	T303	MCu.1 NOT MCu.1	M N/A	table 7.3	[]Yes []No []N/A	4 s	
TMu.4	T304	SCu.2 NOT SCu.2	O N/A	table 7.4	[]Yes []No []N/A	30 s	
TMu.5	T308		M	table 7.3	[]Yes []No	30 s	
TMu.6	T309		M	table 7.3	[]Yes []No	10 s	
TMu.7	T310	MCu.1 NOT MCu.1	M N/A	table 7.3	[]Yes []No []N/A	30 - 120 s	
TMu.8	T313	MCu.2 NOT MCu.2	M N/A	table 7.3	[]Yes []No []N/A	4 s	
TMu.9	T316		M	table 7.3	[]Yes []No	120 s	
TMu.10	T317		M	table 7.3	[]Yes []No	< T316	
TMu.11	T322		M	table 7.3	[]Yes []No	4 s	

A.7.6 Structure of Parameters received

These tables are to be completed in order to evaluate the likelihood of successful interoperation of two implementations and to improve the conformance statement.

A.7.6.1 Broadband locking shift

Table A.39: Broadband locking shift Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERu. 11.1	New codeset identification	M		[]Yes []No
	1. Codeset 4	M	4	[]Yes []No
	2. Codeset 5	M	5	[]Yes []No
	3. Codeset 6	M	6	[]Yes []No
	4. Codeset 7	M	7	[]Yes []No

A.7.6.2 Broadband non-locking shift

Table A.40: Broadband non-locking shift Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERu.12.1	Temporary codeset identification	M		[]Yes []No
	1. Codeset 0	M	0	[]Yes []No
	2. Codeset 4	M	4	[]Yes []No
	3. Codeset 5	M	5	[]Yes []No
	4. Codeset 6	M	6	[]Yes []No
	5. Codeset 7	M	7	[]Yes []No

A.7.6.3 ATM adaptation layer parameters

Table A.41: ATM adaptation layer parameters Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERu.17.1	AAL type	M		[]Yes []No
	1. AAL for voice	O	0	[]Yes []No
	2. AAL type 1	O	1	[]Yes []No
	3. AAL type 2	O	2	[]Yes []No
	4. AAL type ¾	O	3	[]Yes []No
	5. AAL type 5	O	5	[]Yes []No
	6. User defined AAL	O	16	[]Yes []No
IERu.17.2	Subtype	O		[]Yes []No
	1. Null	O	0	[]Yes []No
	2. Voice-band signal transport based on 64 kbit/s	O	1	[]Yes []No
	3. Circuit transport	O	2	[]Yes []No
	4. High-quality audio signal transport	O	4	[]Yes []No
	5. Video signal transport	O	5	[]Yes []No
IERu.17.3	CBR rate	O		[]Yes []No
	1. 64 kbit/s	O	1	[]Yes []No
	2. 1 544 kbit/s	O	4	[]Yes []No
	3. 6 312 kbit/s	O	5	[]Yes []No
	4. 32 064 kbit/s	O	6	[]Yes []No
	5. 44 736 kbit/s	O	7	[]Yes []No
	6. 97 728 kbit/s	O	8	[]Yes []No
	7. 2 048 kbit/s	O	16	[]Yes []No
	8. 8 448 kbit/s	O	17	[]Yes []No
	9. 34 368 kbit/s	O	18	[]Yes []No
	10. 139 264 kbit/s	O	19	[]Yes []No
	11. n × 64 kbit/s	O	64	[]Yes []No
12. n × 8 kbit/s	O	65	[]Yes []No	
IERu.17.4	Source clock frequency recovery method	O		[]Yes []No
	1. Null	O	0	[]Yes []No
	2. Synchronous residual time stamp method	O	1	[]Yes []No
	3. Adaptive clock method	O	2	[]Yes []No
IERu.17.5	Error correction method	O		[]Yes []No
	1. Null	O	0	[]Yes []No
	2. FEC for loss sensitive signal transport	O	1	[]Yes []No
	3. FEC for delay sensitive signal transport	O	2	[]Yes []No
IERu.17.6	Structured data transfer block size	O		[]Yes []No
IERu.17.7	Partially filled cells method	O		[]Yes []No
IERu.17.8	Forward maximum CPCS-SDU size	O		[]Yes []No
IERu.17.9	Backward maximum CPCS-SDU size	O		[]Yes []No
IERu.17.10	MID range	O		[]Yes []No
IERu.17.11	SSCS type	O		[]Yes []No
	1. Null	O	0	[]Yes []No
	2. Data SCS based on SSCOP (assured)	O	1	[]Yes []No
	3. Data SCS based on SSCOP (non-assured)	O	2	[]Yes []No
	4. Frame relay SCS	O	4	[]Yes []No
IERu.17.12	User defined AAL information	O		[]Yes []No

A.7.6.4 ATM traffic descriptor

Table A.42: ATM traffic descriptor Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERu.18.1	Forward peak cell rate (CLP = 0)	O	N/A	[]Yes []No
	Backward peak cell rate (CLP = 0)	O	N/A	[]Yes []No
	Forward peak cell rate (CLP = 0 + 1)	M	N/A	[]Yes []No
	Backward peak cell rate (CLP = 0 + 1)	M	N/A	[]Yes []No

A.7.6.5 Broadband bearer capability

See PICS proforma for EN 301 068-2.

A.7.6.6 Broadband high layer information

Table A.43: Broadband high layer Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERu.24.1	High layer information type	M		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. ISO/IEC	<input type="checkbox"/>	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. User specific	<input type="checkbox"/>	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. Vendor specific application identifier	<input type="checkbox"/>	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
	4. Reference to ITU-T SG 1 B-ISDN teleservice recommendation	<input type="checkbox"/>	4	<input type="checkbox"/> Yes <input type="checkbox"/> No

A.7.6.7 Broadband low layer information

Table A.44: Broadband low layer Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERu.23.1	User information layer 2 protocol	<input type="checkbox"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. Basic mode ISO 1745	<input type="checkbox"/>	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. ITU-T Recommendation Q.921 (I.441)	<input type="checkbox"/>	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. ITU-T Recommendation X.25 link layer	<input type="checkbox"/>	6	<input type="checkbox"/> Yes <input type="checkbox"/> No
	4. ITU-T Recommendation X.25 multilink	<input type="checkbox"/>	7	<input type="checkbox"/> Yes <input type="checkbox"/> No
	5. Extended LAPB; for half duplex operation	<input type="checkbox"/>	8	<input type="checkbox"/> Yes <input type="checkbox"/> No
	6. HDLC ARM	<input type="checkbox"/>	9	<input type="checkbox"/> Yes <input type="checkbox"/> No
	7. HDLC NRM	<input type="checkbox"/>	10	<input type="checkbox"/> Yes <input type="checkbox"/> No
	8. HDLC ABM	<input type="checkbox"/>	11	<input type="checkbox"/> Yes <input type="checkbox"/> No
	9. LAN logical link control (ISO/IEC 8802-2)	<input type="checkbox"/>	12	<input type="checkbox"/> Yes <input type="checkbox"/> No
	10. ITU-T Recommendation X.75 SLP	<input type="checkbox"/>	13	<input type="checkbox"/> Yes <input type="checkbox"/> No
	11. ITU-T Recommendation Q.922	<input type="checkbox"/>	14	<input type="checkbox"/> Yes <input type="checkbox"/> No
	12. User specified	<input type="checkbox"/>	16	<input type="checkbox"/> Yes <input type="checkbox"/> No
13. ISO/IEC 7776 DTE-DTE operation	<input type="checkbox"/>	17	<input type="checkbox"/> Yes <input type="checkbox"/> No	
IERu.23.2	Mode of operation (octet 6a)	<input type="checkbox"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. Normal mode	<input type="checkbox"/>	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. Extended mode	<input type="checkbox"/>	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
IERu.23.3	ITU-T Recommendation Q.33 use	<input type="checkbox"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
IERu.23.4	User specified layer 2 protocol information	<input type="checkbox"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
IERu.23.5	Window size	<input type="checkbox"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
IERu.23.6	User information layer 3 protocol	<input type="checkbox"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. ITU-T Recommendation X.25, packet layer	<input type="checkbox"/>	6	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. ISO/IEC 8208	<input type="checkbox"/>	7	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. ITU-T Recommendation X.223 or ISO/IEC 8878	<input type="checkbox"/>	8	<input type="checkbox"/> Yes <input type="checkbox"/> No
	4. ITU-T Recommendation X.233 or ISO/IEC 8473-1	<input type="checkbox"/>	9	<input type="checkbox"/> Yes <input type="checkbox"/> No
	5. ITU-T Recommendation T.70	<input type="checkbox"/>	10	<input type="checkbox"/> Yes <input type="checkbox"/> No
	6. ISO/IEC TR 9577	<input type="checkbox"/>	11	<input type="checkbox"/> Yes <input type="checkbox"/> No
	7. ITU-T Recommendation H.310	<input type="checkbox"/>	12	<input type="checkbox"/> Yes <input type="checkbox"/> No
	8. ITU-T Recommendation H.321	<input type="checkbox"/>	13	<input type="checkbox"/> Yes <input type="checkbox"/> No
9. User specified	<input type="checkbox"/>	16	<input type="checkbox"/> Yes <input type="checkbox"/> No	
IERu.23.7	Mode of operation (octet 7a)	<input type="checkbox"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. Normal packet sequence numbering	<input type="checkbox"/>	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. Extended packet sequence numbering	<input type="checkbox"/>	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
IERu.23.8	User specified layer 3 protocol information	<input type="checkbox"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERu.23.9	Default packet size	O		[]Yes []No
	1. 16 octets	O	4	[]Yes []No
	2. 32 octets	O	5	[]Yes []No
	3. 64 octets	O	6	[]Yes []No
	4. 128 octets	O	7	[]Yes []No
	5. 256 octets	O	8	[]Yes []No
	6. 512 octets	O	9	[]Yes []No
	7. 1 024 octets	O	10	[]Yes []No
	8. 2 048 octets	O	11	[]Yes []No
9. 4 096 octets	O	12	[]Yes []No	
IERu.23.10	Packet window size	O	1-127	[]Yes []No
IERu.23.11	Additional layer 3 protocol information for ISO/IEC TR 9577	O		[]Yes []No

A.7.6.8 Call state

Table A.45: Call state Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERu.27.1	Call state value	M		[]Yes []No
	1. Null	M	0	[]Yes []No
	2. Call initiated	M	1	[]Yes []No
	3. Overlap sending	O	2	[]Yes []No
	4. Outgoing call proceeding	M	3	[]Yes []No
	5. Call delivered	M	4	[]Yes []No
	6. Call present	M	6	[]Yes []No
	7. Call received	M	7	[]Yes []No
	8. Connect request	M	8	[]Yes []No
	9. Incoming call proceeding	M	9	[]Yes []No
	10. Active	M	10	[]Yes []No
	11. Release request	M	11	[]Yes []No
	12. Release indication	M	12	[]Yes []No
	13. Overlap receiving	O	25	[]Yes []No
	14. Restart null	M	0	[]Yes []No
	15. Restart request	M	61	[]Yes []No
16. Restart	M	62	[]Yes []No	

A.7.6.9 Called party number

Table A.46: Called party number Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERu.5.1	Type of number	M		[]Yes []No
	1. Unknown	O	0	[]Yes []No
	2. International	O	1	[]Yes []No
	3. National	O	2	[]Yes []No
	4. Network specific	O	3	[]Yes []No
	5. Subscriber	O	4	[]Yes []No
IERu.5.2	6. Abbreviated	O	6	[]Yes []No
	Addressing/numbering plan identification	M		[]Yes []No
	1. Unknown	O	0	[]Yes []No
	2. ISDN numbering plan	O	1	[]Yes []No
	3. ATM end system address	O	2	[]Yes []No
4. Data numbering plan	O	3	[]Yes []No	
5. Private numbering plan	O	9	[]Yes []No	

A.7.6.10 Called party subaddress

Table A.47: Called party subaddress Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERu.6.1	Type of subaddress	M		[]Yes []No
	1. NSAP	O	0	[]Yes []No
	2. User specified ATM endsystem address	O	1	[]Yes []No
	3. ATM end system address	O	2	[]Yes []No
IERu.6.2	Odd/even indicator	M		[]Yes []No
	1. Even number of address signals	O	0	[]Yes []No
	2. Odd number of address signals	O	1	[]Yes []No

A.7.6.11 Calling party number

Table A.48: Calling party number Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERu.15.1	Type of number	M		[]Yes []No
	1. Unknown	O	0	[]Yes []No
	2. International	O	1	[]Yes []No
	3. National	O	2	[]Yes []No
	4. Network specific	O	3	[]Yes []No
	5. Subscriber	O	4	[]Yes []No
	6. Abbreviated	O	6	[]Yes []No
IERu.15.2	Addressing/numbering plan identification	M		[]Yes []No
	1. Unknown	O	0	[]Yes []No
	2. ISDN numbering plan	O	1	[]Yes []No
	3. ATM end system address	O	2	[]Yes []No
	4. Data numbering plan	O	3	[]Yes []No
	5. Private numbering plan	O	9	[]Yes []No
IERu.15.3	Presentation indicator	O		[]Yes []No
	1. Presentation allowed	O	0	[]Yes []No
	2. Presentation restricted	O	1	[]Yes []No
	3. Number not available	O	2	[]Yes []No
IERu.15.4	Screening indicator	O		[]Yes []No
	1. User provided, not screened	O	0	[]Yes []No
	2. User provided, verified and passed	O	1	[]Yes []No
	3. User provided, verified and failed	O	2	[]Yes []No
	4. Network provided	O	3	[]Yes []No

A.7.6.12 Calling party subaddress

Table A.49: Calling party subaddress Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERu.16.1	Type of subaddress	M		[]Yes []No
	1. NSAP	O	0	[]Yes []No
	2. ATM endsystem address	O	1	[]Yes []No
	3. User specified	O	2	[]Yes []No
IERu.16.2	Odd/even indicator	M		[]Yes []No
	1. Even number of address signals	O	0	[]Yes []No
	2. Odd number of address signals	O	1	[]Yes []No

A.7.6.13 Connection identifier

Table A.50: Connection identifier Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERu.19.1	VP-associated signalling	M		[]Yes []No
	1. VP-associated signalling	O	0	[]Yes []No
	2. Explicit indication of VPCI	M	1	[]Yes []No
IERu.19.2	Preferred/exclusive	M		[]Yes []No
	1. Exclusive VPCI, exclusive VCI	O	0	[]Yes []No
	2. Exclusive VPCI, any VCI	O	1	[]Yes []No

A.7.6.14 End-to-end transit delay

The end-to-end transit delay is now specified in clause 8.2.1 of ITU-T Recommendation Q.2965.2 in table end-to-end transit delay parameter.

A.7.6.15 Quality of service parameter

The quality of service parameter is now specified in ITU-T Recommendation Q.2965.1 in table QOS parameter.

A.7.6.16 Restart indicator

Table A.51: Restart indicator Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERu.8.1	Class	M		[]Yes []No
	1. Indicated virtual channel	O	0	[]Yes []No
	2. All VCs in indicated VPC controlled by the signalling VC	O	1	[]Yes []No
	3. All VCs controlled by the layer 3 entity	O	2	[]Yes []No

A.7.6.17 OAM traffic descriptor

Table A.52: OAM traffic descriptor Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERu.20.1	Shaping indicator	M		[]Yes []No
	1. No user requirement	O	0	[]Yes []No
	2. Aggregate shaping not allowed	O	1	[]Yes []No
IERu.20.2	Compliance indicator	M		[]Yes []No
	1. Optional end-to-end OAM F5 flow	O	0	[]Yes []No
	2. Mandatory end-to-end OAM F5 flow	O	1	[]Yes []No
IERu.20.3	User-network fault management indicator	M		[]Yes []No
	1. No user-originated indications	O	0	[]Yes []No
	2. Use of user-originated indications	O	1	[]Yes []No
IERu.20.4	Forward end-to-end OAM F5 flow indicator	M		[]Yes []No
	1. 0 %	O	0	[]Yes []No
	2. 0,1 %	O	1	[]Yes []No
	3. 1 %	O	4	[]Yes []No
IERu.20.5	Backward end-to-end OAM F5 flow indicator	M		[]Yes []No
	1. 0 %	O	0	[]Yes []No
	2. 0,1 %	O	1	[]Yes []No
	3. 1 %	O	4	[]Yes []No

A.7.6.18 Broadband report type

Table A.53: Broadband report type Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERu.31	Broadband report type Parameter identifier	M	10001001Octet1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Ext. Coding standard Flag Res. IE action indicator		Octet 2	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Length of broadband report type		Octet 3	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Contents		Octet 4	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Type of report		Octet 5	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Reserved		0	
	Modification confirmation		1	
	Adaptive clocked of the receiver used to transmit		2	
	Reserved		3	
	End-to-end connection completion capability		4	
	End to end connection completion indication request		5	
	End to end connection completed		6	
	Reserved		15-255	

A.7.6.19 Notification indicator

Table A.54: Notification indicator Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERu.26.1	Notification indicator Parameter identifier	M	10001001Octet1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Ext. Coding standard Flag Res. IE action indicator		Octet 2	<input type="checkbox"/> Yes <input type="checkbox"/> No
IERu.26.2	Length of notification indicator contents		Octet 3	<input type="checkbox"/> Yes <input type="checkbox"/> No
			Octet 4	<input type="checkbox"/> Yes <input type="checkbox"/> No
IER.26.3	Further contents as defined in other ITU-T Recommendations		Octet 4	<input type="checkbox"/> Yes <input type="checkbox"/> No

A.7.7 Structure of Parameters transmitted

These tables are to be completed in order to evaluate the likelihood of successful interoperation of two implementations. and to improve the conformance statement.

A.7.7.1 Broadband locking shift

Table A.55: Broadband locking shift Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETu.11.1	New codeset identification			<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. Codeset 4	M	4	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. Codeset 5	M	5	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. Codeset 6	M	6	<input type="checkbox"/> Yes <input type="checkbox"/> No
	4. Codeset 7	M	7	<input type="checkbox"/> Yes <input type="checkbox"/> No

A.7.7.2 Broadband non-locking shift

Table A.56: Broadband non-locking shift Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETu.12.1	Temporary codeset identification			<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. Codeset 0	M	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. Codeset 4	M	4	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. Codeset 5	M	5	<input type="checkbox"/> Yes <input type="checkbox"/> No
	4. Codeset 6	M	6	<input type="checkbox"/> Yes <input type="checkbox"/> No
	5. Codeset 7	M	7	<input type="checkbox"/> Yes <input type="checkbox"/> No

A.7.7.3 ATM adaptation layer parameters

Table A.57: ATM adaptation layer parameters Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETu.17.1	AAL type	M		[]Yes []No
	1. AAL for voice	O	0	[]Yes []No
	2. AAL type 1	O	1	[]Yes []No
	3. AAL type 2	O	2	[]Yes []No
	4. AAL type 3/4	O	3	[]Yes []No
	5. AAL type 5	O	5	[]Yes []No
	6. User defined AAL	O	16	[]Yes []No
IETu.17.2	Subtype	O		[]Yes []No
	1. Null	O	0	[]Yes []No
	2. Voice-band signal transport based on 64 kbit/s	O	1	[]Yes []No
	3. Circuit transport	O	2	[]Yes []No
	4. High-quality audio signal transport	O	4	[]Yes []No
5. Video signal transport	O	5	[]Yes []No	
IETu.17.3	CBR rate	O		[]Yes []No
	1. 64 kbit/s	O	1	[]Yes []No
	2. 1 544 kbit/s	O	4	[]Yes []No
	3. 6 312 kbit/s	O	5	[]Yes []No
	4. 32 064 kbit/s	O	6	[]Yes []No
	5. 44 736 kbit/s	O	7	[]Yes []No
	6. 97 728 kbit/s	O	8	[]Yes []No
	7. 2 048 kbit/s	O	16	[]Yes []No
	8. 8 448 kbit/s	O	17	[]Yes []No
	9. 34 368 kbit/s	O	18	[]Yes []No
	10. 139 264 kbit/s	O	19	[]Yes []No
	11. $n \times 64$ kbit/s	O	64	[]Yes []No
12. $n \times 8$ kbit/s	O	65	[]Yes []No	
IETu.17.4	Source clock frequency recovery method	O		[]Yes []No
	1. Null	O	0	[]Yes []No
	2. Synchronous residual time stamp method	O	1	[]Yes []No
3. Adaptive clock method	O	2	[]Yes []No	
IETu.17.5	Error correction method	O		[]Yes []No
	1. Null	O	0	[]Yes []No
	2. FEC for loss sensitive signal transport	O	1	[]Yes []No
3. FEC for delay sensitive signal transport	O	2	[]Yes []No	
IETu.17.6	Structured data transfer block size	O		[]Yes []No
IETu.17.7	Partially filled cells method	O		[]Yes []No
IETu.17.8	Forward maximum CPCS-SDU size	O		[]Yes []No
IETu.17.9	Backward maximum CPCS-SDU size	O		[]Yes []No
IETu.17.10	MID range	O		[]Yes []No
IETu.17.11	SSCS type	O		[]Yes []No
	1. Null	O	0	[]Yes []No
	2. Data SSSCS based on SSCOP (assured)	O	1	[]Yes []No
	3. Data SSSCS based on SSCOP (non-assured)	O	2	[]Yes []No
4. Frame relay SSSCS	O	4	[]Yes []No	
IETu.17.12	User defined AAL information	O		[]Yes []No

A.7.7.4 ATM traffic descriptor

Table A.58: ATM traffic descriptor Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETu.18.1	Forward peak cell rate (CLP = 0)	O	N/A	[]Yes []No
	Backward peak cell rate (CLP = 0)	O	N/A	[]Yes []No
	Forward peak cell rate (CLP = 0 + 1)	M	N/A	[]Yes []No
	Backward peak cell rate (CLP = 0 + 1)	M	N/A	[]Yes []No

A.7.7.5 Broadband bearer capability

See PICS proforma for EN 301 068-2.

Table A.59: Void

A.7.7.6 Broadband high layer information

Table A.60: Broadband high layer Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETu.24.1	High layer information type	M		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. ISO/IEC	O	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. User specific	O	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. Vendor specific application identifier	O	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
	4. Reference to ITU-T SG 1 B-ISDN teleservice recommendation	O	4	<input type="checkbox"/> Yes <input type="checkbox"/> No

A.7.7.7 Broadband low layer information

Table A.61: Broadband low layer Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETu.23.1	User information layer 2 protocol	O		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. Basic mode ISO 1745	O	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. ITU-T Recommendation Q.921 (I.441)	O	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. ITU-T Recommendation X.25 link layer	O	6	<input type="checkbox"/> Yes <input type="checkbox"/> No
	4. ITU-T Recommendation X.25 multilink	O	7	<input type="checkbox"/> Yes <input type="checkbox"/> No
	5. Extended LAPB; for half duplex operation	O	8	<input type="checkbox"/> Yes <input type="checkbox"/> No
	6. HDLC ARM	O	9	<input type="checkbox"/> Yes <input type="checkbox"/> No
	7. HDLC NRM	O	10	<input type="checkbox"/> Yes <input type="checkbox"/> No
	8. HDLC ABM	O	11	<input type="checkbox"/> Yes <input type="checkbox"/> No
	9. LAN logical link control (ISO/IEC 8802-2)	O	12	<input type="checkbox"/> Yes <input type="checkbox"/> No
	10. ITU-T Recommendation X.75 SLP	O	13	<input type="checkbox"/> Yes <input type="checkbox"/> No
	11. ITU-T Recommendation Q.922	O	14	<input type="checkbox"/> Yes <input type="checkbox"/> No
	12. User specified	O	16	<input type="checkbox"/> Yes <input type="checkbox"/> No
13. ISO/IEC 7776 DTE-DTE operation	O	17	<input type="checkbox"/> Yes <input type="checkbox"/> No	
IETu.23.2	Mode of operation (octet 6a)	O		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. Normal mode	O	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. Extended mode	O	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
IETu.23.3	ITU-T Recommendation Q.33 use	O		<input type="checkbox"/> Yes <input type="checkbox"/> No
IETu.23.4	User specified layer 2 protocol information	O		<input type="checkbox"/> Yes <input type="checkbox"/> No
IETu.23.5	Window size	O		<input type="checkbox"/> Yes <input type="checkbox"/> No
IETu.23.6	User information layer 3 protocol	O		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. ITU-T Recommendation X.25, packet layer	O	6	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. ISO/IEC 8208	O	7	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. ITU-T Recommendation X.223 or ISO/IEC 8878	O	8	<input type="checkbox"/> Yes <input type="checkbox"/> No
	4. ITU-T Recommendation X.233 or ISO/IEC 8473-1	O	9	<input type="checkbox"/> Yes <input type="checkbox"/> No
	5. ITU-T Recommendation T.70	O	10	<input type="checkbox"/> Yes <input type="checkbox"/> No
	6. ISO/IEC TR 9577	O	11	<input type="checkbox"/> Yes <input type="checkbox"/> No
	7. ITU-T Recommendation H.310	O	12	<input type="checkbox"/> Yes <input type="checkbox"/> No
	8. ITU-T Recommendation H.321	O	13	<input type="checkbox"/> Yes <input type="checkbox"/> No
	9. User specified	O	16	<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. ITU-T Recommendation X.25, packet layer	O	6	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. ISO/IEC 8208	O	7	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. ITU-T Recommendation X.223 or ISO/IEC 8878	O	8	<input type="checkbox"/> Yes <input type="checkbox"/> No
	4. ITU-T Recommendation X.233 or ISO/IEC 8473-1	O	9	<input type="checkbox"/> Yes <input type="checkbox"/> No
	5. ITU-T Recommendation T.70	O	10	<input type="checkbox"/> Yes <input type="checkbox"/> No
	6. ISO/IEC TR 9577	O	11	<input type="checkbox"/> Yes <input type="checkbox"/> No
	7. User specified	O	16	<input type="checkbox"/> Yes <input type="checkbox"/> No

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETu.23.7	Mode of operation (octet 7a)	O		[]Yes []No
	1. Normal packet sequence numbering	O	1	[]Yes []No
	2. Extended packet sequence numbering	O	2	[]Yes []No
IETu.23.8	User specified layer 3 protocol information	O		[]Yes []No
IETu.23.9	Default packet size	O		[]Yes []No
	1. 16 octets	O	4	[]Yes []No
	2. 32 octets	O	5	[]Yes []No
	3. 64 octets	O	6	[]Yes []No
	4. 128 octets	O	7	[]Yes []No
	5. 256 octets	O	8	[]Yes []No
	6. 512 octets	O	9	[]Yes []No
	7. 1 024 octets	O	10	[]Yes []No
	8. 2 048 octets	O	11	[]Yes []No
9. 4 096 octets	O	12	[]Yes []No	
IETu.23.10	Packet window size	O		[]Yes []No
IETu.23.11	Additional layer 3 protocol information for ISO/IEC TR 9577	O		[]Yes []No

A.7.7.8 Call state

Table A.62: Call state Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETu.27.1	Call state value	M		[]Yes []No
	1. Null	M	0	[]Yes []No
	2. Call initiated	M	1	[]Yes []No
	3. Overlap sending	O	2	[]Yes []No
	4. Outgoing call proceeding	M	3	[]Yes []No
	5. Call delivered	M	4	[]Yes []No
	6. Call present	M	6	[]Yes []No
	7. Call received	M	7	[]Yes []No
	8. Connect request	M	8	[]Yes []No
	9. Incoming call proceeding	M	9	[]Yes []No
	10. Active	M	10	[]Yes []No
	11. Release request	M	11	[]Yes []No
	12. Release indication	M	12	[]Yes []No
	13. Overlap receiving	O	25	[]Yes []No
	14. Restart null	M	0	[]Yes []No
	15. Restart request	M	61	[]Yes []No
16. Restart	M	62	[]Yes []No	

A.7.7.9 Called party number

Table A.63: Called party number Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETu.5.1	Type of number	M		[]Yes []No
	1. Unknown	O	0	[]Yes []No
	2. International	O	1	[]Yes []No
	3. National	O	2	[]Yes []No
	4. Network specific	O	3	[]Yes []No
	5. Subscriber	O	4	[]Yes []No
6. Abbreviated	O	6	[]Yes []No	
IETu.5.2	Addressing/numbering plan identification	M		[]Yes []No
	1. Unknown	O	0	[]Yes []No
	2. ISDN numbering plan	O	1	[]Yes []No
	3. ATM end system address	O	2	[]Yes []No
	4. Data numbering plan	O	3	[]Yes []No
5. Private numbering plan	O	9	[]Yes []No	

A.7.7.10 Called party subaddress

Table A.64: Called party subaddress Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETu.6.1	Type of subaddress	M		[]Yes []No
	1. NSAP	O	0	[]Yes []No
	2. User specified ATM endsystem address	O	1	[]Yes []No
	3. ATM end system address	O	2	[]Yes []No
IETu.6.2	Odd/even indicator	M		[]Yes []No
	1. Even number of address signals	O	0	[]Yes []No
	2. Odd number of address signals	O	1	[]Yes []No

A.7.7.11 Calling party number

Table A.65: Calling party number Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETu.15.1	Type of number	M		[]Yes []No
	1. Unknown	O	0	[]Yes []No
	2. International	O	1	[]Yes []No
	3. National	O	2	[]Yes []No
	4. Network specific	O	3	[]Yes []No
	5. Subscriber	O	4	[]Yes []No
	6. Abbreviated	O	6	[]Yes []No
IETu.15.2	Addressing/numbering plan identification	M		[]Yes []No
	1. Unknown	O	0	[]Yes []No
	2. ISDN numbering plan	O	1	[]Yes []No
	3. ATM end system address	O	2	[]Yes []No
	4. Data numbering plan	O	3	[]Yes []No
	4. Private numbering plan	O	9	[]Yes []No
		O	0	[]Yes []No
		O	1	[]Yes []No
	O	2	[]Yes []No	
	O	9	[]Yes []No	
IETu.15.3	Presentation indicator	O		[]Yes []No
	1. Presentation allowed	O	0	[]Yes []No
	2. Presentation restricted	O	1	[]Yes []No
	3. Number not available	O	2	[]Yes []No
IETu.15.4	Screening indicator	O		[]Yes []No
	1. User provided, not screened	O	0	[]Yes []No
	2. User provided, verified and passed	O	1	[]Yes []No
	3. User provided, verified and failed	O	2	[]Yes []No
	4. Network provided	O	3	[]Yes []No

A.7.7.12 Calling party subaddress

Table A.66: Calling party subaddress Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETu.16.1	Type of subaddress	M		[]Yes []No
	1. NSAP	O	0	[]Yes []No
	2. ATM endsystem address	O	1	[]Yes []No
	3. User specified	O	2	[]Yes []No
IETu.16.2	Odd/even indicator	M		[]Yes []No
	1. Even number of address signals	O	0	[]Yes []No
	2. Odd number of address signals	O	1	[]Yes []No

A.7.7.13 Connection identifier

Table A.67: Connection identifier Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETu.19.1	VP-associated signalling	M		[]Yes []No
	1. VP-associated signalling	O	0	[]Yes []No
	2. Explicit indication of VPCI	M	1	[]Yes []No
IETu.19.2	Preferred/exclusive	M		[]Yes []No
	1. Exclusive VPCI, exclusive VCI	O	0	[]Yes []No
	2. Exclusive VPCI, any VCI	O	1	[]Yes []No

A.7.7.14 End-to-end transit delay

The end-to-end transit delay is now specified in clause 8.2.1 of ITU-T Recommendation Q.2965.2 in table end-to-end transit delay parameter.

A.7.7.15 Quality of service parameter

The quality of service parameter is now specified in ITU-T Recommendation Q.2965.1 in table QOS parameter.

A.7.7.16 Restart indicator

Table A.68: Restart indicator Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETu.8.1	Class	M		[]Yes []No
	1. Indicated virtual channel	O	0	[]Yes []No
	2. All VCs in indicated VPC controlled by the signalling VC	O	1	[]Yes []No
	3. All VCs controlled by the layer 3 entity	O	2	[]Yes []No

A.7.7.17 Transit network selection

Table A.69: Transit network selection Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETu.7.1	Type of network identification	M		[]Yes []No
	1. User specified	O	0	[]Yes []No
	2. National network identification	O	2	[]Yes []No
	3. International network identification	O	3	[]Yes []No
IETu.7.2	Network identification plan	M		[]Yes []No
	1. Unknown	O	0	[]Yes []No
	2. Carrier identification code	O	1	[]Yes []No
	3. Data network identification code	O	3	[]Yes []No

A.7.7.18 OAM traffic descriptor

Table A.70: OAM traffic descriptor Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETu.20.1	Shaping indicator	M		[]Yes []No
	1. No user requirement	O	0	[]Yes []No
	2. Aggregate shaping not allowed	O	1	[]Yes []No
IETu.20.2	Compliance indicator	M		[]Yes []No
	1. Optional end-to-end OAM F5 flow	O	0	[]Yes []No
	2. Mandatory end-to-end OAM F5 flow	O	1	[]Yes []No
IETu.20.3	User-network fault management indicator	M		[]Yes []No
	1. No user-originated indications	O	0	[]Yes []No
	2. Use of user-originated indications	O	1	[]Yes []No
IETu.20.4	Forward end-to-end OAM F5 flow indicator	M		[]Yes []No
	1. 0 %	O	0	[]Yes []No
	2. 0,1 %	O	1	[]Yes []No
	3. 1 %	O	4	[]Yes []No
IETu.20.5	Backward end-to-end OAM F5 flow indicator	M		[]Yes []No
	1. 0 %	O	0	[]Yes []No
	2. 0,1 %	O	1	[]Yes []No
	3. 1 %	O	4	[]Yes []No

A.7.7.19 Broadband report type

Table A.71: Broadband report type Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETu 31	Broadband report type Parameter identifier	M	10001001Octet1	[]Yes []No
	Ext. Coding standard Flag Res. IE action indicator		Octet 2	[]Yes []No
	Length of broadband report type		Octet 3	[]Yes []No
	Contents		Octet 4	[]Yes []No
	Type of report		Octet 5	[]Yes []No
	Reserved		0	
	Modification confirmation		1	
	Adaptive clocked of the receiver used to transmit		2	
	Reserved		3	
	End-to-end connection completion capability		4	
	End to end connection completion indication request		5	
	End to end connection completed		6	
	Reserved		15-255	

A.7.7.20 Notification indicator

Table A.72: Notification indicator Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETu.26.1	Notification indicator Parameter identifier	M	10001001Octet1	[]Yes []No
	Ext. Coding standard Flag Res. IE action indicator		Octet 2	[]Yes []No
IETu.26.2	Length of notification indicator contents		Octet 3	[]Yes []No
			Octet 4	[]Yes []No
IETu.26.3	Further contents as defined in other ITU-T Recommendations		Octet 4	[]Yes []No

A.8 Network

The tables provided in this clause need only to be completed for network implementations:

Prerequisite: R 2.

A.8.1 Major capabilities

Each question in table A.72 refers to a major function of the protocol. Answering "Yes" to a particular question states that the implementation supports all the mandatory procedures for that function defined in the referenced clauses and clauses of ITU-T Recommendation Q.2931 as modified by EN 300 443-1. Answering "No" to a particular question states that the implementation does not support that function of the protocol.

Table A.73: Major capabilities of the network role

Item	Major capability: Does the implementation support...?	Conditions for status	Status	Reference	Support
Call establishment at the originating interface					
MCn.1	call establishment at the originating interface (outgoing calls from the user's point of view)		M	5.1	[]Yes []No
MCn.1.1	support associated signalling on the originating side		O	5.1.2	[]Yes []No
Call establishment at the destination interface					
MCn.2	call establishment at the destination interface (incoming calls from the user's point of view)		M	5.2	[]Yes []No
MCn.2.1	support associated signalling on the destination side		O	5.2.3	[]Yes []No
Others					
MCn.3	initiation of call clearing		M	5.4	[]Yes []No
MCn.4	restart procedure		M	5.5	[]Yes []No
MCn.5	handling of error conditions		M	5.6	[]Yes []No
MCn.5.1	invoke the status enquiry procedure on receipt of an AAL-ESTABLISH.indication in the call establishment phase		O	5.6.9 b)	[]Yes []No
MCn.6	error procedures with explicit action indication		M	5.7	[]Yes []No
MCn.7	handling of messages with insufficient information		M	5.8	[]Yes []No
MCn.8	notification procedures		M	5.9	[]Yes []No
MCn.9	additional procedures for the provision of 64 kbit/s circuit-mode services		O	6	[]Yes []No
MCn.11	transit network selection procedures		O	clause D.2	[]Yes []No
MCn.13	handling of the OAM traffic descriptor		O	annex I	[]Yes []No

A.8.2 Subsidiary capabilities

Indicating support for an item in table A.77 states that the implementation supports special cases or options within a major capability.

Table A.74: Subsidiary capabilities of the network role

Item	Subsidiary capability: Does the implementation support...?	Conditions for status	Status	Reference	Support
Call establishment at the originating interface					
SCn.1	sending of the called party address information in the Called party number Parameter		M	5.1.1	[]Yes []No
SCn.2	overlap sending	MCn.9 NOT MCn.9	M N/A	6.5.2	[]Yes []No []N/A
SCn.2.1	Receiving of the CONNECTION AVAILABLE by the network from the calling user	MCn.1 NOT MCn.1	O N/A	6.5.2	[]Yes []No []N/A
Call establishment at the destination interface					
4	overlap receiving	MCn.9 NOT MCn.9	M N/A	6.5.3	[]Yes []No []N/A
SCn.5	sending of Broadband sending complete Parameter	SCn.4 NOT SCn.4	O M	6.5.3	[]Yes []No
SCn.5.1	Sending of ParameterCONNECTION AVAILABLE by the network to the called user	MCn.2 NOT MCn.2	O N/A		[]Yes []No

A.8.3 PDUs

The tables in this clause ask questions related to the supported PDUs in the network role. In the DSS2 protocol, PDUs are known by the term "messages".

A.8.3.1 Messages received by the network

Indicating support for an item in table A.78 states that the implementation has the ability to recognize the message listed in that item. Support for the receipt of a particular type of PDU means support for recognizing and acting upon all valid instances of that PDU type, including all valid PDU parameters, to the extent required by EN 300 443-1.

Table A.75: Messages received by the network

Item	Message: Does the implementation support the receipt of...?	Conditions for status	Status	Reference	Support
MRn.1	ALERTING		M	3.1.1, 3.2.1, 5.2.5	[]Yes []No
MRn.2	CALL PROCEEDING		M	3.1.2, 3.2.2, 5.2.5	[]Yes []No
MRn.3	CONNECT		M	3.1.3, 3.2.3, 5.2.7	[]Yes []No
MRn.4	CONNECT ACKNOWLEDGE		M	3.1.4, 5.1.7	[]Yes []No
MRn.5	CONNECTION AVAILABLE		M	3.1.4, 5.1.7	[]Yes []No
MRn.6	INFORMATION	MCn.9 NOT MCn.9	M N/A	3.2.4, 6.5.2	[]Yes []No []N/A
MRn.7	NOTIFY		M	3.1.10, 5.9	[]Yes []No
MRn.8	PROGRESS	MCn.9 NOT MCn.9	M N/A	3.2.5, 6.6.1, 6.6.2	[]Yes []No []N/A
MRn.9	RELEASE		M	3.1.5, 3.2.6, 5.4.3, 5.4.5	[]Yes []No
MRn.10	RELEASE COMPLETE		M	3.1.6, 5.2.2.2.2, 5.2.3, 5.2.4, 5.2.5, 5.4.2, 5.4.4, 5.6.3.2, 5.6.4, 5.6.7, 5.6.8.1, 5.7.2	[]Yes []No
MRn.11	RESTART		M	3.3.1, 5.5.2	[]Yes []No

Item	Message: Does the implementation support the receipt of...?	Conditions for status	Status	Reference	Support
MRn.12	RESTART ACKNOWLEDGE		M	3.3.2, 5.5.1	[]Yes []No
MRn.13	SETUP		M	3.1.7, 3.2.7, 5.1	[]Yes []No
MRn.14	SETUP ACKNOWLEDGE	MCn.9 NOT MCn.9	M N/A	3.2.8, 6.5.3	[]Yes []No []N/A
MRn.15	STATUS		M	3.1.8, 5.6.3.2, 5.6.12	[]Yes []No
MRn.16	STATUS ENQUIRY		M	3.1.9, 5.6.3.2, 5.6.11	[]Yes []No

A.8.3.2 Messages transmitted by the network

Indicating support for an item in table A.79 states that the implementation has the ability to transmit the message listed in that item.

Table A.76: Messages transmitted by the network

Item	Message: Does the implementation support the receipt of...?	Conditions for status	Status	Reference	Support
MTn.1	ALERTING		M	3.1.1, 3.2.1, 5.1.6	[]Yes []No
MTn.2	CALL PROCEEDING		M	3.1.2, 3.2.2, 5.1.5	[]Yes []No
MTn.3	CONNECT		M	3.1.3, 3.2.3, 5.1.7	[]Yes []No
MTn.4	CONNECT ACKNOWLEDGE		M	3.1.4, 5.2.7	[]Yes []No
MTn.5	CONNECTION AVAILABLE	MCn.1	O	3.1.4, 5.2.7	[]Yes []No
MTn.6	INFORMATION	MCn.9 NOT MCn.9	M N/A	3.2.4, 6.5.3	[]Yes []No []N/A
MTn.7	NOTIFY		M	3.1.10, 5.9	[]Yes []No
MTn.8	PROGRESS	MCn.9 NOT MCn.9	M N/A	3.2.5, 6.6.1, 6.6.2	[]Yes []No []N/A
MTn.9	RELEASE		M	3.1.5, 3.2.6, 5.4.4	[]Yes []No
MTn.10	RELEASE COMPLETE		M	3.1.6, 5.1.2, 5.1.3, 5.4.2, 5.4.3, 5.6.3, 5.6.7, 5.6.8.1, 5.6.12, 5.7.2	[]Yes []No
MTn.11	RESTART		M	3.3.1, 5.5.1	[]Yes []No
MTn.12	RESTART ACKNOWLEDGE		M	3.3.2, 5.5.2	[]Yes []No
MTn.13	SETUP		M	3.1.7, 3.2.7, 5.2	[]Yes []No
MTn.14	SETUP ACKNOWLEDGE	MCn.9 NOT MCn.9	M N/A	3.2.8, 6.5.2	[]Yes []No []N/A
MTn.15	STATUS		M	3.1.8, 5.5.2.1, 5.6.3.2, 5.6.4, 5.6.7, 5.6.8, 5.6.11, 5.7	[]Yes []No
MTn.16	STATUS ENQUIRY		M	3.1.9, 5.6.3.2, 5.6.11	[]Yes []No

A.8.4 PDU parameters

The tables in this clause ask questions related to the support of PDU parameters in messages received and transmitted by the IUT in the network role. In the DSS2, protocol PDU parameters are known by the term "Parameters".

Tables A.80 and A.81 deal with the four Parameters that appear in all messages that are either received or transmitted (respectively) by the IUT in the network role (Protocol discriminator, Call reference, Message type and Message length) and two Parameters which may appear in a message for which it is mandatory for the receiver to interpret (shift Parameters).

NOTE: The last two elements do not appear in the message CONNECTION AVAILABLE.

Table A.77: Parameters in all messages received by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MRn-IE.1	Protocol discriminator		M	3.1, 3.2, 4.2	[]Yes []No
MRn-IE.2	Call reference		M	3.1, 3.2, 4.3	[]Yes []No
MRn-IE.3	Message type		M	3.1, 3.2, 4.4.1	[]Yes []No
MRn-IE.4	Message length		M	3.1, 3.2, 4.4.2	[]Yes []No
MRn-IE.11	Broadband locking shift		M	4.5.3	[]Yes []No
MRn-IE.12	Broadband non-locking shift		M	4.5.4	[]Yes []No

Table A.78: Parameters in all messages transmitted by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MTn-IE.1	Protocol discriminator		M	3.1, 3.2, 4.2	[]Yes []No
MTn-IE.2	Call reference		M	3.1, 3.2, 4.3	[]Yes []No
MTn-IE.3	Message type		M	3.1, 3.2, 4.4.1	[]Yes []No
MTn-IE.4	Message length		M	3.1, 3.2, 4.4.2	[]Yes []No
MTn-IE.11	Broadband locking shift		O	4.5.3	[]Yes []No
MTn-IE.12	Broadband non-locking shift		O	4.5.4	[]Yes []No

A.8.4.1 Parameters in messages received by the network

Indicating support for an item in the tables in this clause states that the implementation has the ability to process the Parameters listed in the specified received messages.

Table A.79: Parameters in ALERTING received by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MRn.1-IE.19	Connection identifier		M	3.1.1, 3.2.1	[]Yes []No
MRn.1-IE.29	Narrowband bearer capability	MCn.9 NOT MCn.9	O N/A	3.2.1	[]Yes []No []N/A
MRn.1-IE.10	Narrowband high layer compatibility	MCn.9 NOT MCn.9	O N/A	3.2.1	[]Yes []No []N/A
MRn.1-IE.26	Notification indicator		M	3.1.1, 3.2.1	[]Yes []No
MRn.1-IE.28	Progress indicator	MCn.9 NOT MCn.9	M N/A	3.2.1	[]Yes []No []N/A
MRn.1-IE.31	Broadband report type	MCu.9 AND MRn.1 NOT (MCu.9 AND MRn.1)	O N/A	4.5	[]Yes []No []N/A

Table A.80: Parameters in CALL PROCEEDING received by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MRn.2-IE.19	Connection identifier		M	3.1.2, 3.2.2	[]Yes []No
MRn.2-IE.29	Narrowband bearer capability	MCn.9 NOT MCn.9	O N/A	3.2.2	[]Yes []No []N/A
MRn.2-IE.10	Narrowband high layer compatibility	MCn.9 NOT MCn.9	O N/A	3.2.2	[]Yes []No []N/A
MRn.2-IE.26	Notification indicator		M	3.1.2, 3.2.2	[]Yes []No
MRn.2-IE.28	Progress indicator	MCn.9 NOT MCn.9	M N/A	3.2.2	[]Yes []No []N/A

Table A.81: Parameters in CONNECT received by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MRn.3-IE.17	AAL parameters		M	3.1.3, 3.2.3	[]Yes []No
MRn.3-IE.23	Broadband low layer information		M	3.1.3	[]Yes []No
MRn.3-IE.19	Connection identifier		M	3.1.3, 3.2.3	[]Yes []No
MRn.3-IE.25	End-to-end transit delay		M	3.1.3, 3.2.3	[]Yes []No
MRn.3-IE.29	Narrowband bearer capability	MCn.9 NOT MCn.9	O N/A	3.2.3	[]Yes []No []N/A
MRn.3-IE.10	Narrowband high layer compatibility	MCn.9 NOT MCn.9	O N/A	3.2.3	[]Yes []No []N/A
MRn.3-IE.9	Narrowband low layer compatibility	MCn.9 NOT MCn.9	M N/A	3.2.3	[]Yes []No []N/A
MRn.3-IE.26	Notification indicator		M	3.1.3, 3.2.3	[]Yes []No
MRn.3-IE.20	OAM traffic descriptor		M	3.1.3, 3.2.3	[]Yes []No
MRn.3-IE.28	Progress indicator	MCn.9 NOT MCn.9	M N/A	3.2.3	[]Yes []No []N/A
MRu3-IE.31	Broadband report type	MCu.9 AND MRu 3 NOT (MCu.9 AND MRu.3)	O N/A	4.5	[]Yes []No []N/A

Table A.82: Parameters in CONNECT ACKNOWLEDGE received by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MRn.4-IE.26	Notification indicator		M	3.1.4	[]Yes []No

Table A.83: Parameters in CONNECTION AVAILABLE received by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MRn.5-IE.26	Notification indicator		M	3.1.11	[]Yes []No
MRn.5-IE.31	Broadband report type		M	3.1.11	[]Yes []No

Table A.84: Parameters in INFORMATION received by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MRn.6-IE.13	Broadband sending complete	MRn.6 NOT MRn.6	M N/A	3.2.4	[]Yes []No []N/A
MRn.6-IE.5	Called party number	MRn.6 NOT MRn.6	M N/A	3.2.4	[]Yes []No []N/A

Table A.85: Parameters in NOTIFY received by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MRn.7-IE.26	Notification indicator		M	3.1.10	[]Yes []No

Table A.86: Parameters in PROGRESS received by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MRn.8-IE.29	Narrowband bearer capability	MRn.8 NOT MRn.8	O N/A	3.2.5	[]Yes []No []N/A
MRn.8-IE.10	Narrowband high layer compatibility	MRn.8 NOT MRn.8	O N/A	3.2.5	[]Yes []No []N/A
MRn.8-IE.26	Notification indicator	MRn.8 NOT MRn.8	M N/A	3.2.5	[]Yes []No []N/A
MRn.8-IE.28	Progress indicator	MRn.8 NOT MRn.8	M N/A	3.2.5	[]Yes []No []N/A

Table A.87: Parameters in RELEASE received by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MRn.9-IE.30	Cause		M	3.1.5, 3.2.6	[]Yes []No
MRn.9-IE.26	Notification indicator		M	3.1.5, 3.2.6	[]Yes []No
MRn.9-IE.28	Progress indicator		M	3.2.6	[]Yes []No

Table A.88: Parameters in RELEASE COMPLETE received by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MRn.10-IE.30	Cause		M	3.1.6	[]Yes []No

Table A.89: Parameters in RESTART received by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MRn.11-IE.19	Connection identifier		M	3.3.1	[]Yes []No
MRn.11-IE.8	Restart indicator		M	3.3.1	[]Yes []No

Table A.90: Parameters in RESTART ACKNOWLEDGE received by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MRn.12-IE.19	Connection identifier		M	3.3.2	[]Yes []No
MRn.12-IE.8	Restart indicator		M	3.3.2	[]Yes []No

Table A.91: Parameters in SETUP received by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MRn.13-IE.14	Broadband repeat indicator	MRn.13 NOT MRn.13	O N/A	3.1.7, 3.2.7	[]Yes []No N/A []
MRn.13-IE.17	AAL parameters		M	3.1.7, 3.2.7	[]Yes []No
MRn.13-IE.18	ATM traffic descriptor		M	3.1.7, 3.2.7	[]Yes []No
MRn.13-IE.22	Broadband bearer capability		M	3.1.7, 3.2.7	[]Yes []No
MRn.13-IE.23	Broadband high layer information		M	3.1.7	[]Yes []No
MRn.13-IE.14	Broadband repeat indicator	MRn.13 NOT MRn.13	O N/A	3.1.7, 3.2.7	[]Yes []No N/A []
MRn.13-IE.23	Broadband low layer information		M	3.1.7	[]Yes []No
MRn.13-IE.5	Called party number		M	3.1.7, 3.2.7	[]Yes []No
MRn.13-IE.6	Called party subaddress		M	3.1.7, 3.2.7	[]Yes []No
MRn.13-IE.15	Calling party number		M	3.1.7, 3.2.7	[]Yes []No
MRn.13-IE.16	Calling party subaddress		M	3.1.7, 3.2.7	[]Yes []No
MRn.13-IE.19	Connection identifier		M	3.1.7, 3.2.7	[]Yes []No
MRn.13-IE.25	End-to-end transit delay		M	3.1.7, 3.2.7	[]Yes []No
MRn.13-IE.29	Narrowband bearer capability	MCn.9 NOT MCn.9	M N/A	3.2.7	[]Yes []No []N/A
MRn.13-IE.10	Narrowband high layer compatibility	MCn.9 NOT MCn.9	M N/A	3.2.7	[]Yes []No []N/A
MRn.13-IE.9	Narrowband low layer compatibility	MCn.9 NOT MCn.9	M N/A	3.2.7	[]Yes []No []N/A
MRn.13-IE.26	Notification indicator		M	3.1.7, 3.2.7	[]Yes []No
MRn.13-IE.20	OAM traffic descriptor		M	3.1.7, 3.2.7	[]Yes []No
MRn.13-IE.28	Progress indicator	MCn.9 NOT MCn.9	M N/A	3.2.7	[]Yes []No []N/A
MRn.13-IE.21	QOS parameter		M	3.1.7, 3.2.7	[]Yes []No
MRn.13-IE.13	Broadband sending complete		O	3.1.7, 3.2.7	[]Yes []No
MRn.13-IE.7	Transit network selection		O	3.1.7, 3.2.7	[]Yes []No
MRn.13-IE.31	Broadband report type	MCu.9 AND MRn.13 NOT (MCu.9 AND MRn.13)	O N/A	4.5	[]Yes []No []N/A

Table A.92: Parameters in SETUP ACKNOWLEDGE received by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MRn.14-IE.19	Connection identifier	MRn.14 NOT MRn.14	M N/A	3.2.8	[]Yes []No []N/A
MRn.14-IE.26	Notification indicator	MRn.14 NOT MRn.14	M N/A	3.2.8	[]Yes []No []N/A
MRn.14-IE.28	Progress indicator	MRn.14 NOT MRn.14	M N/A	3.2.8	[]Yes []No []N/A

Table A.93: Parameters in STATUS received by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MRn.14-IE.27	Call state		M	3.1.8	[]Yes []No
MRn.14-IE.30	Cause		M	3.1.8	[]Yes []No

A.8.4.2 Parameters in messages transmitted by the network

Indicating support for an item in the tables in this clause states that the implementation has the ability to generate, and to transmit in the specified message, the Parameters listed. Such support does not necessarily mean that the indicated Parameter is included in every instance of the transmitted message.

Table A.94: Parameters in ALERTING transmitted by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MTn.1-IE.19	Connection identifier		O	3.1.1, note 1, 3.2.1, note 1	[]Yes []No
MTn.1-IE.29	Narrowband bearer capability	MCn.9 NOT MCn.9	O N/A	3.2.1	[]Yes []No []N/A
MTn.1-IE.10	Narrowband high layer compatibility	MCn.9 NOT MCn.9	O N/A	3.2.1	[]Yes []No []N/A
MTn.1-IE.26	Notification indicator		O	3.1.1, 3.2.1	[]Yes []No
MTn.1-IE.28	Progress indicator	MCn.9 NOT 9	O N/A	3.2.1	[]Yes []No []N/A
MTn.1-IE.31	Broadband report type	MCu.9 AND MTn.1 NOT (MCu.9 AND MTn.1)	O N/A	4.5	[]Yes []No []N/A

Table A.95: Parameters in CALL PROCEEDING transmitted by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MTn.2-IE.19	Connection identifier		M	3.1.2, note 1, 3.2.2, note 1	[]Yes []No
MTn.2-IE.29	Narrowband bearer capability	MCn.9 NOT MCn.9	O N/A	3.2.2	[]Yes []No []N/A
MTn.2-IE.10	Narrowband high layer compatibility	MCn.9 NOT MCn.9	O N/A	3.2.2	[]Yes []No []N/A
MTn.2-IE.26	Notification indicator		O	3.1.2, 3.2.2	[]Yes []No
MTn.2-IE.28	Progress indicator	MCn.9 NOT MCn.9	O N/A	3.2.2	[]Yes []No []N/A

Table A.96: Parameters in CONNECT transmitted by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MTn.3-IE.17	AAL parameters		M	3.1.3, note 1, 3.2.3, note 1	[]Yes []No
MTn.3-IE.23	Broadband low layer information		O	3.1.3	[]Yes []No
MTn.3-IE.19	Connection identifier		O	3.1.3, note 3, 3.2.3, note 2	[]Yes []No
MTn.3-IE.25	End-to-end transit delay		M	3.1.3, note 4	[]Yes []No
MTn.3-IE.29	Narrowband bearer capability	MCn.9 NOT MCn.9	O N/A	3.2.3	[]Yes []No []N/A
MTn.3-IE.10	Narrowband high layer compatibility	MCn.9 NOT MCn.9	O N/A	3.2.3	[]Yes []No []N/A
MTn.3-IE.9	Narrowband low layer compatibility	MCn.9 NOT MCn.9	M N/A	3.2.3, note 6	[]Yes []No []N/A
MTn.3-IE.26	Notification indicator		O	3.1.3, 3.2.3	[]Yes []No
MTn.3-IE.20	OAM traffic descriptor		M	3.1.3, 3.2.3	[]Yes []No
MTn.3-IE.28	Progress indicator	MCn.9 NOT MCn.9	O N/A	3.2.3	[]Yes []No []N/A
MTn.3-IE.31	Broadband report type	MCu.9 AND MTn.3 NOT (MCu.9 AND MTn.3)	O N/A	4.5	[]Yes []No []N/A

Table A.97: Parameters in CONNECT ACKNOWLEDGE transmitted by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MTn.4-IE.26	Notification indicator		O	3.1.4	[]Yes []No

Table A.98: Parameters in CONNECTION AVAILABLE transmitted by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MTn.5-IE.26	Notification indicator		M	3.1.11	[]Yes []No
MTn.5-IE.31	Broadband report type		M	3.1.11	[]Yes []No

Table A.99: Parameters in INFORMATION transmitted by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MTn.6-IE.13	Broadband sending complete	MTn.6 NOT MTn.6	O N/A	3.2.4	[]Yes []No []N/A
MTn.6-IE.5	Called party number	MTn.6 NOT MTn.6	M N/A	3.2.4	[]Yes []No []N/A

Table A.100: Parameters in NOTIFY transmitted by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MTn.7-IE.26	Notification indicator		M	3.1.10	[]Yes []No

Table A.101: Parameters in PROGRESS transmitted by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MTn.8-IE.29	Narrowband bearer capability	MTn.8 NOT MTn.8	O N/A	3.2.5	[]Yes []No []N/A
MTn.8-IE.10	Narrowband high layer compatibility	MTn.8 NOT MTn.8	O N/A	3.2.5	[]Yes []No []N/A
MTn.8-IE.26	Notification indicator	MTn.8 NOT MTn.8	O N/A	3.2.5	[]Yes []No []N/A
MTn.8-IE.28	Progress indicator	MTn.8 NOT MTn.8	M N/A	3.2.5	[]Yes []No []N/A

Table A.102: Parameters in RELEASE transmitted by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MTn.9-IE.30	Cause		M	3.1.5, 3.2.6	[]Yes []No
MTn.9-IE.26	Notification indicator		O	3.1.5, 3.2.6	[]Yes []No
MTn.9-IE.28	Progress indicator		O	3.2.6	[]Yes []No

Table A.103: Parameters in RELEASE COMPLETE transmitted by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MTn.10-IE.30	Cause		M	3.1.6, note 2	[]Yes []No

Table A.104: Parameters in RESTART transmitted by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MTn.11-IE.19	Connection identifier		M	3.3.1	[]Yes []No
MTn.11-IE.8	Restart indicator		M	3.3.1	[]Yes []No

Table A.105: Parameters in RESTART ACKNOWLEDGE transmitted by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MTn.12-IE.19	Connection identifier		M	3.3.2	[]Yes []No
MTn.12-IE.8	Restart indicator		M	3.3.2	[]Yes []No

Table A.106: Parameters in SETUP transmitted by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MTn.13-IE.14	Broadband repeat indicator	MTn.13 NOT MTn.13	O N/A	3.1.7, 3.2.7	[]Yes []No N/A []
MTn.13-IE.17	AAL parameters		M	3.1.7, note 1, 3.2.7	[]Yes []No
MTn.13-IE.18	ATM traffic descriptor		M	3.1.7, 3.2.7	[]Yes []No
MTn.13-IE.22	Broadband bearer capability		M	3.1.7, 3.2.7	[]Yes []No
MTn.13-IE.24	Broadband high layer information		M	3.1.7, note 2	[]Yes []No
MTn.13-IE.14	Broadband repeat indicator	MTn.13 NOT MTn.13	O N/A	3.1.7, 3.2.7	[]Yes []No N/A []
MTn.13-IE.23	Broadband low layer information		M	3.1.7, note 4	[]Yes []No
MTn.13-IE.5	Called party number	SCn.2 NOT SCn.2	O M	3.1.7, 3.2.7	[]Yes []No
MTn.13-IE.6	Called party subaddress		M	3.1.7, note 6, 3.2.7	[]Yes []No
MTn.13-IE.15	Calling party number		I	3.1.7, note 7, 3.2.7, note 4	[]Yes []No
MTn.13-IE.16	Calling party subaddress		I	3.1.7, note 8, 3.2.7, note 5	[]Yes []No
MTn.13-IE.19	Connection identifier	MCn.2.1 NOT MCn.2.1	M O	3.1.7, note 9, 3.2.7	[]Yes []No
MTn.13-IE.25	End-to-end transit delay		M	3.1.7, note 10, 3.2.7	[]Yes []No
MTn.13-IE.29	Narrowband bearer capability	MCn.9 NOT MCn.9	M N/A	3.2.7	[]Yes []No []N/A
MTn.13-IE.10	Narrowband high layer compatibility	MCn.9 NOT MCn.9	M N/A	3.2.7, note 10	[]Yes []No []N/A
MTn.13-IE.9	Narrowband low layer compatibility	MCn.9 NOT MCn.9	M N/A	3.2.7 note 12	[]Yes []No []N/A
MTn.13-IE.26	Notification indicator		O	3.1.7, 3.2.7	[]Yes []No
MTn.13-IE.20	OAM traffic descriptor		O	3.1.7, 3.2.7	[]Yes []No

Item	Parameter	Conditions for status	Status	Reference	Support
MTn.13-IE.28	Progress indicator	MCn.9 NOT MCn.9	O N/A	3.2.7	[]Yes []No []N/A
MTn.13-IE.21	QOS parameter		M	3.1.7, 3.2.7	[]Yes []No
MTn.13-IE.13	Broadband sending complete		M	3.1.7, 3.2.7	[]Yes []No
MTn.13-IE.7	Transit network selection		X		[]Yes []No
MTn.13-IE.31	Broadband report type	MCu.9 AND MTn.13 NOT (MCu.9 AND MTn.13)	O N/A	4.5	[]Yes []No []N/A

Table A.107: Parameters in SETUP ACKNOWLEDGE transmitted by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MTn.14-IE.19	Connection identifier	MTn.14 NOT MTn.14	M N/A	3.2.8	[]Yes []No []N/A
MTn.14-IE.26	Notification indicator	MTn.14 NOT MTn.14	O N/A	3.2.8	[]Yes []No []N/A
MTn.14-IE.28	Progress indicator	MTn.14 NOT MTn.14	O N/A	3.2.8	[]Yes []No []N/A

Table A.108: Parameters in STATUS transmitted by the network

Item	Parameter	Conditions for status	Status	Reference	Support
MTn.15-IE.27	Call state		M	3.1.8	[]Yes []No
MTn.15-IE.30	Cause		M	3.1.8	[]Yes []No

A.8.5 Timers

Indicating support for an item in table A.112 states that the implementation has a timer that operates in accordance with the description in clause 7 and with the relevant behaviour specified in clauses 5 and 6 of ITU-T Recommendation Q.2931 as modified by EN 300 443-1.

The table indicates the permitted range of values for each timer. The supplier shall state the values supported by their implementation.

Table A.109: Timers in the network role

Item	Timer: Does the implementation support...?	Conditions for status	Status	Reference	Support	Values Allowed	Value Supported
TMn 1	T301		M	table 7.1	[]Yes []No	minim. 3 min	
TMn 2	T302	MCn.9 NOT MCn.9	M N/A	table 7.2	[]Yes []No []N/A	10 - 15 s	
TMn 3	T303		M	table 7.1 & 7.2	[]Yes []No	4 s	
TMn 4	T304	MCn.9 NOT MCn.9	M N/A	table 7.2	[]Yes []No []N/A	20 s	
TMn 12	T306	MCn.9 NOT MCn.9	M N/A	table 7.2	[]Yes []No []N/A	30 s	
TMn 5	T308		M	table 7.1	[]Yes []No	30 s	
TMn 6	T309		M	table 7.1	[]Yes []No	10 s	
TMn 7	T310		M	table 7.1	[]Yes []No	30 - 120 s	
TMn 9	T316		M	table 7.1	[]Yes []No	120 s	
TMn 10	T317		M	table 7.1	[]Yes []No	< T316	
TMn 11	T322		M	table 7.1	[]Yes []No	4 s	

A.8.6 Structure of Parameters received

These tables are to be completed in order to evaluate the likelihood of successful interoperation of two implementations. The answers supplied are not used for conformance testing.

A.8.6.1 Broadband locking shift

Table A.110: Broadband locking shift Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERn.11.1	New codeset identification	M		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. Codeset 4	M	4	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. Codeset 5	M	5	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. Codeset 6	M	6	<input type="checkbox"/> Yes <input type="checkbox"/> No
	4. Codeset 7	M	7	<input type="checkbox"/> Yes <input type="checkbox"/> No

A.8.6.2 Broadband non-locking shift

Table A.111: Broadband non-locking shift Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERn.12.1	Temporary codeset identification	M		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. Codeset 0	M	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. Codeset 4	M	4	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. Codeset 5	M	5	<input type="checkbox"/> Yes <input type="checkbox"/> No
	4. Codeset 6	M	6	<input type="checkbox"/> Yes <input type="checkbox"/> No
	5. Codeset 7	M	7	<input type="checkbox"/> Yes <input type="checkbox"/> No

A.8.6.3 ATM adaptation layer parameters

Table A.112: ATM adaptation layer parameters Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERn.17.1	AAL type	M		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. AAL for voice	O	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. AAL type 1	O	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. AAL type 2	O	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
	4. AAL type 3/4	O	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
	5. AAL type 5	O	5	<input type="checkbox"/> Yes <input type="checkbox"/> No
	6. User defined AAL	O	16	<input type="checkbox"/> Yes <input type="checkbox"/> No
IERn.17.2	Subtype	O		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. Null	O	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. Voice-band signal transport based on 64 kbit/s	O	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. Circuit transport	O	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
	4. High-quality audio signal transport	O	4	<input type="checkbox"/> Yes <input type="checkbox"/> No
IERn.17.3	5. Video signal transport	O	5	<input type="checkbox"/> Yes <input type="checkbox"/> No
	CBR rate	O		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. 64 kbit/s	O	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. 1 544 kbit/s	O	4	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. 6 312 kbit/s	O	5	<input type="checkbox"/> Yes <input type="checkbox"/> No
	4. 32 064 kbit/s	O	6	<input type="checkbox"/> Yes <input type="checkbox"/> No
	5. 44 736 kbit/s	O	7	<input type="checkbox"/> Yes <input type="checkbox"/> No
	6. 97 728 kbit/s	O	8	<input type="checkbox"/> Yes <input type="checkbox"/> No
	7. 2 048 kbit/s	O	16	<input type="checkbox"/> Yes <input type="checkbox"/> No
	8. 8 448 kbit/s	O	17	<input type="checkbox"/> Yes <input type="checkbox"/> No
	9. 34 368 kbit/s	O	18	<input type="checkbox"/> Yes <input type="checkbox"/> No
	10. 139 264 kbit/s	O	19	<input type="checkbox"/> Yes <input type="checkbox"/> No
11. $n \times 64$ kbit/s	O	64	<input type="checkbox"/> Yes <input type="checkbox"/> No	
12. $n \times 8$ kbit/s	O	65	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERn.17.4	Source clock frequency recovery method	O		[]Yes []No
	1. Null	O	0	[]Yes []No
	2. Synchronous residual time stamp method	O	1	[]Yes []No
	3. Adaptive clock method	O	2	[]Yes []No
IERn.17.5	Error correction method	O		[]Yes []No
	1. Null	O	0	[]Yes []No
	2. FEC for loss sensitive signal transport	O	1	[]Yes []No
	3. FEC for delay sensitive signal transport	O	2	[]Yes []No
IERn.17.6	Structured data transfer block size	O		[]Yes []No
IERn.17.7	Partially filled cells method	O		[]Yes []No
IERn.17.8	Forward maximum CPCS-SDU size	O		[]Yes []No
IERn.17.9	Backward maximum CPCS-SDU size	O		[]Yes []No
IERn.17.10	MID range	O		[]Yes []No
IERn.17.11	SSCS type	O		[]Yes []No
	1. Null	O	0	[]Yes []No
	2. Data SSCS based on SSCOP (assured)	O	1	[]Yes []No
	3. Data SSCS based on SSCOP (non-assured)	O	2	[]Yes []No
	4. Frame relay SSCS	O	4	[]Yes []No
IERn.17.12	User defined AAL information	O		[]Yes []No

A.8.6.4 ATM traffic descriptor

Table A.113: ATM traffic descriptor Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERn.18.1	Forward peak cell rate (CLP = 0)	O	N/A	[]Yes []No
	Backward peak cell rate (CLP = 0)	O	N/A	[]Yes []No
	Forward peak cell rate (CLP = 0 + 1)	M	N/A	[]Yes []No
	Backward peak cell rate (CLP = 0 + 1)	M	N/A	[]Yes []No

A.8.6.5 Broadband bearer capability

See PICS proforma for EN 301 068-2.

Table A.114: Void

A.8.6.6 Broadband high layer information

Table A.115: Broadband high layer Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERn.24.1	High layer information type	M		[]Yes []No
	1. ISO/IEC	O	0	[]Yes []No
	2. User specific	O	1	[]Yes []No
	3. Vendor specific application identifier	O	3	[]Yes []No
	4. Reference to ITU-T SG 1 B-ISDN teleservice recommendation	O	4	[]Yes []No

A.8.6.7 Broadband low layer information

Table A.116: Broadband low layer Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERn.23.1	User information layer 2 protocol	<input type="radio"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. Basic mode ISO 1745	<input type="radio"/>	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. ITU-T Recommendation Q.921 (I.441)	<input type="radio"/>	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. ITU-T Recommendation X.25 link layer	<input type="radio"/>	6	<input type="checkbox"/> Yes <input type="checkbox"/> No
	4. ITU-T Recommendation X.25 multilink	<input type="radio"/>	7	<input type="checkbox"/> Yes <input type="checkbox"/> No
	5. Extended LAPB; for half duplex operation	<input type="radio"/>	8	<input type="checkbox"/> Yes <input type="checkbox"/> No
	6. HDLC ARM	<input type="radio"/>	9	<input type="checkbox"/> Yes <input type="checkbox"/> No
	7. HDLC NRM	<input type="radio"/>	10	<input type="checkbox"/> Yes <input type="checkbox"/> No
	8. HDLC ABM	<input type="radio"/>	11	<input type="checkbox"/> Yes <input type="checkbox"/> No
	9. LAN logical link control (ISO/IEC 8802-2)	<input type="radio"/>	12	<input type="checkbox"/> Yes <input type="checkbox"/> No
	10. ITU-T Recommendation X.75 SLP	<input type="radio"/>	13	<input type="checkbox"/> Yes <input type="checkbox"/> No
	11. ITU-T Recommendation Q.922	<input type="radio"/>	14	<input type="checkbox"/> Yes <input type="checkbox"/> No
	12. User specified	<input type="radio"/>	16	<input type="checkbox"/> Yes <input type="checkbox"/> No
	13. ISO/IEC 7776 DTE-DTE operation	<input type="radio"/>	17	<input type="checkbox"/> Yes <input type="checkbox"/> No
IERn.23.2	Mode of operation (octet 6a)	<input type="radio"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. Normal mode	<input type="radio"/>	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. Extended mode	<input type="radio"/>	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
IERn.23.3	ITU-T Recommendation Q.33 use	<input type="radio"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
IERn.23.4	User specified layer 2 protocol information	<input type="radio"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
IERn.23.5	Window size	<input type="radio"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
IERn.23.6	User information layer 3 protocol	<input type="radio"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. ITU-T Recommendation X.25, packet layer	<input type="radio"/>	6	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. ISO/IEC 8208	<input type="radio"/>	7	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. ITU-T Recommendation X.223 or ISO/IEC 8878	<input type="radio"/>	8	<input type="checkbox"/> Yes <input type="checkbox"/> No
	4. ITU-T Recommendation X.233 or ISO/IEC 8473-1	<input type="radio"/>	9	<input type="checkbox"/> Yes <input type="checkbox"/> No
	5. ITU-T Recommendation T.70	<input type="radio"/>	10	<input type="checkbox"/> Yes <input type="checkbox"/> No
	6. ISO/IEC TR 9577	<input type="radio"/>	11	<input type="checkbox"/> Yes <input type="checkbox"/> No
7. User specified	<input type="radio"/>	16	<input type="checkbox"/> Yes <input type="checkbox"/> No	
IERn.23.7	Mode of operation (octet 7a)	<input type="radio"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. Normal packet sequence numbering	<input type="radio"/>	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. Extended packet sequence numbering	<input type="radio"/>	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
IERn.23.8	User specified layer 3 protocol information	<input type="radio"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
IERn.23.9	Default packet size	<input type="radio"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. 16 octets	<input type="radio"/>	4	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. 32 octets	<input type="radio"/>	5	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. 64 octets	<input type="radio"/>	6	<input type="checkbox"/> Yes <input type="checkbox"/> No
	4. 128 octets	<input type="radio"/>	7	<input type="checkbox"/> Yes <input type="checkbox"/> No
	5. 256 octets	<input type="radio"/>	8	<input type="checkbox"/> Yes <input type="checkbox"/> No
	6. 512 octets	<input type="radio"/>	9	<input type="checkbox"/> Yes <input type="checkbox"/> No
	7. 1 024 octets	<input type="radio"/>	10	<input type="checkbox"/> Yes <input type="checkbox"/> No
	8. 2 048 octets	<input type="radio"/>	11	<input type="checkbox"/> Yes <input type="checkbox"/> No
	9. 4 096 octets	<input type="radio"/>	12	<input type="checkbox"/> Yes <input type="checkbox"/> No
IERn.23.10	Packet window size	<input type="radio"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
IERn.23.11	Additional layer 3 protocol information for ISO/IEC TR 9577	<input type="radio"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No

A.8.6.8 Call state

Table A.117: Call state Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERn.27.1	Call state value	M		[]Yes []No
	1. Null	M	0	[]Yes []No
	2. Call initiated	M	1	[]Yes []No
	3. Overlap sending	O	2	[]Yes []No
	4. Outgoing call proceeding	M	3	[]Yes []No
	5. Call delivered	M	4	[]Yes []No
	6. Call present	M	6	[]Yes []No
	7. Call received	M	7	[]Yes []No
	8. Connect request	M	8	[]Yes []No
	9. Incoming call proceeding	M	9	[]Yes []No
	10. Active	M	10	[]Yes []No
	11. Release request	M	11	[]Yes []No
	12. Release indication	M	12	[]Yes []No
	13. Overlap receiving	O	25	[]Yes []No
	14. Restart null	M	0	[]Yes []No
	15. Restart request	M	61	[]Yes []No
16. Restart	M	62	[]Yes []No	

A.8.6.9 Called party number

Table A.118: Called party number Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERn.5.1	Type of number	M		[]Yes []No
	1. Unknown	O	0	[]Yes []No
	2. International	O	1	[]Yes []No
	3. National	O	2	[]Yes []No
	4. Network specific	O	3	[]Yes []No
	5. Subscriber	O	4	[]Yes []No
IETn.5.2	6. Abbreviated	O	6	[]Yes []No
	Addressing/numbering plan identification	M		[]Yes []No
	1. Unknown	O	0	[]Yes []No
	2. ISDN numbering plan	O	1	[]Yes []No
	3. ATM end system address	O	2	[]Yes []No
	4. Data numbering plan	O	3	[]Yes []No
5. Private numbering plan	O	9	[]Yes []No	

A.8.6.10 Called party subaddress

Table A.119: Called party subaddress Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERn.6.1	Type of subaddress	M		[]Yes []No
	1. NSAP	O	0	[]Yes []No
	2. User specified ATM endsystem address	O	1	[]Yes []No
IERn.6.2	3. User specified	O	2	[]Yes []No
	Odd/even indicator	M		[]Yes []No
	1. Even number of address signals	O	0	[]Yes []No
2. Odd number of address signals	O	1	[]Yes []No	

A.8.6.11 Calling party number

Table A.120: Calling party number Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERn.15.1	Type of number	M		[]Yes []No
	1. Unknown	O	0	[]Yes []No
	2. International	O	1	[]Yes []No
	3. National	O	2	[]Yes []No
	4. Network specific	O	3	[]Yes []No
	5. Subscriber	O	4	[]Yes []No
IERn.15.2	6. Abbreviated	O	6	[]Yes []No
	Addressing/numbering plan identification	M		[]Yes []No
	1. Unknown	O	0	[]Yes []No
	2. ISDN numbering plan	O	1	[]Yes []No
	3. ATM end system address	O	2	[]Yes []No
IERn.15.3	4. Data numbering plan	O	3	[]Yes []No
	5. Private numbering plan	O	9	[]Yes []No
	Presentation indicator	O		[]Yes []No
IERn.15.4	1. Presentation allowed	O	0	[]Yes []No
	2. Presentation restricted	O	1	[]Yes []No
	3. Number not available	O	2	[]Yes []No
	Screening indicator	O		[]Yes []No
	1. User provided, not screened	O	0	[]Yes []No
	2. User provided, verified and passed	O	1	[]Yes []No
	3. User provided, verified and failed	O	2	[]Yes []No
	4. Network provided	O	3	[]Yes []No

A.8.6.12 Calling party subaddress

Table A.121: Calling party subaddress Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERn.16.1	Type of subaddress	M		[]Yes []No
	1. NSAP	O	0	[]Yes []No
	2. User specified ATM endsystem address	O	1	[]Yes []No
IERn.16.2	3. User specified	O	2	[]Yes []No
	Odd/even indicator	M		[]Yes []No
	1. Even number of address signals	O	0	[]Yes []No
	2. Odd number of address signals	O	1	[]Yes []No

A.8.6.13 Connection identifier

Table A.122: Connection identifier Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERn.19.1	VP-associated signalling	M		[]Yes []No
	1. VP-associated signalling	O	0	[]Yes []No
IERn.19.2	2. Explicit indication of VPCI	M	1	[]Yes []No
	Preferred/exclusive	M		[]Yes []No
	1. Exclusive VPCI, exclusive VCI	O	0	[]Yes []No
	2. Exclusive VPCI, any VCI	O	1	[]Yes []No

A.8.6.14 End-to-end transit delay

The end-to-end transit delay is now specified in clause 8.2.1 of Q.2965.2 in table end-to-end transit delay parameter.

A.8.6.15 Quality of service parameter

The quality of service parameter is now specified in ITU-T Recommendation Q.2965.1 in table QOS parameter.

A.8.6.16 Restart indicator

Table A.123: Restart indicator Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERn.8.1	Class	M		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. Indicated virtual channel	O	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. All VCs in indicated VPC controlled by the signalling VC	O	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. All VCs controlled by the layer 3 entity	O	2	<input type="checkbox"/> Yes <input type="checkbox"/> No

A.8.6.17 Transit network selection

Table A.124: Transit network selection Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERn.7.1	Type of network identification	M		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. User specified	O	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. National network identification	O	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. International network identification	O	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
IERn.7.2	Network identification plan	M		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. Unknown	O	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. Carrier identification code	O	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. Data network identification code	O	3	<input type="checkbox"/> Yes <input type="checkbox"/> No

A.8.6.18 OAM traffic descriptor

Table A.125: OAM traffic descriptor Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IERn.20.1	Shaping indicator	M		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. No user requirement	O	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. Aggregate shaping not allowed	O	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
IERn.20.2	Compliance indicator	M		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. Optional end-to-end OAM F5 flow	O	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. Mandatory end-to-end OAM F5 flow	O	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
IERn.20.3	User-network fault management indicator	M		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. No user-originated indications	O	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. Use of user-originated indications	O	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
IERn.20.4	Forward end-to-end OAM F5 flow indicator	M		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. 0 %	O	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. 0,1 %	O	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. 1 %	O	4	<input type="checkbox"/> Yes <input type="checkbox"/> No
IERn.20.5	Backward end-to-end OAM F5 flow indicator	M		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. 0 %	O	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. 0,1 %	O	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. 1 %	O	4	<input type="checkbox"/> Yes <input type="checkbox"/> No

A.8.7 Structure of Parameters transmitted

These tables are to be completed in order to evaluate the likelihood of successful interoperation of two implementations. The answers supplied are not used for conformance testing.

A.8.7.1 Broadband locking shift

Table A.126: Broadband locking shift Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETn.11.1	New codeset identification			<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. Codeset 4	M	4	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. Codeset 5	M	5	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. Codeset 6	M	6	<input type="checkbox"/> Yes <input type="checkbox"/> No
	4. Codeset 7	M	7	<input type="checkbox"/> Yes <input type="checkbox"/> No

A.8.7.2 Broadband non-locking shift

Table A.127: Broadband non-locking shift Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETn.12.1	Temporary codeset identification			<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. Codeset 0	M	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. Codeset 4	M	4	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. Codeset 5	M	5	<input type="checkbox"/> Yes <input type="checkbox"/> No
	4. Codeset 6	M	6	<input type="checkbox"/> Yes <input type="checkbox"/> No
	5. Codeset 7	M	7	<input type="checkbox"/> Yes <input type="checkbox"/> No

A.8.7.3 ATM adaptation layer parameters

Table A.128: ATM adaptation layer parameters Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETn.17.1	AAL type	M		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. AAL for voice	O	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. AAL type 1	O	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. AAL type 2	O	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
	4. AAL type 3/4	O	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
	5. AAL type 5	O	5	<input type="checkbox"/> Yes <input type="checkbox"/> No
	6. User defined AAL	O	16	<input type="checkbox"/> Yes <input type="checkbox"/> No
IETn.17.2	Subtype	O		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. Null	O	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. Voice-band signal transport based on 64 kbit/s	O	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. Circuit transport	O	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
	4. High-quality audio signal transport	O	4	<input type="checkbox"/> Yes <input type="checkbox"/> No
	5. Video signal transport	O	5	<input type="checkbox"/> Yes <input type="checkbox"/> No
IETn.17.3	CBR rate	O		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. 64 kbit/s	O	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. 1 544 kbit/s	O	4	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. 6 312 kbit/s	O	5	<input type="checkbox"/> Yes <input type="checkbox"/> No
	4. 32 064 kbit/s	O	6	<input type="checkbox"/> Yes <input type="checkbox"/> No
	5. 44 736 kbit/s	O	7	<input type="checkbox"/> Yes <input type="checkbox"/> No
	6. 97 728 kbit/s	O	8	<input type="checkbox"/> Yes <input type="checkbox"/> No
	7. 2 048 kbit/s	O	16	<input type="checkbox"/> Yes <input type="checkbox"/> No
	8. 8 448 kbit/s	O	17	<input type="checkbox"/> Yes <input type="checkbox"/> No
	9. 34 368 kbit/s	O	18	<input type="checkbox"/> Yes <input type="checkbox"/> No
	10. 139 264 kbit/s	O	19	<input type="checkbox"/> Yes <input type="checkbox"/> No
	11. $n \times 64$ kbit/s	O	64	<input type="checkbox"/> Yes <input type="checkbox"/> No
12. $n \times 8$ kbit/s	O	65	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETn.17.4	Source clock frequency recovery method	O		[]Yes []No
	1. Null	O	0	[]Yes []No
	2. Synchronous residual time stamp method	O	1	[]Yes []No
	3. Adaptive clock method	O	2	[]Yes []No
IETn.17.5	Error correction method	O		[]Yes []No
	1. Null	O	0	[]Yes []No
	2. FEC for loss sensitive signal transport	O	1	[]Yes []No
	3. FEC for delay sensitive signal transport	O	2	[]Yes []No
IETn.17.6	Structured data transfer block size	O		[]Yes []No
IETn.17.7	Partially filled cells method	O		[]Yes []No
IETn.17.8	Forward maximum CPCS-SDU size	O		[]Yes []No
IETn.17.9	Backward maximum CPCS-SDU size	O		[]Yes []No
IETn.17.10	MID range	O		[]Yes []No
IETn.17.11	SSCS type	O		[]Yes []No
	1. Null	O	0	[]Yes []No
	2. Data SSCS based on SSCOP (assured)	O	1	[]Yes []No
	3. Data SSCS based on SSCOP (non-assured)	O	2	[]Yes []No
	4. Frame relay SSCS	O	4	[]Yes []No
IETn.17.12	User defined AAL information	O		[]Yes []No

A.8.7.4 ATM traffic descriptor

Table A.129: ATM traffic descriptor Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETn.18.1	Forward peak cell rate (CLP = 0)	O	N/A	[]Yes []No
	Backward peak cell rate (CLP = 0)	O	N/A	[]Yes []No
	Forward peak cell rate (CLP = 0 + 1)	M	N/A	[]Yes []No
	Backward peak cell rate (CLP = 0 + 1)	M	N/A	[]Yes []No

A.8.7.5 Broadband bearer capability

See PICS proforma for EN 301 068-2.

Table A.130: Void

A.8.7.6 Broadband high layer information

Table A.131: Broadband high layer Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETn.24.1	High layer information type	M		[]Yes []No
	1. ISO/IEC	O	0	[]Yes []No
	2. User specific	O	1	[]Yes []No
	3. Vendor specific application identifier	O	3	[]Yes []No
	4. Reference to ITU-T SG 1 B-ISDN teleservice recommendation	O	4	[]Yes []No

A.8.7.7 Broadband low layer information

Table A.132: Broadband low layer Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETn.23.1	User information layer 2 protocol	<input type="radio"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. Basic mode ISO 1745	<input type="radio"/>	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. ITU-T Recommendation Q.921 (I.441)	<input type="radio"/>	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. ITU-T Recommendation X.25 link layer	<input type="radio"/>	6	<input type="checkbox"/> Yes <input type="checkbox"/> No
	4. ITU-T Recommendation X.25 multilink	<input type="radio"/>	7	<input type="checkbox"/> Yes <input type="checkbox"/> No
	5. Extended LAPB; for half duplex operation	<input type="radio"/>	8	<input type="checkbox"/> Yes <input type="checkbox"/> No
	6. HDLC ARM	<input type="radio"/>	9	<input type="checkbox"/> Yes <input type="checkbox"/> No
	7. HDLC NRM	<input type="radio"/>	10	<input type="checkbox"/> Yes <input type="checkbox"/> No
	8. HDLC ABM	<input type="radio"/>	11	<input type="checkbox"/> Yes <input type="checkbox"/> No
	9. LAN logical link control (ISO/IEC 8802-2)	<input type="radio"/>	12	<input type="checkbox"/> Yes <input type="checkbox"/> No
	10. ITU-T Recommendation X.75 SLP	<input type="radio"/>	13	<input type="checkbox"/> Yes <input type="checkbox"/> No
	11. ITU-T Recommendation Q.922	<input type="radio"/>	14	<input type="checkbox"/> Yes <input type="checkbox"/> No
	12. User specified	<input type="radio"/>	16	<input type="checkbox"/> Yes <input type="checkbox"/> No
13. ISO/IEC 7776 DTE-DTE operation	<input type="radio"/>	17	<input type="checkbox"/> Yes <input type="checkbox"/> No	
IETn.23.2	Mode of operation (octet 6a)	<input type="radio"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. Normal mode	<input type="radio"/>	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. Extended mode	<input type="radio"/>	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
IETn.23.3	ITU-T Recommendation Q.33 use	<input type="radio"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
IETn.23.4	User specified layer 2 protocol information	<input type="radio"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
IETn.23.5	Window size	<input type="radio"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
IETn.23.6	User information layer 3 protocol	<input type="radio"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. ITU-T Recommendation X.25, packet layer	<input type="radio"/>	6	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. ISO/IEC 8208	<input type="radio"/>	7	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. ITU-T Recommendation X.223 or ISO/IEC 8878	<input type="radio"/>	8	<input type="checkbox"/> Yes <input type="checkbox"/> No
	4. ITU-T Recommendation X.233 or ISO/IEC 8473-1	<input type="radio"/>	9	<input type="checkbox"/> Yes <input type="checkbox"/> No
	5. ITU-T Recommendation T.70	<input type="radio"/>	10	<input type="checkbox"/> Yes <input type="checkbox"/> No
	6. ISO/IEC TR 9577	<input type="radio"/>	11	<input type="checkbox"/> Yes <input type="checkbox"/> No
7. User specified	<input type="radio"/>	16	<input type="checkbox"/> Yes <input type="checkbox"/> No	
IETn.23.7	Mode of operation (octet 7a)	<input type="radio"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. Normal packet sequence numbering	<input type="radio"/>	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. Extended packet sequence numbering	<input type="radio"/>	2	<input type="checkbox"/> Yes <input type="checkbox"/> No
IETn.23.8	User specified layer 3 protocol information	<input type="radio"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
IETn.23.9	Default packet size	<input type="radio"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. 16 octets	<input type="radio"/>	4	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. 32 octets	<input type="radio"/>	5	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. 64 octets	<input type="radio"/>	6	<input type="checkbox"/> Yes <input type="checkbox"/> No
	4. 128 octets	<input type="radio"/>	7	<input type="checkbox"/> Yes <input type="checkbox"/> No
	5. 256 octets	<input type="radio"/>	8	<input type="checkbox"/> Yes <input type="checkbox"/> No
	6. 512 octets	<input type="radio"/>	9	<input type="checkbox"/> Yes <input type="checkbox"/> No
	7. 1 024 octets	<input type="radio"/>	10	<input type="checkbox"/> Yes <input type="checkbox"/> No
	8. 2 048 octets	<input type="radio"/>	11	<input type="checkbox"/> Yes <input type="checkbox"/> No
9. 4 096 octets	<input type="radio"/>	12	<input type="checkbox"/> Yes <input type="checkbox"/> No	
IETn.23.10	Packet window size	<input type="radio"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No
IETn.23.11	Additional layer 3 protocol information for ISO/IEC TR 9577	<input type="radio"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No

A.8.7.8 Call state

Table A.133: Call state Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETn.27.1	Call state value	M		[]Yes []No
	1. Null	M	0	[]Yes []No
	2. Call initiated	M	1	[]Yes []No
	3. Overlap sending	O	2	[]Yes []No
	4. Outgoing call proceeding	M	3	[]Yes []No
	5. Call delivered	M	4	[]Yes []No
	6. Call present	M	6	[]Yes []No
	7. Call received	M	7	[]Yes []No
	8. Connect request	M	8	[]Yes []No
	9. Incoming call proceeding	M	9	[]Yes []No
	10. Active	M	10	[]Yes []No
	11. Release request	M	11	[]Yes []No
	12. Release indication	M	12	[]Yes []No
	13. Overlap receiving	O	25	[]Yes []No
	14. Restart null	M	0	[]Yes []No
	15. Restart request	M	61	[]Yes []No
16. Restart	M	62	[]Yes []No	

A.8.7.9 Called party number

Table A.134: Called party number Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETn.5.1	Type of number	M		[]Yes []No
	1. Unknown	O	0	[]Yes []No
	2. International	O	1	[]Yes []No
	3. National	O	2	[]Yes []No
	4. Network specific	O	3	[]Yes []No
	5. Subscriber	O	4	[]Yes []No
IETn.5.2	Addressing/numbering plan identification	M		[]Yes []No
	1. Unknown	O	0	[]Yes []No
	2. ISDN numbering plan	O	1	[]Yes []No
	3. ATM end system address	O	2	[]Yes []No
	4. Data numbering plan	O	3	[]Yes []No
	5. Private numbering plan	O	9	[]Yes []No

A.8.7.10 Called party subaddress

Table A.135: Called party subaddress Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETn.6.1	Type of subaddress	M		[]Yes []No
	1. NSAP	O	0	[]Yes []No
	2. User specified ATM endsystem address	O	1	[]Yes []No
IETn.6.2	3. User specified	O	2	[]Yes []No
	Odd/even indicator	M		[]Yes []No
	1. Even number of address signals	O	0	[]Yes []No
	2. Odd number of address signals	O	1	[]Yes []No

A.8.7.11 Calling party number

Table A.136: Calling party number Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETn.15.1	Type of number	M		[]Yes []No
	1. Unknown	O	0	[]Yes []No
	2. International	O	1	[]Yes []No
	3. National	O	2	[]Yes []No
	4. Network specific	O	3	[]Yes []No
	5. Subscriber	O	4	[]Yes []No
IETn.15.2	6. Abbreviated	O	6	[]Yes []No
	Addressing/numbering plan identification	M		[]Yes []No
	1. Unknown	O	0	[]Yes []No
	2. ISDN numbering plan	O	1	[]Yes []No
	3. ATM addressing plan	O	2	[]Yes []No
IETn.15.3	4. Data numbering plan	O	3	[]Yes []No
	5. Private numbering plan	O	9	[]Yes []No
	Presentation indicator	O		[]Yes []No
IETn.15.4	1. Presentation allowed	O	0	[]Yes []No
	2. Presentation restricted	O	1	[]Yes []No
	3. Number not available	O	2	[]Yes []No
	Screening indicator	O		[]Yes []No
	1. User provided, not screened	O	0	[]Yes []No
	2. User provided, verified and passed	O	1	[]Yes []No
	3. User provided, verified and failed	O	2	[]Yes []No
	4. Network provided	O	3	[]Yes []No

A.8.7.12 Calling party subaddress

Table A.137: Calling party subaddress Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETn.16.1	Type of subaddress	M		[]Yes []No
	1. NSAP	O	0	[]Yes []No
	2. User specified ATM endsystem address	O	1	[]Yes []No
	3. User specified	O	2	[]Yes []No
IETn.16.2	Odd/even indicator	M		[]Yes []No
	1. Even number of address signals	O	0	[]Yes []No
	2. Odd number of address signals	O	1	[]Yes []No

A.8.7.13 Connection identifier

Table A.138: Connection identifier Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETn.19.1	VP-associated signalling	M		[]Yes []No
	1. VP-associated signalling	O	0	[]Yes []No
	2. Explicit indication of VPCI	M	1	[]Yes []No
IETn.19.2	Preferred/exclusive	M		[]Yes []No
	1. Exclusive VPCI, exclusive VCI	O	0	[]Yes []No
	2. Exclusive VPCI, any VCI	O	1	[]Yes []No

A.8.7.14 End-to-end transit delay

The end-to-end transit delay is now specified in clause 8.2.1 of ITU-T Recommendation Q.2965.2 in table end-to-end transit delay parameter.

A.8.7.15 Quality of service parameter

The quality of service parameter is now specified in ITU-T Recommendation Q.2965.1 in table QOS parameter.

A.8.7.16 Restart indicator

Table A.139: Restart indicator Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETn.8.1	Class	M		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. Indicated virtual channel	O	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. All VCs in indicated VPC controlled by the signalling VC	O	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. All VCs controlled by the layer 3 entity	O	2	<input type="checkbox"/> Yes <input type="checkbox"/> No

A.8.7.17 OAM traffic descriptor

Table A.140: OAM traffic descriptor Parameter contents

Item	Does the implementation support the Parameter field:	Status	Value	Support
IETn.20.1	Shaping indicator	M		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. No user requirement	O	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. Aggregate shaping not allowed	O	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
IETn.20.2	Compliance indicator	M		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. Optional end-to-end OAM F5 flow	O	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. Mandatory end-to-end OAM F5 flow	O	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
IETn.20.3	User-network fault management indicator	M		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. No user-originated indications	O	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. Use of user-originated indications	O	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
IETn.20.4	Forward end-to-end OAM F5 flow indicator	M		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. 0 %	O	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. 0,1 %	O	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. 1 %	O	4	<input type="checkbox"/> Yes <input type="checkbox"/> No
IETn.20.5	Backward end-to-end OAM F5 flow indicator	M		<input type="checkbox"/> Yes <input type="checkbox"/> No
	1. 0 %	O	0	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2. 0,1 %	O	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
	3. 1 %	O	4	<input type="checkbox"/> Yes <input type="checkbox"/> No

Annex B (informative): Change record

B.1 Changes with respect to ETS 300 443-2 edition 1

Table B.1

Clause	Details of change
2	Reference to EN 301 068-2 [4] inserted.
A.7.6.5	Table A.41 deleted; EN 301 068-2 [4] cited.
A.7.7.5	Table A.59 deleted; EN 301 068-2 [4] cited.
A.8.6.5	Table A.114 deleted; EN 301 068-2 [4] cited.
A.8.7.5	Table A.130 deleted; EN 301 068-2 [4] cited.

B.2 Changes with respect to ETS 300 443-2 edition 2

Introduction of CONNETION AVAILABLE message.

Introduction of Broadband report type and Notification Indicator Parameters.

Changes to references to NSAP.

Systematic numbering of Parameters and renumbering as a result of above changes.

History

Document history		
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