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European Standard (Telecommunications series)

Integrated Services Digital Network (ISDN); User Signalling Bearer Service (USBS); Digital Subscriber Signalling System No. one (DSS1) protocol; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification

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Contents

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Signalling Protocols and Switching (SPS), and is now submitted for the Public Enquiry phase of the ETSI standards Two-step Approval Procedure (TAP).

The present document is part 2 of a multi-part standard covering the Digital Subscriber Signalling System No. one (DSS1) protocol specification for the Integrated Services Digital Network (ISDN) User Signalling Bearer Service (USBS), as described below:

Part 1: "Protocol specification";

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".

Proposed national transposition dates	
Date of latest announcement of this EN (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	6 months after doa
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa

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 Open Systems Interconnection (OSI) 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 301 142-1 [1] is derived from ETS 300 403-1 [4], but as an implementation may conform to EN 301 142-1 [1] without conforming to ETS 300 403-1 [4], the PICS for the USBS is a complete document. However, EN 301 142-2 is based on ETS 300 403-3 [2] in the sense statements in the present document have been maintained where possible.

1 Scope

This second part of EN 301 142 provides the Protocol Implementation Conformance Statement (PICS) proforma for the Integrated Services Digital Network (ISDN) Digital Subscriber Signalling System No. one (DSS1) protocol for USBS as specified in EN 301 142-1 [1] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [4].

The supplier of an implementation that is claimed to conform to EN 301 142-1 [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 Normative references

References may be made to:

a) specific versions of publications (identified by date of publication, edition number, version number, etc.), in which case, subsequent revisions to the referenced document do not apply; or

b) all versions up to and including the identified version (identified by "up to and including" before the version identity); or

c) all versions subsequent to and including the identified version (identified by "onwards" following the version identity); or

d) publications without mention of a specific version, in which case the latest version applies.

A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

[1] EN 301 142-1(V1.1): "Integrated Services Digital Network (ISDN); User Signalling Bearer Service (USBS); Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

[2] ETS 300 403-3 (1995): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 3: Protocol Implementation Conformance Statement (PICS) proforma specification".

[3] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".

[4] ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

[5] ETS 300 403-1: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol: Signalling layer for circuit-mode basic call control; Part 1: Protocol specification".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following definitions apply, in addition to those in EN 301 142-1 [1], ISO/IEC 9646-1 [3] and ISO/IEC 9646-7 [4]:

Implementation Conformance Statement (ICS): A statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented. The ICS can take several forms: protocol ICS, profile ICS, profile specific ICS, and information object ICS (see ISO/IEC 9646-1 [3]).

network: The DSS1 protocol entity at the network side of the user-network interface.

Protocol Implementation Conformance Statement (PICS): An ICS for an implementation or system claimed to conform to a given specification (see ISO/IEC 9646-1 [3]).

PICS proforma: A document, in the form of a questionnaire, which when completed for an implementation or system becomes a PICS (see ISO/IEC 9646-1 [3]).

user: The DSS1 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:

AND	Boolean "and"
BC	Bearer Capability information element
CDP	Called Party information element
CGP	Calling Party information element
DSS1	Digital Subscriber Signalling System No. one
HLC	High Layer Compatibility information element
ICS	Implementation Conformance Statement
IS	Information element structure
ISDN	Integrated Services Digital Network
IUT	Implementation Under Test
M	Mandatory requirement (to be observed in all cases)
MC	Major Capabilities
MR	Messages Received
MT	Messages Transmitted
N/A	Not applicable, not supported or the conditions for status are not met
No	not supported
NOT	Boolean "not"
O	Option (may be selected to suit the implementation, provided that any requirements applicable to the option are observed)
O.n	Options, but support required for either at least one or only one of the options in the group labelled with the same numeral "n"
OR	Boolean "or"
OSI	Open Systems Interconnection
PABX	Private Automatic Branch eXchange
PDU	Protocol Data Unit
PICS	Protocol Implementation Conformance Statement
R	Roles
SC	Subsidiary Capabilities
SDU	Service Data Unit
SUT	System Under Test
(T)	Transparent (PDU parameter)
TI	Type of Implementation
TM	Timer
USBS	User Signalling Bearer Service
Yes	supported

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 301 142-1 [1];

b) be a conforming PICS proforma, which has been completed in accordance with the instructions for completion given in clause A.1; and

c) include the information necessary to uniquely identify both the supplier and the implementation.

Annex A (normative): PICS proforma for EN 301 142-1

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 301 142-1 [1] may provide information in a standardized manner.

The PICS proforma is subdivided into clauses as follows:

- A.1: instructions 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; and
- A.8: questions for the network role.

A.1.2 Symbols, 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 [4].

Item column:

The item column contains a unique reference (a mnemonic plus a number) for each item within the PICS proforma.

EN 301 142-2 is based on ETS 300 403-3 [2] which implies that a statement in ETS 300 403-3 [2] applying for EN 301 142-2 has been maintained with the same item reference number as in ETS 300 403-3 [2]. Therefore discontinuities in these numbers will appear.

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 [4], are used for the status column:

I	Irrelevant or out-of-scope - this capability is outside the scope of the ETS 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 an 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.

NOTE: To support a capability means that the capability is implemented in conformance to EN 301 142-1 [1].

Reference column:

Except where explicitly stated, the reference column refers to the appropriate parts of EN 301 142-1 [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 301 142-1 [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 [4], is used for the support column:

[ ] Yes [ ] No	Tick "Yes" if item is supported, 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 subclause heading or table title indicates that the whole subclause 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 tickbox, 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 subclause 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:

.....

E-mail address:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

Additional information:

.....

.....

.....

A.2.5 Client

Name:

.....

E-mail address:

.....

Address:

.....

.....

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Telephone number:

.....

Facsimile number:

.....

Additional information:

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A.2.6 PICS contact person

Name:

.....

E-mail address:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

Additional information:

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.....

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

This PICS proforma applies to the following standards:

EN 301 142-1 (V1.1): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; User Signalling Bearer Service (USBS); Part 1: Protocol specification".

A.4 The 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 (i.e. one ISDN Basic access or one ISDN Primary rate access interface structure). If the SUT implements both Basic access and Primary rate access interface structures, and in the case of the Basic access, supports 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 and the type of interface (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. The supplier shall also provide answers to the questions relating to the type of interface supporting the IUT (the behaviour of the IUT is dependant on the type of interface and its configuration). Apart from the initial questions to determine roles, the major roles of the IUT - the user role (R 2.1) and the network role (R 2.2), are treated completely separately in the PICS proforma. It is only necessary to complete the questions for the supported role. The answers to the "type of interface" questions (represented by items R 3.x, R 6.x and R 7.x) condition the answers to the further questions within each major role (user and network).

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 PDU parameter tables

The conditions governing when an individual information element has to be supported in a specific message are quite complex. This is particularly so for the Bearer capability, and High layer compatibility information elements when they are transmitted by an IUT in the user role. To make the conditions for status easier to understand questions about these information elements have been split into several sub-items.

A.4.4 Support for received PDU parameters

In the PDU parameter tables (subclauses 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 subclause explains, in the context of EN 301 142-1 [1], what "to support a received PDU parameter" means.

The requirement that an IUT is able to parse an information element 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.

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

A non-transparent information element is one that causes the protocol control entity to vary its behaviour in accordance with the content of the information element. To support a non-transparent information element means an IUT can process the received parameter and behave according to the procedures described in EN 301 142-1 [1].

An information element is transparent if the actions taken according to its contents are not detectable in the subsequent behaviour of the protocol (i.e. EN 301 142-1 [1] does not specify the protocol behaviour). To support a transparent information element means an IUT can receive the information element concerned and pass it to an appropriate processing entity (e.g. call control); the information element is not discarded by the protocol control entity. Non-support of a transparent information element means the IUT discards it.

Where EN 301 142-1 [1], in addition to not specifying the protocol behaviour, does not specify the non-protocol behaviour, transparent parameters have been allocated the status Irrelevant (I). In such cases the Client may choose not to answer whether or not the IUT supports the item. If the item is claimed to be supported, an explanation shall be given in the comments field of the table indicating what actions are performed on receipt of the parameter.

This PICS proforma considers the Cause, Display, and Keypad facility information elements to be transparent in all circumstances where they are possible to be received. Other information elements may be transparent in some circumstances (e.g. High layer compatibility when received by the network). Transparent parameters are marked by "(T)" in the PDU parameter tables.

A.5 Global statement of conformance

The implementation described in this PICS meets 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	not used				
	Major role				
R 2.1	the user role		O.1		[ ]Yes [ ]No
R 2.2	the network role		O.1		[ ]Yes [ ]No
	Type of interface				
R 3.1	requirements at the coincident S and T reference point		O.2		[ ]Yes [ ]No
R 3.2	requirements for interworking with private ISDNs at the T reference point		O.2		[ ]Yes [ ]No
R 4	not used				
R 5	not used				
R 6.1	basic access		O.3		[ ]Yes [ ]No
R 6.2	primary rate access		O.3		[ ]Yes [ ]No
R 7.1	point-to-point configuration	R 6.1 R 6.2	O.4 M		[ ]Yes [ ]No
R 7.2	multi-point configuration	R 6.1 R 6.2	O.4 N/A		[ ]Yes [ ]No [ ]N/A
O.1 Support of one, and only one, of these options is required. O.2 Support of one, and only one, of these options is required. O.3 Support of one, and only one, of these options is required. O.4 Support of one, and only one, of these options is required.					
Comments:					

A.7 User

The tables provided in this subclause need only to be completed for user implementations.

Prerequisite: R 2.1

A.7.1 Type of implementation

Not applicable.

A.7.2 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 subclauses of EN 301 142-1 [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.5	9.1	[ ]Yes [ ]No
MCu 1.1	called party addressing information sent only in the SETUP message (en-bloc sending)	MCu 1 NOT MCu 1	O.6 N/A	9.1.1, 9.1.4	[ ]Yes [ ]No [ ]N/A
MCu 1.2	called party addressing information split across, and sent in, SETUP and INFORMATION messages (overlap sending)	MCu 1 NOT MCu 1	O.6 N/A	9.1.2, 9.1.4	[ ]Yes [ ]No [ ]N/A
MCu 1.4	transit network selection	MCu 1 NOT MCu 1	O N/A	9.1.1, annex C	[ ]Yes [ ]No [ ]N/A
MCu 1.7	generation of local tones and local alerting indications	MCu 1 NOT MCu 1	O N/A	9.1.5	[ ]Yes [ ]No [ ]N/A
	Call establishment at the destination interface				
MCu 2	incoming calls		O.5	9.2	[ ]Yes [ ]No
MCu 2.1	called party addressing information sent only in the SETUP message (en-bloc receiving)	MCu 2 NOT MCu 2	M N/A	9.2.1, 9.2.4	[ ]Yes [ ]No [ ]N/A
MCu 2.2	called party addressing information split across, and sent in, SETUP and INFORMATION messages (overlap receiving)	MCu 2 NOT MCu 2	O N/A	9.2.1, 9.2.3, 9.2.4	[ ]Yes [ ]No [ ]N/A
MCu 2.4	acceptance of the SETUP message on a point-to-point data link	MCu 2 AND R 7.1 NOT MCu 2 OR NOT R 7.1	M N/A	9.2.1	[ ]Yes [ ]No [ ]N/A
MCu 2.5	acceptance of the SETUP message on a broadcast data link	MCu 2 AND R 7.2 NOT MCu 2 OR NOT R 7.2	M N/A	9.2.1	[ ]Yes [ ]No [ ] N/A
MCu 2.7	compatibility checking	MCu 2 NOT MCu 2	M N/A	9.2.2, annex B	[ ]Yes [ ]No [ ]N/A
	Information transfer				
MCu 3	transfer of SDUs		O	9.3.1	[ ]Yes [ ]No
MCu 3.1	flow control	MCu 3 AND R 3.1 NOT MCu 3 OR NOT R 3.1	M N/A	9.3.2	[ ]Yes [ ]No [ ]N/A
MCu 3.2	congestion control	MCu 3 NOT MCu 3	M N/A	9.3.3	[ ]Yes [ ]No [ ]N/A
	Others				
MCu 4	initiation of call clearing		M	9.4.2	[ ]Yes [ ]No
MCu 5.1	restart procedure (interpretation of a received RESTART message)	R 7.1 NOT R 7.1	M O	9.5.2	[ ]Yes [ ]No
MCu 5.2	initiation of restart procedure	R 7.1 NOT R 7.1	M O	9.5.1	[ ]Yes [ ]No
MCu 7.1	response procedure to status enquiry request		M	9.7	[ ]Yes [ ]No
MCu 7.2	initiation of status enquiry procedure		O	9.7	[ ]Yes [ ]No
MCu 9	invocation of network specific facility selection	MCu 1 NOT MCu 1	O N/A	annex D	[ ]Yes [ ]No [ ]N/A
MCu 13	message segmentation procedures		O	annex E	[ ]Yes [ ]No
MCu 19	handling of error conditions		M	9.7	[ ]Yes [ ]No
O.5 Support of at least one of these options is required. O.6 Support of at least one of these options is required.					
Comments:					

A.7.3 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
	General				
SCu 2.1	use of a 1 octet call reference value for Basic access	R 6.1 NOT R 6.1	M N/A	7.2	[ ]Yes [ ]No [ ]N/A
SCu 2.2	use of a 2 octet call reference value for Primary rate access	R 6.2 NOT R 6.2	M N/A	7.2	[ ]Yes [ ]No [ ]N/A
SCu 2.3	use of a 1 octet call reference value for Primary rate access	R 6.2 NOT R 6.2	X N/A	7.2	[ ]Yes [ ]No [ ]N/A
	Call establishment at the originating interface				
SCu 1.1	sending of the called party address information in the Called party number information element	MCu 1 NOT MCu 1	M N/A	9.1.1, 9.1.2	[ ]Yes [ ]No [ ]N/A
SCu 1.2	sending of the called party address information in the Keypad facility information element	MCu 1 NOT MCu 1	X N/A	9.1.1, 9.1.2	[ ]Yes [ ]No [ ]N/A
SCu 100	use of the sending complete indication	MCu 1 NOT MCu 1	O N/A	9.1.1, 9.1.2	[ ]Yes [ ]No [ ]N/A
SCu 101	use of the Sending complete information element as the sending complete indication	SCu 100 NOT SCu 100	M N/A	9.1.1, 9.1.2	[ ]Yes [ ]No [ ]N/A
SCu 102	use of "#" as the sending complete indication	SCu 100 NOT SCu 100	X N/A	9.1.1	[ ]Yes [ ]No [ ]N/A
SCu 3	sending of CONNECT ACKNOWLEDGE message during outgoing call establishment	MCu 1 NOT MCu 1	O N/A	9.1.6	[ ]Yes [ ]No [ ]N/A
	Call establishment at the destination interface				
SCu 110	permanent data link connection (establishment as soon as the TEI is assigned, and retained indefinitely)		O	9.2	[ ]Yes [ ]No
SCu 111	recognition of sending complete indication	MCu 2.2 MCu 2 AND NOT MCu 2.2 NOT MCu 2	M O N/A	9.2.1	[ ]Yes [ ]No [ ]N/A
SCu 112.1	recognition of the Sending complete information element as the sending complete indication	SCu 111 NOT SCu 111	M N/A	9.2.1	[ ]Yes [ ]No [ ]N/A
SCu 112.2	recognition of "#" as the sending complete indication		N/A	9.2.1	N/A
SCu 5	compatibility checking of the bearer service	MCu 2 NOT MCu 2	M N/A	9.2.2, annex B.3.2	[ ]Yes [ ]No [ ]N/A
SCu 8	compatibility checking of the higher layers	MCu 2 NOT MCu 2	O N/A	9.2.2, annex B.3.3	[ ]Yes [ ]No [ ]N/A
SCu 114.1	ignoring of incompatible incoming calls on a broadcast data link	R 7.2 NOT R 7.2	O.7 N/A	9.2.2	[ ]Yes [ ]No [ ]N/A
SCu 114.2	rejection of incompatible incoming calls on a broadcast data link	R 7.2 NOT R 7.2	O.7 N/A	9.2.2	[ ]Yes [ ]No [ ]N/A
SCu 115	rejection of incompatible incoming calls on a point-to-point data link	R 7.1 NOT R 7.1	M N/A	9.2.2.	[ ]Yes [ ]No [ ]N/A
SCu 116	rejection of compatible incoming calls with cause no. 17 "user busy"	MCu 2 AND R 3.1 MCu 2 AND R 3.2 NOT MCu 2	M X N/A	9.2.4	[ ]Yes [ ]No [ ]N/A
	Information transfer				
S**C**u 117	collection of SDUs in blocks by means of the More data information element	Mcu 3 NOT Mcu 3	O N/A	9.3.1	[ ]Yes [ ]No [ ]N/A
	Restart				
SCu 125.2	initiation of restart procedure on "single interface" (or "all interfaces")	MCu 5.2 NOT MCu 5.2	N/A	9.5.1	[ ]Yes [ ]No [ ]N/A
	Handling of error conditions				
SCu 130.1	discarding an "inappropriate" message received in a DL-UNIT DATA-INDICATION primitive (note)		O.8	9.7	[ ]Yes [ ]No

(continued)

Table A.3 (concluded): Subsidiary capabilities of the user role

Item	Subsidiary capability Does the implementation support...	Conditions for status	Status	Reference	Support
SCu 130.2	processing of an "inappropriate" message received in a DL-UNIT DATA-INDICATION primitive as if it had been received in a DL-DATA-INDICATION primitive (note)		O.8	9.7	[ ]Yes [ ]No
SCu 131.1	call clearing with a RELEASE message, on receiving any message other than SETUP, RELEASE, RELEASE COMPLETE, STATUS, STATUS ENQUIRY, or RESUME with an unrecognisable Call reference value.		O.9	9.7	[ ]Yes [ ]No
SCu 131.2	call clearing with a RELEASE COMPLETE message, on receiving any message other than SETUP, RELEASE, RELEASE COMPLETE, STATUS, STATUS ENQUIRY, or RESUME with an unrecognisable Call reference value.		O.9	9.7	[ ]Yes [ ]No
SCu 19	on occurrence of a message type or message sequence error, transmission of a STATUS message		O.10	9.7	[ ]Yes [ ]No
SCu 20	on occurrence of a message type or message sequence error, initiation of the status enquiry procedure		O.10	9.7	[ ]Yes [ ]No
SCu 23	processing of out of sequence information elements		O.11	9.7	[ ]Yes [ ]No
SCu 24	ignoring out of sequence information elements		O.11	9.7	[ ]Yes [ ]No
SCu 32	on occurrence of unrecognized information element error with information element not encoded to indicate "comprehension required", transmission of a STATUS message		O	9.7	[ ]Yes [ ]No
SCu 132	Cause no. 99 "Information element non-existent or not implemented" with diagnostic(s)		O	9.7	[ ]Yes [ ]No
SCu 37	on occurrence of non-mandatory information element content error, transmission of a STATUS message		O	9.7	[ ]Yes [ ]No
SCu 37.1	acceptance of unrecognized Cause information element contents		O	9.7	[ ]Yes [ ]No
	Data link failure				
SCu 45.1	transmission of a STATUS message		O.12	9.7	[ ]Yes [ ]No
SCu 45.2	initiation of the status enquiry procedure		O.12	9.7	[ ]Yes [ ]No
	Status enquiry procedure				
SCu 47	retransmission of STATUS ENQUIRY message one or more times, up to an implementation dependent limit	MCu 7.2 NOT MCu 7.2	O N/A	9.7	[ ]Yes [ ]No [ ]N/A
	Receiving a STATUS message				
SCu 160.1	clearing the call on a call state mismatch		O.13	9.7	[ ]Yes [ ]No
SCu 160.2	attempt to recover from a call state mismatch by implementation dependent means		O.13	9.7	[ ]Yes [ ]No

O.7 Support of at least one of these options is required.O.8 Support of one, and only one, of these options is required.
O.9 Support of at least one of these options is required.
O.10 Support of at least one of these options is required.
O.11 Support of at least one of these options is required.
O.12 Support of at least one of these options is required.
O.13 Support of at least one of these options is required.

NOTE: "Inappropriate" messages are those that are neither a SETUP message, nor a message specified to use the data link unacknowledged information transfer service in support of another implemented application.

Comments:

A.7.4 Protocol data units

The tables in this subclause ask questions related to the supported Protocol Data Units (PDUs) in the user role. In the DSS1 protocol, PDUs are known by the term "messages".

A.7.4.1 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 301 142-1 [1].

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	7.1.1, 9.1.5	[ ]Yes [ ]No [ ]N/A
MRu 2	CALL PROCEEDING	MCu 1 NOT MCu 1	M N/A	7.1.2, 9.1.4	[ ]Yes [ ]No [ ]N/A
MRu 4	CONNECT	MCu 1 NOT MCu 1	M N/A	7.1.3, 9.1.6	[ ]Yes [ ]No [ ]N/A
MRu 5	CONNECT ACKNOWLEDGE	MCu 2 NOT MCu 2	M N/A	7.1.4, 9.2.6	[ ]Yes [ ]No [ ]N/A
MRu 7	FACILITY	MCu 3 NOT MCu 3	M	7.1.5, 9.3.2, 9.3.3	[ ]Yes [ ]No [ ]N/A
MRu 8	INFORMATION	MCu 2.2 NOT MCu 2.2	M O	7.1.6, 9.2.3	[ ]Yes [ ]No
MRu 9	NOTIFY		M	7.1.7, 9.8	[ ]Yes [ ]No
MRu 11	RELEASE		M	7.1.8, 9.4	[ ]Yes [ ]No
MRu 12	RELEASE COMPLETE		M	7.1.9, 9.4	[ ]Yes [ ]No
MRu 13	RESTART	MCu 5.1 NOT MCu 5.1	M N/A	7.1.10, 9.5.2	[ ]Yes [ ]No [ ]N/A
MRu 14	RESTART ACKNOWLEDGE	MCu 5.2 NOT MCu 5.2	M N/A	7.1.11, 9.5.1	[ ]Yes [ ]No [ ]N/A
MRu 18	SEGMENT	MCu 13 NOT MCu 13	M N/A	7.1.12, annex E	[ ]Yes [ ]No [ ]N/A
MRu 19	SETUP	MCu 2 NOT MCu 2	M N/A	7.1.13, 9.2.1	[ ]Yes [ ]No [ ]N/A
MRu 20	SETUP ACKNOWLEDGE	MCu 1.2 NOT MCu 1.2	M N/A	7.1.14, 9.1.2	[ ]Yes [ ]No [ ]N/A
MRu 21	STATUS		M	7.1.15, 9.7	[ ]Yes [ ]No
MRu 22	STATUS ENQUIRY		M	7.1.16, 9.7	[ ]Yes [ ]No
MRu 26	USER INFORMATION	MCu 3 NOT MCu 3	M N/A	7.1.17, 9.3	[ ]Yes [ ]No [ ]N/A
Comments:					

A.7.4.2 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 transmission of...	Conditions for status	Status	Reference	Support
MTu 1	ALERTING	MCu 2 NOT MCu 2	O N/A	7.1.1, 9.2.4	[ ]Yes [ ]No [ ]N/A
MTu 2	CALL PROCEEDING	MCu 2 NOT MCu 2	O N/A	7.1.2, 9.2.4	[ ]Yes [ ]No [ ]N/A
MTu 4	CONNECT	MCu 2 NOT MCu 2	M N/A	7.1.3, 9.2.5	[ ]Yes [ ]No [ ]N/A
MTu 5	CONNECT ACKNOWLEDGE	MCu 1 NOT MCu 1	O N/A	7.1.4, 9.1.6	[ ]Yes [ ]No [ ]N/A
MTu 7	FACILITY	MCu 3 NOT MCu 3	M	7.1.5, 9.3.2, 9.3.3	[ ]Yes [ ]No [ ]N/A
MTu 8	INFORMATION	MCu 1.2 NOT MCu 1.2	M O	7.1.6, 9.1.2	[ ]Yes [ ]No
MTu 9	NOTIFY	MCu 20 NOT MCu 20	M N/A	7.1.7, 9.8	[ ]Yes [ ]No [ ]N/A
MTu 11	RELEASE		M	7.1.8, 9.4	[ ]Yes [ ]No
MTu 12	RELEASE COMPLETE		M	7.1.9, 9.4	[ ]Yes [ ]No
MTu 13	RESTART	MCu 5.2 NOT MCu 5.2	M N/A	7.1.10, 9.5.1	[ ]Yes [ ]No [ ]N/A
MTu 14	RESTART ACKNOWLEDGE	MCu 5.1 NOT MCu 5.1	M N/A	7.1.11, 9.5.2	[ ]Yes [ ]No [ ]N/A
MTu 18	SEGMENT	MCu 13 NOT MCu 13	M N/A	7.1.12, annex E	[ ]Yes [ ]No [ ]N/A
MTu 19	SETUP	MCu 1 NOT MCu 1	M N/A	7.1.13, 9.1.1	[ ]Yes [ ]No [ ]N/A
MTu 20	SETUP ACKNOWLEDGE	MCu 2.2 NOT MCu 2.2	M O	7.1.14, 9.2.3	[ ]Yes [ ]No
MTu 21	STATUS		M	7.1.15, 9.7	[ ]Yes [ ]No
MTu 22	STATUS ENQUIRY	MCu 7.2 NOT MCu 7.2	M N/A	7.1.16, 9.7	[ ]Yes [ ]No [ ]N/A
MTu 26	USER INFORMATION	MCu 3 NOT MCu 3	M N/A	7.1.17, 9.3	[ ]Yes [ ]No [ ]N/A
Comments:					

A.7.5 PDU parameters

The tables in this subclause ask questions related to the support of PDU parameters in messages received and transmitted by the IUT in the user role. In DSS1, protocol PDU parameters are known by the term "information elements".

Subclause A.7.5.1 contains tables relating to messages received by the IUT in the user role. Subclause A.7.5.2 contains tables relating to messages transmitted by the IUT in the user role.

Tables A.6 and A.7 deal with four information elements that appear in all messages that are either received or transmitted (respectively) by the IUT in the user role.

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

Item	Information element	Conditions for status	Status	Reference	Support
MRu-IE29	Protocol discriminator		M	7.1, 7.2	[ ]Yes [ ]No
MRu-IE30	Call reference		M	7.1, 7.3	[ ]Yes [ ]No
MRu-IE31	Message type		M	7.1, 7.3	[ ]Yes [ ]No
MRu-IE25	Shift		M	7.1, 7.2	[ ]Yes [ ]No
Comments:					

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

Item	Information element	Conditions for status	Status	Reference	Support
MTu-IE29	Protocol discriminator		M	7.1, 7.23.1, 4.2	[ ]Yes [ ]No
MTu-IE30	Call reference		M	7.1, 7.23.1, 4.3	[ ]Yes [ ]No
MTu-IE31	Message type		M	7.1, 7.23.1, 4.4	[ ]Yes [ ]No
MTu-IE25	Shift		O	7.1, 7.23.1, 4.5.2, 4.5.3, 4.5.4	[ ]Yes [ ]No
Comments:					

Table A.8 covers those information elements defined by ETS 300 403-1 [5], the use of which is outside the scope of EN 301 142-1 [1].

Table A.8: Information elements outside the scope of EN 301 142-1 [1]

Item	Information element	Conditions for status	Status	Reference	Support
Mn-IE2	Call identity		I	4.5.6	[ ]Yes [ ]No
Mn-IE16	Low layer compatibility		I	4.5.19	[ ]Yes [ ]No
Mn-IE20	Progress indicator		I	4.5.23	[ ]Yes [ ]No
Comments:					

A.7.5.1 Information elements in messages received by the user

Indicating support for an item in the tables in this subclause states that the implementation has the ability to process the information elements listed in the specified received messages. Such support does not necessarily mean that the indicated information element is included in every instance of the received message.

Table A.9: Information elements in ALERTING received by the user

Item	Information element	Conditions for status	Status	Reference	Support
MRu1-IE12	Display (T) (note)	MRu 1 NOT MRu 1	O N/A	7.1.1	[ ]Yes [ ]No [ ]N/A
NOTE: The support of this parameter implies the ability to display the information supplied. If not supported, its handling is beyond the scope of EN 301 142-1 [1].					
Comments:					

Table A.10: Information elements in CALL PROCEEDING received by the user

Item	Information element	Conditions for status	Status	Reference	Support
MRu2-IE12	Display (T) (note)	MRu 2 NOT MRu 2	O N/A	7.1.2	[ ]Yes [ ]No [ ]N/A
NOTE: The support of this parameter implies the ability to display the information supplied. If not supported, its handling is beyond the scope of EN 301 142-1 [1].					
Comments:					

Table A.11: Information elements in CONNECT received by the user

Item	Information element	Conditions for status	Status	Reference	Support
MRu4-IE12	Display (T) (note)	MRu 4 NOT MRu 4	O N/A	7.1.3	[ ]Yes [ ]No [ ]N/A
MRu4-IE11	Date/time (T)		I	7.1.3	[ ]Yes [ ]No [ ]N/A
NOTE: The support of this parameter implies the ability to display the information supplied. If not supported, its handling is beyond the scope of EN 301 142-1 [1].					
Comments:					

Table A.12: Information elements in CONNECT ACKNOWLEDGE received by the user

Item	Information element	Conditions for status	Status	Reference	Support
MRu5-IE12	Display (T) (note)	MRu 5 NOT MRu 5	O N/A	7.1.4	[ ]Yes [ ]No [ ]N/A
NOTE: The support of this parameter implies the ability to display the information supplied. If not supported, its handling is beyond the scope of EN 301 142-1 [1].					
Comments:					

Table A.13: Information elements in FACILITY received by the user

Item	Information element	Conditions for status	Status	Reference	Support
MRu-IE13	Facility	MRu 7 NOT MRu 7	M N/A	7.1.5	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.14: Information elements in INFORMATION received by the user

Item	Information element	Conditions for status	Status	Reference	Support
MRu8-IE24	Sending complete	MRu 8 AND MCu 2.2 NOT MRu 8 OR NOT MCu 2.2	M N/A	7.1.6, 9.2.3	[ ]Yes [ ]No [ ]N/A
MRu8-IE8	Cause (T)		I	7.1.6	[ ]Yes [ ]No [ ]N/A
MRu8-IE12	Display (T) (note 1)	MRu 8 NOT MRu 8	O N/A	7.1.6	[ ]Yes [ ]No [ ]N/A
MRu8-IE15	Keypad facility (T) (note 2)	MRu 8 NOT MRu 8	O N/A	7.1.6	[ ]Yes [ ]No [ ]N/A
MRu8-IE4	Called party number	MRu 8 AND MCu 2.2 NOT MRu 8 OR NOT MCu 2.2	M N/A	7.1.6, 9.2.3	[ ]Yes [ ]No [ ]N/A
NOTE 1: The support of this parameter implies the ability to display the information supplied. If not supported, its handling is beyond the scope of EN 301 142-1 [1]. NOTE 2: The support of this parameter implies the use of the information supplied in connection with one or more supplementary services.					
Comments:					

Table A.15: Information elements in NOTIFY received by the user

Item	Information element	Conditions for status	Status	Reference	Support
MRu9-IE19	Notification indicator		M	7.1.7, 9.8	[ ]Yes [ ]No
MRu9-IE12	Display (T) (note)		O	7.1.7	[ ]Yes [ ]No
NOTE: The support of this parameter implies the ability to display the information supplied. If not supported, its handling is beyond the scope of EN 301 142-1 [1].					
Comments:					

Table A.16: Information elements in RELEASE received by the user

Item	Information element	Conditions for status	Status	Reference	Support
MRu11-IE8	Cause (T)		M	7.1.8, 9.4	[ ]Yes [ ]No
MRu11-IE12	Display (T) (note)		O	7.1.8	[ ]Yes [ ]No
NOTE: The support of this parameter implies the ability to display the information supplied. If not supported, its handling is beyond the scope of EN 301 142-1 [1].					
Comments:					

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

Item	Information element	Conditions for status	Status	Reference	Support
MRu12-IE8	Cause (T)		I	7.1.9, 9.4	[ ]Yes [ ]No
MRu12-IE12	Display (T) (note)		O	7.1.9	[ ]Yes [ ]No
NOTE: The support of this parameter implies the ability to display the information supplied. If not supported, its handling is beyond the scope of EN 301 142-1 [1].					
Comments:					

Table A.18: Information elements in RESTART received by the user

Item	Information element	Conditions for status	Status	Reference	Support
MRu13-IE12	Display (T) (note)	MRu 13 NOT MRu 13	O N/A	7.1.10	[ ]Yes [ ]No [ ]N/A
MRu13-IE22	Restart indicator	MRu 13 NOT MRu 13	M N/A	7.1.10, 9.5.2	[ ]Yes [ ]No [ ]N/A
NOTE: The support of this parameter implies the ability to display the information supplied. If not supported, its handling is beyond the scope of EN 301 142-1 [1].					
Comments:					

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

Item	Information element	Conditions for status	Status	Reference	Support
MRu14-IE12	Display (T) (note)	MRu 14 NOT MRu 14	O N/A	7.1.11	[ ]Yes [ ]No [ ]N/A
MRu14-IE22	Restart indicator	MRu 14 NOT MRu 14	M N/A	7.1.11, 9.5.1	[ ]Yes [ ]No [ ]N/A
NOTE: The support of this parameter implies the ability to display the information supplied. If not supported, its handling is beyond the scope of EN 301 142-1 [1].					
Comments:					

Table A.20: Information elements in SEGMENT received by the user

Item	Information element	Conditions for status	Status	Reference	Support
MRu18-IE23	Segmented message	MRu 18 NOT MRu 18	M N/A	7.1.12, annex E	[ ]Yes [ ]No [ ]N/A
MRu18-IEx	"Segment"	MRu 18 NOT MRu 18	M N/A	7.1.12, annex E	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.21: Information elements in SETUP received by the user

Item	Information element	Conditions for status	Status	Reference	Support
MRu19-IE24	Sending complete	MRu 19 AND MCu 2.2 MRu 19 AND NOT MCu 2.2 NOT MRu 19	M O N/A	7.1.13, 9.2.1, 9.2.1	[ ]Yes [ ]No [ ]N/A
MRu19-IE1	Bearer capability	MRu 19 NOT MRu 19	M N/A	7.1.13, 9.2.1, , annex B	[ ]Yes [ ]No [ ]N/A
MRu19-IE18	Network specific facilities (T)		I	7.1.13, annex D	[ ]Yes [ ]No
MRu19-IE12	Display (T) (note 1)	MRu 19 NOT MRu 19	O N/A	7.1.13,9.2.1	[ ]Yes [ ]No [ ]N/A
MRu19-IE15	Keypad facility (T) (note 2)	MRu 19 NOT MRu 19	O N/A	7.1.13	[ ]Yes [ ]No [ ]N/A
MRu19-IE6	Calling party number	MRu 19 NOT MRu 19	O N/A	7.1.13	[ ]Yes [ ]No [ ]N/A
MRu19-IE7	Calling party subaddress	MRu 19 NOT MRu 19	O N/A	7.1.13	[ ]Yes [ ]No [ ]N/A
MRu19-IE4	Called party number	MRu 19 NOT MRu 19	O N/A	7.1.13, 9.2.1, 9.2.2, 9.2.3, annex B	[ ]Yes [ ]No [ ]N/A
MRu19-IE5	Called party subaddress	MRu 19 NOT MRu 19	O N/A	7.1.13, annex B	[ ]Yes [ ]No [ ]N/A
MRu19-IE27	Transit network selection		N/A	7.1.13	[ ]Yes [ ]No [ ]N/A
MRu19-IE14	High layer compatibility	MRu 19 AND (MCu 22.2 OR SCu 8) NOT MRu 19 OR (NOT MCu 22.2 AND NOT SCu 8)	M N/A	7.1.13, 9.2.1, , annex B	[ ]Yes [ ]No [ ]N/A
NOTE 1: The support of this parameter implies the ability to display the information supplied. If not supported, its handling is beyond the scope of EN 301 142-1 [1]. NOTE 2: The support of this parameter implies the use of the information supplied in connection with one or more supplementary services.					
Comments:					

Table A.22: Information elements in SETUP ACKNOWLEDGE received by the user

Item	Information element	Conditions for status	Status	Reference	Support
MRu20-IE12	Display (T) (note)	MRu 20 NOT MRu 20	O N/A	7.1.14	[ ]Yes [ ]No [ ]N/A
NOTE: The support of this parameter implies the ability to display the information supplied. If not supported, its handling is beyond the scope of EN 301 142-1 [1].					
Comments:					

Table A.23: Information elements in STATUS received by the user

Item	Information element	Conditions for status	Status	Reference	Support
MRu21-IE8	Cause (T) (note 1)	MCu 7.2 NOT MCu 7.2	M O	7.1.15, 9.7	[ ]Yes [ ]No
MRu21-IE3	Call state		M	7.1.15, 9.7	[ ]Yes [ ]No
MRu21-IE12	Display (T) (note 2)		O	7.1.15	[ ]Yes [ ]No
NOTE 1: The receipt of this PDU parameter is only transparent when the IUT does not support the status enquiry procedure (subclause 5.8.10). NOTE 2: The support of this parameter implies the ability to display the information supplied. If not supported, its handling is beyond the scope of EN 301 142-1 [1].					
Comments:					

Table A.24: Information elements in STATUS ENQUIRY received by the user

Item	Information element	Conditions for status	Status	Reference	Support
MRu22-IE12	Display (T) (note)		O	7.1.16, 9.7	[ ]Yes [ ]No
NOTE: The support of this parameter implies the ability to display the information supplied. If not supported, its handling is beyond the scope of EN 301 142-1 [1].					
Comments:					

Table A.25: Information elements in USER INFORMATION received by the user

Item	Information element	Conditions for status	Status	Reference	Support
MRu22-IE17	More data	MCu 3 NOT MCu 3	O N/A	7.1.17, 9.3.1.1	[ ]Yes [ ]No [ ]N/A
MRu22-IE28	User-user	MRu 26	M	7.1.17, 9.3.1	[ ]Yes [ ]No
Comments:					

A.7.5.2 Information elements in messages transmitted by the user

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

Table A.26: Information elements in ALERTING transmitted by the user

Item	Information element		Status	Reference	Support
MTu1-IE12	Display	MTu 1 NOT MTu 1	X N/A	7.1.1	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.27: Information elements in CALL PROCEEDING transmitted by the user

Item	Information element	Conditions for status	Status	Reference	Support
MTu2-IE12	Display	MTu 2 NOT MTu 2	X N/A	7.1.2	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.28: Information elements in CONNECT transmitted by the user

Item	Information element	Conditions for status	Status	Reference	Support
MTu4-IE12	Display	MTu 4 NOT MTu 4	X N/A	7.1.3	[ ]Yes [ ]No [ ]N/A
MTu4-IE12	Date/time	MTu 4 NOT MTu 4	X N/A	7.1.3	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.29: Information elements in CONNECT ACKNOWLEDGE transmitted by the user

Item	Information element	Conditions for status	Status	Reference	Support
MTu5-IE12	Display	MTu 5 NOT MTu 5	X N/A	7.1.4	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.30: Information elements in FACILITY transmitted by the user

Item	Information element	Conditions for status	Status	Reference	Support
Mtu-IE13	Facility	MTu 7 NOT MTu 7	M N/A	7.1.5	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.31: Information elements in INFORMATION transmitted by the user

Item	Information element	Conditions for status	Status	Reference	Support
MTu8-IE24	Sending complete	MTu 8 AND MCu 1.2 NOT MTu 8 OR NOT MCu 1.2	O N/A	7.1.6, 9.1.1, 9.1.2	[ ]Yes [ ]No [ ]N/A
MTu8-IE8	Cause	MTu 8 NOT MTu 8	X N/A	7.1.6	[ ]Yes [ ]No [ ]N/A
MTu8-IE12	Display	MTu 8 NOT MTu 8	X N/A	7.1.6	[ ]Yes [ ]No [ ]N/A
MTu8-IE15	Keypad facility	MTu 8 NOT MTu 8	O N/A	7.1.6, 9, 9.1.2	[ ]Yes [ ]No [ ]N/A
MTu8-IE4	Called party number	MTu 8 AND MCu 1.2 NOT MTu 8 OR NOT MCu 1.2	M N/A	7.1.6, 9.1.1, 9.1.2	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.32: Information elements in NOTIFY transmitted by the user

Item	Information element	Conditions for status	Status	Reference	Support
MTu9-IE19	Notification indicator	MTu 9 NOT MTu 9	M N/A	7.1.7, 9.8	[ ]Yes [ ]No [ ]N/A
MTu9-IE12	Display	MTu 9 NOT MTu 9	X N/A	7.1.7	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.33: Information elements in RELEASE transmitted by the user

Item	Information element	Conditions for status	Status	Reference	Support
MTu11-IE8	Cause		M	7.1.8, 9.4, 9.7	[ ]Yes [ ]No
MTu11-IE12	Display		X	7.1.8	[ ]Yes [ ]No
Comments:					

Table A.34: Information elements in RELEASE COMPLETE transmitted by the user

Item	Information element	Conditions for status	Status	Reference	Support
MTu12-IE8	Cause		M	7.1.9, 9.4, 9.7	[ ]Yes [ ]No
MTu12-IE12	Display		X	7.1.9	[ ]Yes [ ]No
Comments:					

Table A.35: Information elements in RESTART transmitted by the user

Item	Information element	Conditions for status	Status	Reference	Support
MTu13-IE12	Display	MTu 13 NOT MTu 13	X N/A	7.1.10	[ ]Yes [ ]No [ ]N/A
MTu13-IE22	Restart indicator	MTu 13 NOT MTu 13	M N/A	7.1.10, 9.5.1	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.36: Information elements in RESTART ACKNOWLEDGE transmitted by the user

Item	Information element	Conditions for status	Status	Reference	Support
MTu14-IE12	Display	MTu 14 NOT MTu 14	X N/A	7.1.11	[ ]Yes [ ]No [ ]N/A
MTu14-IE22	Restart indicator	MTu 14 NOT MTu 14	M N/A	7.1.11, 9.5.2	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.37: Information elements in SEGMENT transmitted by the user

Item	Information element	Conditions for status	Status	Reference	Support
MTu18-IE23	Segmented message	MTu 18 NOT MTu 18	M N/A	7.1.12, annex E	[ ]Yes [ ]No [ ]N/A
MTu18-IEx	"Segment"	MTu 18 NOT MTu 18	M N/A	7.1.12, annex E	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.38: Information elements in SETUP transmitted by the user

Item	Information element	Conditions for status	Status	Reference	Support
MTu19-IE24	Sending complete	MTu 19 NOT MTu 19	O N/A	7.1.13, 9.1.1, 9.1.2	[ ]Yes [ ]No [ ]N/A
MTu19-IE1	Bearer capability	MTu 19 NOT MTu 19	M N/A	7.1.13, 9.1.1, annex B	[ ]Yes [ ]No [ ]N/A
MTu19-IE9	Channel identification	MTu 19 NOT MTu 19	O N/A	7.1.13. 9.1.1	[ ]Yes [ ]No [ ]N/A
MTu19-IE18	Network specific facilities	MTu 19 AND MCu 9 NOT MTu 19 OR NOT MCu 9	M N/A	7.1.13, annex D	[ ]Yes [ ]No [ ]N/A
MTu19-IE12	Display	MTu 19 NOT MTu 19	X N/A	7.1.13	[ ]Yes [ ]No [ ]N/A
MTu19-IE15	Keypad facility	MTu 19 NOT MTu 19	O N/A	7.1.13, 9.1.2	[ ]Yes [ ]No [ ]N/A
MTu19-IE6	Calling party number		O N/A	7.1.13	[ ]Yes [ ]No [ ]N/A
MTu19-IE7	Calling party subaddress		O N/A	7.1.13	[ ]Yes [ ]No [ ]N/A
MTu19-IE4	Called party number	MTu 19 AND MCu 1.1 MTu 19 AND NOT MCu 1.1 NOT MTu 19	M O N/A	7.1.13, 9.1.1, 9.1.2	[ ]Yes [ ]No [ ]N/A
MTu19-IE5	Called party subaddress	MTu 19 NOT MTu 19	O N/A	7.1.13, 9.1.1	[ ]Yes [ ]No [ ]N/A
MTu19-IE27	Transit network selection	MTu 19 AND MCu 1.4 NOT MTu 19 OR NOT MCu 1.4	M N/A	7.1.13, annex C	[ ]Yes [ ]No [ ]N/A
MTu19-IE14	High layer compatibility	MTu 19 AND MCu 22.1 MTu 19 AND NOT MCu 22.1 NOT MTu 19	M O N/A	7.1.13, annex B	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.39: Information elements in SETUP ACKNOWLEDGE transmitted by the user

Item	Information element	Conditions for status	Status	Reference	Support
MTu20-IE12	Display	MTu 20 NOT MTu 20	X N/A	7.1.14	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.40: Information elements in STATUS transmitted by the user

Item	Information element	Conditions for status	Status	Reference	Support
MTu21-IE8	Cause		M	7.1.15, 9.7	[ ]Yes [ ]No
MTu21-IE3	Call state		M	7.1.15, 9.7	[ ]Yes [ ]No
MTu21-IE12	Display		X	7.1.15	[ ]Yes [ ]No
Comments:					

Table A.41: Information elements in STATUS ENQUIRY transmitted by the user

Item	Information element	Conditions for status	Status	Reference	Support
MTu22-IE12	Display	MTu 22 NOT MTu 22	X N/A	7.1.16	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.42: Information elements in USER INFORMATION transmitted by the user

Item	Information element	Conditions for status	Status	Reference	Support
MTu22-IE17	More data	MCu 3 NOT MCu 3	O N/A	7.1.17, 9.3.1.1	[ ]Yes [ ]No [ ]N/A
MTu22-IE28	User-user	MTu 26	M	7.1.17, 9.3.1	[ ]Yes [ ]No
Comments:					

A.7.5.3 Facility information element components received by the user

Indicating support for an item in table A.43 in this subclause states that the implementation has the ability to receive the Facility information element components listed.

Table A.43: Facility information element components received by the user

Item	Facility information element components	Conditions for status	Status	Reference	Support
CRu1	FlowControl invoke	MCu 3 NOT MCu 3	M N/A	7.3, 9.3.2	[ ]Yes [ ]No [ ]N/A
CRu2	CongestionControl invoke	MCu 3 NOT MCu 3	M N/A	7.3, 9.3.3	[ ]Yes [ ]No [ ]N/A
Comments:					

A.7.5.4 Facility information element components transmitted by the user

Indicating support for an item in table A.44 in this subclause states that the implementation has the ability to transmit the Facility information element components listed.

Table A.44: Facility information element components transmitted by the user

Item	Facility information element components	Conditions for status	Status	Reference	Support
CTu1	FlowControl invoke	MCu 3 NOT MCu 3	M N/A	7.3, 9.3.2	[ ]Yes [ ]No [ ]N/A
CTu2	CongestionControl invoke	MCu 3 NOT MCu 3	O N/A	7.3, 9.3.3	[ ]Yes [ ]No [ ]N/A
Comments:					

A.7.6 Timers

Indicating support for an item in table A.45 states that the implementation has a timer that operates in accordance with the description in clause 13 and with the relevant behaviour specified in clause 9 of EN 301 142-1 [1].

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

Table A.45: Timers in the user role

Item	Timer Does the implementation support...	Conditions for status	Status	Reference	Support	Values Allowed	Value Supported
TMu 1	T301		I	13	[ ]Yes [ ]No	N/A	N/A
TMu 2	T302	MCu 2.2 NOT MCu 2.2	M N/A	13	[ ]Yes [ ]No [ ]N/A	15 s	
TMu 3	T303	MCu 1 NOT MCu 1	O N/A	13	[ ]Yes [ ]No [ ]N/A	4 s	
TMu 4	T304	MCu 1.2 NOT MCu 1.2	O N/A	13	[ ]Yes [ ]No [ ]N/A	30 s	
TMu 8	T308		M	13	[ ]Yes [ ]No	4 s	
TMu 9	T309		O	13	[ ]Yes [ ]No	6 - 12 s (note)	
TMu 10	T310	MCu 1 NOT MCu 1	O N/A	13	[ ]Yes [ ]No [ ]N/A	30 - 100 s	
TMu 12	T313	MCu 2 NOT MCu 2	M N/A	13	[ ]Yes [ ]No [ ]N/A	4 s	
TMu 13	T314	MCu 13 NOT MCu 13	M N/A	13	[ ]Yes [ ]No [ ]N/A	4 s	
TMu 14	T316	MCu 5.2 NOT MCu 5.2	M N/A	13	[ ]Yes [ ]No [ ]N/A	120 s	
TMu 15	T317	MCu 5.1 NOT MCu 5.1	M N/A	13	[ ]Yes [ ]No [ ]N/A	< T316	
TMu 19	T322	MCu 7.2 NOT MCu 7.2	M N/A	13	[ ]Yes [ ]No [ ]N/A	4 s	
TMu 20	T1-USBS	MCu 3.2 NOT MCu 3.2	M N/A	13	[ ]Yes [ ]No [ ]N/A	>15 minutes	
TMu 21	T2-USBS	MCu 3.2 NOT MCu 3.2	M N/A	13	[ ]Yes [ ]No [ ]N/A	= T1-USBS	
NOTE: The value of T309 is calculated according to the formula: T309 = (N200+1)*T200+2 s.							
Comments:							

A.7.7 Compatibility information elements structure

The following tables concern the Bearer capability and the High layer compatibility information elements. These tables shall be completed in order to evaluate the chance of interoperability of two implementations.

NOTE: Although the High layer compatibility information element is applicable to USBS, no teleservice that makes use of the User signalling bearer capability is defined so far. Therefore, this subclause does not include a table concerning the encoding of the High layer compatibility information element.

Table A.46: Bearer Capability structure

Item	Information element field	Status	Values	Support
ISu 1.1	Octet 3 bits 6 and 7, coding standard	M		[ ]Yes [ ]No
	1. CCITT standardized coding 2. ISO/IEC standard 3. National standard 4. Network specific standard	M N/A N/A N/A	0 1 2 3	[ ]Yes [ ]No
ISu 1.2	Octet 3 bits 1 to 5, information transfer capability	M		[ ]Yes [ ]No
	1. Speech 2. Unrestricted digital 3. Restricted digital 4. 3,1 kHz audio 5. Unrestricted digital information with tones/announcements 6. Video	N/A M N/A N/A N/A N/A	0 8 9 16 17 24	[[ ]Yes [ ]No [
ISu 1.3	Octet 4 bits 6 and 7, transfer mode	M		[ ]Yes [ ]No
	1. Circuit 2. Packet	N/A M	0 2	 [ ]Yes [ ]No
ISu 1.4	Octet 4 bits 1 to 5, information transfer rate	M		[ ]Yes [ ]No
	0. Packet 1. 64 kbit/s 2. 2 x 64 kbit/s 3. 384 kbit/s 4. 1536 kbit/s 5. 1920 kbit/s 6. Multirate	M N/A N/A N/A N/A N/A N/A	0 16 17 19 21 23 24	[ ]Yes [ ]No
ISu 1.9	Octet 4.1 Rate multiplier	N/A		
ISu 1.10	Octet 5	N/A		
ISu 1.30	Octet 6 bits 1 to 5, user information layer 2 protocol	M		[ ]Yes [ ]No
	1. Q.921 2. X.25 link level	M N/A	2 6	[ ]Yes [ ]No
ISu 1.31	Octet 7 bits 1 to 5, user information layer 3 protocol	M		[ ]Yes [ ]No
	1. Q.931 2. X.25 packet layer	M N/A	2 6	[ ]Yes [ ]No
Comments:				

A.7.8 Numbering information elements structure

The following tables concern the Calling party number and Called party number information elements. These tables shall be completed in order to evaluate the chance of interoperability of two implementations.

Table A.47: Calling party number information element in SETUP received by the user

Item	Does the implementation support Calling party number information element parameters...	Conditions for status	Status	Values	Support
CGPru 1.1	TON (octet 3)	MRu 19-IE6 NOT MRu 19-IE6	M N/A		[ ]Yes [ ]No [ ]N/A
	1. Unknown		O	0	[ ]Yes [ ]No
	2. International number		O	1	[ ]Yes [ ]No
	3. National number		O	2	[ ]Yes [ ]No
	4. Network specific number		O	3	[ ]Yes [ ]No
	5. Subscriber number		O	4	[ ]Yes [ ]No
	6. Abbreviated number		X	6	[ ]Yes [ ]No
CGPru 1.2	NPI (octet 3)	MRu 19-IE6 NOT MRu 19-IE6	M N/A		[ ]Yes [ ]No [ ]N/A
	1. Unknown		O	0	[ ]Yes [ ]No
	2. ISDN/telephony numbering plan		O	1	[ ]Yes [ ]No
	3. Data numbering plan		O	3	[ ]Yes [ ]No
	4. Telex numbering plan		O	4	[ ]Yes [ ]No
	5. National standard numbering plan		O	8	[ ]Yes [ ]No
	6. Private numbering plan		O	9	[ ]Yes [ ]No
CGPru 1.3	Presentation indicator (octet 3a)	MRu 19-IE6 NOT MRu 19-IE6	O N/A		[ ]Yes [ ]No [ ]N/A
	1. Presentation allowed		O	0	[ ]Yes [ ]No
	2. Presentation restricted		O	1	[ ]Yes [ ]No
	3. Number not available due to interworking		O	2	[ ]Yes [ ]No
CGPru 1.4	Screening indicator (octet 3a)	MRu 19-IE6 NOT MRu 19-IE6	O N/A		[ ]Yes [ ]No [ ]N/A
	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		X	2	[ ]Yes [ ]No
	4. Network provided		O	3	[ ]Yes [ ]No
CGPru 1.5	Number digits (octet 4 onwards)	MRu 19-IE6 NOT MRu 19-IE6	O N/A	Up to 20 digits; max. value supported:	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.48: Calling party number information element in SETUP transmitted by the user

Item	Does the implementation support Calling party number information element parameters...	Conditions for status	Status	Values	Support
CGPtu 1.1	TON (octet 3)	MTu 19-IE6 NOT MTu 19-IE6	M N/A		[ ]Yes [ ]No [ ]N/A
	1. Unknown		O	0	[ ]Yes [ ]No
	2. International number		O	1	[ ]Yes [ ]No
	3. National number		O	2	[ ]Yes [ ]No
	4. Network specific number		O	3	[ ]Yes [ ]No
	5. Subscriber number		O	4	[ ]Yes [ ]No
	6. Abbreviated number		X	6	[ ]Yes [ ]No
CGPtu 1.2	NPI (octet 3)	MTu 19-IE6 NOT MTu 19-IE6	M N/A		[ ]Yes [ ]No [ ]N/A
	1. Unknown		O	0	[ ]Yes [ ]No
	2. ISDN/telephony numbering plan		O	1	[ ]Yes [ ]No
	3. Data numbering plan		O	3	[ ]Yes [ ]No
	4. Telex numbering plan		O	4	[ ]Yes [ ]No
	5. National standard numbering plan		O	8	[ ]Yes [ ]No
	6. Private numbering plan		O	9	[ ]Yes [ ]No
CGPtu 1.3	Presentation indicator (octet 3a)	MTu 19-IE6 NOT MTu 19-IE6	O N/A		[ ]Yes [ ]No [ ]N/A
	1. Presentation allowed		O	0	[ ]Yes [ ]No
	2. Presentation restricted		O	1	[ ]Yes [ ]No
	3. Number not available due to interworking		O	2	[ ]Yes [ ]No
CGPtu 1.4	Screening indicator (octet 3a)	MTu 19-IE6 NOT MTu 19-IE6	O N/A		[ ]Yes [ ]No [ ]N/A
	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		X	2	[ ]Yes [ ]No
	4. Network provided		O	3	[ ]Yes [ ]No
CGPtu 1.5	Number digits (octet 4 onwards)	MTu 19-IE6 NOT MTu 19-IE6	O N/A	Up to 20 digits; max. value supported:	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.49: Called party number information element in SETUP received by the user

Item	Does the implementation support Called party number information element parameters...	Conditions for status	Status	Values	Support
CDP1ru 1.1	TON (octet 3)	MRu 19-IE4 NOT MRu 19-IE4	M N/A		[ ]Yes [ ]No [ ]N/A
	1. Unknown		O	0	[ ]Yes [ ]No
	2. International number		O	1	[ ]Yes [ ]No
	3. National number		O	2	[ ]Yes [ ]No
	4. Network specific number		O	3	[ ]Yes [ ]No
	5. Subscriber number		O	4	[ ]Yes [ ]No
	6. Abbreviated number		O	6	[ ]Yes [ ]No
CDP1ru 1.2	NPI (octet 3)	MRu 19-IE4 NOT MRu 19-IE4	M N/A		[ ]Yes [ ]No [ ]N/A
	1. Unknown		O	0	[ ]Yes [ ]No
	2. ISDN/telephony numbering plan		O	1	[ ]Yes [ ]No
	3. Data numbering plan		O	3	[ ]Yes [ ]No
	4. Telex numbering plan		O	4	[ ]Yes [ ]No
	5. National standard numbering plan		O	8	[ ]Yes [ ]No
	6. Private numbering plan		O	9	[ ]Yes [ ]No
CDP1ru 1.3	Number digits (octet 4 onwards)	MRu 19-IE4 NOT MRu 19-IE4	O N/A	Up to 20 digits; max. value supported:	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.50: Called party number information element in SETUP transmitted by the user

Item	Does the implementation support Called party number information element parameters...	Conditions for status	Status	Values	Support
CDP1tu 1.1	TON (octet 3)	MTu 19-IE4 NOT MTu 19-IE4	M N/A		[ ]Yes [ ]No [ ]N/A
	1. Unknown		O	0	[ ]Yes [ ]No
	2. International number		O	1	[ ]Yes [ ]No
	3. National number		O	2	[ ]Yes [ ]No
	4. Network specific number		O	3	[ ]Yes [ ]No
	5. Subscriber number		O	4	[ ]Yes [ ]No
	6. Abbreviated number		O	6	[ ]Yes [ ]No
CDP1tu 1.2	NPI (octet 3)	MTu 19-IE4 NOT MTu 19-IE4	M N/A		[ ]Yes [ ]No [ ]N/A
	1. Unknown		O	0	[ ]Yes [ ]No
	2. ISDN/telephony numbering plan		O	1	[ ]Yes [ ]No
	3. Data numbering plan		O	3	[ ]Yes [ ]No
	4. Telex numbering plan		O	4	[ ]Yes [ ]No
	5. National standard numbering plan		O	8	[ ]Yes [ ]No
	6. Private numbering plan		O	9	[ ]Yes [ ]No
CDP1tu 1.3	Number digits (octet 4 onwards)	MTu 19-IE4 NOT MTu 19-IE4	O N/A	Up to 20 digits; max. value supported:	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.51: Called party number information element in INFORMATION received by the user

Item	Does the implementation support Called party number information element parameters...	Conditions for status	Status	Values	Support
CDP2ru 1.1	TON (octet 3)	MRu 8-IE4 NOT MRu 8-IE4	M N/A		[ ]Yes [ ]No [ ]N/A
	1. Unknown		O	0	[ ]Yes [ ]No
	2. International number		O	1	[ ]Yes [ ]No
	3. National number		O	2	[ ]Yes [ ]No
	4. Network specific number		O	3	[ ]Yes [ ]No
	5. Subscriber number		O	4	[ ]Yes [ ]No
	6. Abbreviated number		O	6	[ ]Yes [ ]No
CDP2ru 1.2	NPI (octet 3)	MRu 8-IE4 NOT MRu 8-IE4	M N/A		[ ]Yes [ ]No [ ]N/A
	1. Unknown		O	0	[ ]Yes [ ]No
	2. ISDN/telephony numbering plan		O	1	[ ]Yes [ ]No
	3. Data numbering plan		O	3	[ ]Yes [ ]No
	4. Telex numbering plan		O	4	[ ]Yes [ ]No
	5. National standard numbering plan		O	8	[ ]Yes [ ]No
	6. Private numbering plan		O	9	[ ]Yes [ ]No
CDP2ru 1.3	Number digits (octet 4 onwards)	MRu 8-IE4 NOT MRu 8-IE4	O N/A	Up to 20 digits; max. value supported:	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.52: Called party number information element in INFORMATION transmitted by the user

Item	Does the implementation support Called party number information element parameters...	Conditions for status	Status	Values	Support
CDP2tu 1.1	TON (octet 3)	MTu 8-IE4 NOT MTu 8-IE4	M N/A		[ ]Yes [ ]No [ ]N/A
	1. Unknown		O	0	[ ]Yes [ ]No
	2. International number		O	1	[ ]Yes [ ]No
	3. National number		O	2	[ ]Yes [ ]No
	4. Network specific number		O	3	[ ]Yes [ ]No
	5. Subscriber number		O	4	[ ]Yes [ ]No
	6. Abbreviated number		O	6	[ ]Yes [ ]No
CDP2tu 1.2	NPI (octet 3)	MTu 8-IE4 NOT MTu 8-IE4	M N/A		[ ]Yes [ ]No [ ]N/A
	1. Unknown		O	0	[ ]Yes [ ]No
	2. ISDN/telephony numbering plan		O	1	[ ]Yes [ ]No
	3. Data numbering plan		O	3	[ ]Yes [ ]No
	4. Telex numbering plan		O	4	[ ]Yes [ ]No
	5. National standard numbering plan		O	8	[ ]Yes [ ]No
	6. Private numbering plan		O	9	[ ]Yes [ ]No
CDP2tu 1.3	Number digits (octet 4 onwards)	MTu 8-IE4 NOT MTu 8-IE4	O N/A	Up to 20 digits; max. value supported:	[ ]Yes [ ]No [ ]N/A
Comments:					

A.8 Network

The tables provided in this subclause need only to be completed for network implementations.

Prerequisite: R 2.2

A.8.1 Type of implementation

Not applicable.

A.8.2 Major capabilities

Each question in table A.53 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 subclauses of EN 301 142-1 [1]. Answering "No" to a particular question states that the implementation does not support that function of the protocol.

Table A.53: Major capabilities of the network role

Item	Major capability Does the implementation support...	Conditions for status	Status	Reference	Support
	Provision and withdrawal				
MCn 0.1	the provision of USBS on a per ISDN number basis		O.14	6.1, 9.1.3	[ ]Yes [ ]No
MCn 0.2	the provision of USBS to the whole access		O.14	6.1, 9.1.3	[ ]Yes [ ]No
MCn 0.3	the provision of USBS on a per ISDN number basis and to the whole access as decided by subscription option		O.14	6.1	[ ]Yes [ ]No
MCn 0.4	maximum number of USBS calls (incoming and outgoing) without limitation		O.15	6.1, 9.1.1, 9.2.1	[ ]Yes [ ]No
MCn 0.5	maximum number of USBS calls (incoming and outgoing) with limitation		O.15	6.1, 9.1.1, 9.2.1	Value [ ]
	Call establishment at the originating interface				
MCn 1	call establishment at the originating interface (outgoing calls from the user's point of view)		M	9.1	[ ]Yes [ ]No
MCn 1.1	the procedures for en-bloc sending (sending from the user's point of view)		M	9.1.1	[ ]Yes [ ]No
MCn 1.2	the procedures for overlap sending (sending from the user's point of view)		M	9.1.2	[ ]Yes [ ]No
MCn 1.4	transit network selection		O	9.1.1, annex C	[ ]Yes [ ]No
MCn 1.5	preregistered on demand mode		O	6.1, 9.1.1, 9.1.2, 9.1.3	[ ]Yes [ ]No
MCn 1.6	size of list of preregistered numbers	MCn 1.5 NOT MCn 1.5	M N/A	6.1, 9.1.1, 9.1.2, 9.1.3	Value [ ] [ ]N/A
	Call establishment at the destination interface				
MCn 2	call establishment at the destination interface (incoming calls from the user's point of view)		M	9.2	[ ]Yes [ ]No
MCn 2.1	called party addressing information sent only in the SETUP message (en-bloc receiving from the user's point of view)		O.16	9.2.1, 9.2.4	[ ]Yes [ ]No
MCn 2.2	called party addressing information split across, and sent in, SETUP and INFORMATION messages (overlap receiving from the user's point of view)		O.16	9.2.1, 9.2.3, 9.2.4	[ ]Yes [ ]No
MCn 2.4	delivery of the SETUP message on a point-to-point data link	R 7.1 NOT R 7.1	M X	9.2.1	[ ]Yes [ ]No [ ] N/A
MCn 2.5	delivery of the SETUP message on a broadcast data link	R 7.2 NOT R 7.2	M X	9.2.1	[ ]Yes [ ]No [ ] N/A
	Information transfer				
MCn 3	transfer of SDUs		M	9.3.1	[ ]Yes [ ]No
MCn 3.1	flow control	R 3.1 NOT R 3.1	M N/A	9.3.2	[ ]Yes [ ]No [ ]N/A
MCn 3.2	congestion control		M	9.3.3	[ ]Yes [ ]No
	Others				
MCn 4	accept call clearing initiated by the user		M	9.4.2	[ ]Yes [ ]No

(continued)

Table A.53 (concluded): Major capabilities of the network role

Item	Major capability Does the implementation support...	Conditions for status	Status	Reference	Support
MCn 5.1	restart procedure (interpretation of a received RESTART message)	R 7.1 NOT R 7.1	M O	9.5.2	[ ]Yes [ ]No
MCn 7.1	response to status enquiry request		M	9.7	[ ]Yes [ ]No
MCn 7.2	initiation of status enquiry procedure		M	9.7	[ ]Yes [ ]No
MCn 9	processing of network specific facility request		O	annex D	[ ]Yes [ ]No
MCn 13	message segmentation procedures		O	annex E	[ ]Yes [ ]No
MCn 18	resolution of call collisions		M	9.6	[ ]Yes [ ]No
MCn 19	handling of error conditions		M	9.7	[ ]Yes [ ]No
O.14 Support of at least one of these options is required. O.15 Support of one, and only one, of these options is required O.16 Support of at least one of these options is required.					
Comments:					

A.8.3 Subsidiary capabilities

Indicating support for an item in table A.54 states that the implementation supports special cases or options within a major capability.

Table A.54: Subsidiary capabilities of the network role

Item	Subsidiary capability Does the implementation support...	Conditions for status	Status	Reference	Support
	General				
SCn 3.1	use of a 1 octet call reference value for Basic access	R 6.1 NOT R 6.1	M N/A	4.3	[ ]Yes [ ]No [ ]N/A
SCn 3.2	use of a 2 octet call reference value for Primary rate access	R 6.2 NOT R 6.2	M N/A	4.3	[ ]Yes [ ]No [ ]N/A
SCn 3.3	use of a 1 octet call reference value for Primary rate access	R 6.2 NOT R 6.2	X N/A	4.3	[ ]Yes [ ]No [ ]N/A
	Call establishment at the originating interface				
SCn 101	recognition of the Sending complete information element		M	5.1.1, 5.1.3	[ ]Yes [ ]No
SCn 102	recognition of "#" as a sending complete indication		O	5.1.1, 5.1.3	[ ]Yes [ ]No
	Call establishment at the destination interface				
SCn 110	permanent data link connection (establishment as soon as the TEI is assigned, and retained indefinitely)		O	5.2	[ ]Yes [ ]No
SCn 111	transmission of a sending complete indication		O	5.2.1, 5.2.4	[ ]Yes [ ]No
SCn 112.1	use of the Sending complete information element as the sending complete indication	SCn 111 NOT SCn 111	M N/A	5.2.1, 5.2.4	[ ]Yes [ ]No [ ]N/A
SCn 112.2	use of "#" as the sending complete indication	SCn 111 NOT SCn 111	X N/A	5.2.1	[ ]Yes [ ]No [ ]N/A
SCn 4.1	acceptance of only one SETUP ACKNOWLEDGE message from the called user (point-to-point data link case)	MCn 2.4 AND MCn 2.2 NOT MCn 2.4 OR NOT MCn 2.2	M N/A	5.2.4	[ ]Yes [ ]No [ ]N/A
SCn 4.2	acceptance of up to 8 SETUP ACKNOWLEDGE messages from the called user (broadcast data link case)	MCn 2.5 AND MCn 2.2 NOT MCn 2.5 OR NOT MCn 2.2	O.17 N/A	5.2.4	[ ]Yes [ ]No [ ]N/A
SCn 5	clearing of subsequent responding users after the first SETUP ACKNOWLEDGE message (broadcast data link case)	MCn 2.5 AND MCn 2.2 NOT MCn 2.5 OR NOT MCn 2.2	O.17 N/A	5.2.4	[ ]Yes [ ]No [ ]N/A

(continued)

Table A.54 (continued): Subsidiary capabilities of the network role

Item	Subsidiary capability Does the implementation support...	Conditions for status	Status	Reference	Support
SCn 6	clearing of non-selected users (on a broadcast data link)	MCn 2.5 NOT MCn 2.5	M N/A	5.2.9	[ ]Yes [ ]No [ ]N/A
	Restart				
SCn 125.2	initiation of restart procedure on "single interface" (or "all interfaces")	MCn 5.2 NOT MCn 5.2	M N/A	5.5.1	[ ]Yes [ ]No [ ]N/A
	Handling of error conditions				
SCn 130.1	discarding an "inappropriate" message received in a DL-UNIT DATA-INDICATION primitive (note)		O.18	5.8	[ ]Yes [ ]No
SCn 130.2	processing of an "inappropriate" message received in a DL-UNIT DATA-INDICATION primitive as if it had been received in a DL-DATA-INDICATION primitive (note)		O.18	5.8	[ ]Yes [ ]No
SCn 131.1	call clearing with a RELEASE message, on receiving any message other than SETUP, RELEASE, RELEASE COMPLETE, STATUS, STATUS ENQUIRY, or RESUME with an unrecognizable Call reference value.		O.19	5.8.3.2.a)	[ ]Yes [ ]No
SCn 131.2	call clearing with a RELEASE COMPLETE message, on receiving any message other than SETUP, RELEASE, RELEASE COMPLETE, STATUS, STATUS ENQUIRY, or RESUME with an unrecognizable Call reference value.		O.19	5.8.3.2.a)	[ ]Yes [ ]No
SCn 19	on occurrence of a message type or message sequence error, transmission of a STATUS message		O.20	5.8.4	[ ]Yes [ ]No
SCn 20	on occurrence of a message type or message sequence error, initiation of the status enquiry procedure		O.20	5.8.4, 5.8.10	[ ]Yes [ ]No
SCn 23	processing of information elements regardless of their order in the message		O.21	5.8.5.1	[ ]Yes [ ]No
SCn 24	ignoring out of sequence information elements		O.21	5.8.5.1	[ ]Yes [ ]No
SCn 32	on occurrence of unrecognized information element error with information element not encoded to indicate "comprehension required", transmission of a STATUS message		O	5.8.7.1	[ ]Yes [ ]No
SCn 132	Cause no. 99 "Information element non-existent or not implemented" with diagnostic(s)		O	note in 5.8.7.1	[ ]Yes [ ]No
SCn 37	on occurrence of non-mandatory information element content error, transmission of a STATUS message		O	5.8.7.2	[ ]Yes [ ]No

(continued)

Table A.54 (concluded): Subsidiary capabilities of the network role

Item	Subsidiary capability Does the implementation support...	Conditions for status	Status	Reference	Support
SCn 38	truncation and processing of non-mandatory access information elements that are too long		O	5.8.7.2	[ ]Yes [ ]No
	Data link failure				
SCn 140	use of Cause no. 41 "temporary failure"		O	5.8.9 a)	[ ]Yes [ ]No
SCn 141.1	re-establishment of the data link connection if DL-RELEASE-INDICATION received after sending SETUP	MCn 2.4 NOT MCn 2.4	O.22 N/A	5.2.1, 5.8.9 a)	[ ]Yes [ ]No [ ]N/A
SCn 141.2	clearing of any calls that are not in the Active state if DL-RELEASE-INDICATION received after sending SETUP	MCn 2.4 MCn 2.5	O.22 M	5.2.1, 5.8.9 a)	[ ]Yes [ ]No
SCn 45.1	transmission of a STATUS message		O.23	5.8.9 b)	[ ]Yes [ ]No
SCn 45.2	initiation of the status enquiry procedure		O.23	5.8.9 b)	[ ]Yes [ ]No
	Status enquiry procedure				
SCn 47	retransmission of STATUS ENQUIRY message one or more times, up to an implementation dependent limit		O	5.8.10	[ ]Yes [ ]No
	Receiving a STATUS message				
SCn 160.1	clearing the call on a call state mismatch		O.24	5.8.11	[ ]Yes [ ]No
SCn 160.2	attempt to recover from a call state mismatch by implementation dependent means		O.24	5.8.11	[ ]Yes [ ]No
O.17	Support of one, and only one, of these options is required.				
O.18	Support of one, and only one, of these options is required.				
O.19	Support of at least one of these options is required.				
O.20	Support of at least one of these options is required.				
O.21	Support of at least one of these options is required.				
O.22	Support of at least one of these options is required.				
O.23	Support of at least one of these options is required.				
O.24	Support of at least one of these options is required.				
NOTE:	"Inappropriate" messages are those that are neither a SETUP message nor a message specified to use the data link unacknowledged information transfer service in support of another implemented application.				
Comments:					

A.8.4 Protocol data units

The tables in this subclause ask questions related to the supported PDUs in the network role. In the DSS1 protocol, PDUs are known by the term "messages".

A.8.4.1 Messages received by the network

Indicating support for an item in table A.55 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 301 142-1 [1].

Table A.55: Messages received by the network

Item	Message Does the implementation support the receipt of...	Conditions for status	Status	Reference	Support
MRn 1	ALERTING		M	7.1.1, 9.2.4	[ ]Yes [ ]No
MRn 2	CALL PROCEEDING		M	7.1.2, 9.2.4	[ ]Yes [ ]No
MRn 4	CONNECT		M	7.1.3, 9.2.5	[ ]Yes [ ]No
MRn 5	CONNECT ACKNOWLEDGE		M	7.1.4, 9.1.6	[ ]Yes [ ]No
MRu 7	FACILITY		M	7.1.5, 9.3.2, 9.3.3	
MRn 8	INFORMATION		M	7.1.6, 9.1.2	[ ]Yes [ ]No
MRn 9	NOTIFY		M	7.1.7, 9.8	[ ]Yes [ ]No
MRn 11	RELEASE		M	7.1.8, 9.4	[ ]Yes [ ]No
MRn 12	RELEASE COMPLETE		M	7.1.9, 9.4	[ ]Yes [ ]No
MRn 13	RESTART	MCn 5.1 NOT MCn 5.1	M N/A	7.1.10, 9.5.1	[ ]Yes [ ]No [ ]N/A
MRn 14	RESTART ACKNOWLEDGE	MCn 5.2 NOT MCn 5.2	M N/A	7.1.11, 9.5.2	[ ]Yes [ ]No [ ]N/A
MRn 18	SEGMENT	MCn 13 NOT MCn 13	M N/A	7.1.12, annex E	[ ]Yes [ ]No [ ]N/A
MRn 19	SETUP		M	7.1.13, 9.1.1	[ ]Yes [ ]No
MRn 20	SETUP ACKNOWLEDGE		M	7.1.14, 9.2.3	[ ]Yes [ ]No
MRn 21	STATUS		M	7.1.15, 9.7	[ ]Yes [ ]No
MRn 22	STATUS ENQUIRY		M	7.1.16, 9.7	[ ]Yes [ ]No
MRn 26	USER INFORMATION		M	7.1.17, 9.3	[ ]Yes [ ]No
Comments:					

A.8.4.2 Messages transmitted by the network

Indicating support for an item in table A.56 states that the implementation has the ability to transmit the message listed in that item.

Table A.56: Messages transmitted by the network

Item	Message Does the implementation support the transmission of...	Conditions for status	Status	Reference	Support
MTn 1	ALERTING		M	7.1.1, 9.1.5	[ ]Yes [ ]No
MTn 2	CALL PROCEEDING		M	7.1.2, 9.1.4	[ ]Yes [ ]No
MTn 4	CONNECT		M	7.1.3, 9.1.8	[ ]Yes [ ]No
MTn 5	CONNECT ACKNOWLEDGE		M	7.1.4, 9.2.6	[ ]Yes [ ]No
MRu 7	FACILITY		M	7.1.5, 9.3.2, 9.3.3	
MTn 8	INFORMATION	MCn 2.2 NOT MCn 2.2	M O	7.1.6, 9.2.3	[ ]Yes [ ]No
MTn 9	NOTIFY		M	7.1.7, 5.9	[ ]Yes [ ]No
MTn 11	RELEASE		M	7.1.8, 9.4	[ ]Yes [ ]No
MTn 12	RELEASE COMPLETE		M	7.1.9, 9.4	[ ]Yes [ ]No
MTn 13	RESTART	MCn 5.2 NOT MCn 5.2	M N/A	7.1.10, 9.5.1	[ ]Yes [ ]No [ ]N/A
MTn 14	RESTART ACKNOWLEDGE	MCn 5.1 NOT MCn 5.1	M N/A	7.1.11, 9.5.2	[ ]Yes [ ]No [ ]N/A
MTn 18	SEGMENT	MCn 13 NOT MCn 13	M N/A	7.1.12 annex E	[ ]Yes [ ]No [ ]N/A
MTn 19	SETUP		M	7.1.13, 9.2.1	[ ]Yes [ ]No
MTn 20	SETUP ACKNOWLEDGE		M	7.1.14, 9.1.2	[ ]Yes [ ]No
MTn 21	STATUS		M	7.1.15, 9.7	[ ]Yes [ ]No
MTn 22	STATUS ENQUIRY		M	7.1.16, 9.7	[ ]Yes [ ]No
MTn 26	USER INFORMATION		M	7.1.17, 9.3	[ ]Yes [ ]No
Comments:					

A.8.5 PDU parameters

The tables in this subclause ask questions related to the support of PDU parameters in messages received and transmitted by the IUT in the network role. In the DSS1 protocol, PDU parameters are known by the term "information elements".

Subclause A.8.5.1 contains tables relating to messages received by the IUT in the network role. Subclause A.8.5.2 contains tables relating to messages transmitted by the IUT in the network role.

Tables A.57 and A.58 deal with four information elements that appear in all messages that are either received or transmitted (respectively) by the IUT in the network role.

Table A.57: Information elements in all messages received by the network

Item	Information element	Conditions for status	Status	Reference	Support
MRn-IE29	Protocol discriminator		M	3.1, 4.2	[ ]Yes [ ]No
MRn-IE30	Call reference		M	3.1, 4.3	[ ]Yes [ ]No
MRn-IE31	Message type		M	3.1, 4.4	[ ]Yes [ ]No
MRn-IE25	Shift		M	3.1, 4.5.2, 4.5.3, 4.5.4	[ ]Yes [ ]No
Comments:					

Table A.58: Information elements in all messages transmitted by the network

Item	Information element	Conditions for status	Status	Reference	Support
MTn-IE29	Protocol discriminator		M	3.1, 4.2	[ ]Yes [ ]No
MTn-IE30	Call reference		M	3.1, 4.3	[ ]Yes [ ]No
MTn-IE31	Message type		M	3.1, 4.4	[ ]Yes [ ]No
MTn-IE25	Shift		O	3.1, 4.5.2, 4.5.3, 4.5.4	[ ]Yes [ ]No
Comments:					

Table A.59 covers those information elements defined by ETS 300 403-1 [5], the use of which is outside the scope of EN 301 142-1 [1].

Table A.59: Information elements outside the scope of EN 301 142-1 [1]

Item	Information element	Conditions for status	Status	Reference	Support
Mn-IE2	Call identity		I	4.5.6	[ ]Yes [ ]No
Mn-IE16	Low layer compatibility		I	4.5.19	[ ]Yes [ ]No
Mn-IE20	Progress indicator		I	4.5.23	[ ]Yes [ ]No
Comments:					

A.8.5.1 Information elements in messages received by the network

Indicating support for an item in the tables in this subclause states that the implementation has the ability to process the information elements listed in the specified received messages. Such support does not necessarily mean that the indicated information element is included in every instance of the received message.

Table A.60: Information elements in ALERTING received by the network

Item	Information element	Conditions for status	Status	Reference	Support
MRn1-IE12	Display		N/A		N/A
Comments:					

Table A.61: Information elements in CALL PROCEEDING received by the network

Item	Information element	Conditions for status	Status	Reference	Support
MRn2-IE12	Display		N/A		N/A
Comments:					

Table A.62: Information elements in CONNECT received by the network

Item	Information element	Conditions for status	Status	Reference	Support
MRn4-IE12	Display		N/A		N/A
MRn4-IE11	Date/time		N/A		N/A
Comments:					

Table A.63: Information elements in CONNECT ACKNOWLEDGE received by the network

Item	Information element	Conditions for status	Status	Reference	Support
MRn5-IE12	Display		N/A		N/A
Comments:					

Table A.64: Information elements in FACILITY received by the network

Item	Information element	Conditions for status	Status	Reference	Support
MRn-IE13	Facility	MRn 7 NOT MRn 7	M N/A	7.1.5	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.65: Information elements in INFORMATION received by the network

Item	Information element	Conditions for status	Status	Reference	Support
MRn8-IE24	Sending complete		M	7.1.6, 9.1.1, 9.1.2	[ ]Yes [ ]No
MRn8-IE8	Cause		N/A		N/A
MRn8-IE12	Display		N/A		N/A
MRn8-IE15	Keypad facility (T) (note)		O	7.1.6, 9, 9.1.2	[ ]Yes [ ]No
MRn8-IE4	Called party number		M	7.1.6, 9.1.1, 9.1.2	[ ]Yes [ ]No
NOTE: The support of this parameter implies the use of the information supplied in connection with one or more supplementary services.					
Comments:					

Table A.66: Information elements in NOTIFY received by the network

Item	Information element	Conditions for status	Status	Reference	Support
MRn9-IE19	Notification indicator (T)		I	7.1.7, 9.8	[ ]Yes [ ]No
MRn9-IE12	Display		N/A		N/A
Comments:					

Table A.67: Information elements in RELEASE received by the network

Item	Information element	Conditions for status	Status	Reference	Support
MRn11-IE8	Cause (T)		I	7.1.8, 9.4, 9.7	[ ]Yes [ ]No
MRn11-IE12	Display		N/A		N/A
Comments:					

Table A.68: Information elements in RELEASE COMPLETE received by the network

Item	Information element	Conditions for status	Status	Reference	Support
MRn12-IE8	Cause (T)		I	7.1.9, 9.4, 9.7	[ ]Yes [ ]No
MRn12-IE12	Display		N/A		N/A
Comments:					

Table A.69: Information elements in RESTART received by the network

Item	Information element	Conditions for status	Status	Reference	Support
MRn13-IE12	Display		N/A		N/A
MRn13-IE22	Restart indicator	MRn 13 NOT MRn 13	M N/A	7.1.10, 9.5.1	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.70: Information elements in RESTART ACKNOWLEDGE received by the network

Item	Information element	Conditions for status	Status	Reference	Support
MRn14-IE12	Display		N/A		N/A
MRn14-IE22	Restart indicator	MRn 14 NOT MRn 14	M N/A	7.1.11, 9.5.2	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.71: Information elements in SEGMENT received by the network

Item	Information element	Conditions for status	Status	Reference	Support
MRn18-IE23	Segmented message	MRn 18 NOT MRn 18	M N/A	7.1.12, annex E	[ ]Yes [ ]No [ ]N/A
MRn18-IEx	"Segment"	MRn 18 NOT MRn 18	M N/A	7.1.12, annex E	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.72: Information elements in SETUP received by the network

Item	Information element	Conditions for status	Status	Reference	Support
MRn19-IE24	Sending complete		M	7.1.13, 9.1.1, 9.1.2	[ ]Yes [ ]No
MRn19-IE1	Bearer capability		M	7.1.13, 9.1.1,	[ ]Yes [ ]No
MRn19-IE9	Channel identification		M	7.1.13, 9.1.1	[ ]Yes [ ]No
MRn19-IE18	Network specific facilities	MCn 9 NOT MCn 9	M N/A	7.1.13, annex D	[ ]Yes [ ]No [ ]N/A
MRn19-IE12	Display		N/A		N/A
MRn19-IE15	Keypad facility (T) (note 1)		O	7.1.13, 9, 9.1.2	[ ]Yes [ ]No
MRn19-IE6	Calling party number		M	7.1.14	[ ]Yes [ ]No
MRn19-IE7	Calling party subaddress		M	7.1.13	[ ]Yes [ ]No
MRn19-IE4	Called party number		M	7.1.13, 9.1.1, 9.1.2	[ ]Yes [ ]No
MRn19-IE5	Called party subaddress (T) (note 2)		M	7.1.13, 9.1.1, 9.1.2	[ ]Yes [ ]No
MRn19-IE27	Transit network selection	MCn 1.4 NOT MCn 1.4	M N/A	7.1.13, annex C	[ ]Yes [ ]No [ ]N/A
MRn19-IE14	High layer compatibility (T) (note 3)		M	7.1.13	[ ]Yes [ ]No
NOTE 1: The support of this parameter implies the use of the information supplied in connection with one or more supplementary services. NOTE 2: The support of this parameter implies the ability to pass this parameter to a non-protocol entity (e.g. call control) so that it be transported transparently between a call originating entity and the addressed entity. NOTE 3: The support of this parameter implies the ability to either a) pass this parameter to a non-protocol entity (e.g. call control) so that it be transported transparently between a call originating entity and the addressed entity; or b) interpret this information to provide a particular service.					
Comments:					

Table A.73: Information elements in SETUP ACKNOWLEDGE received by the network

Item	Information element	Conditions for status	Status	Reference	Support
MRn20-IE12	Display		N/A		N/A
Comments:					

Table A.74: Information elements in STATUS received by the network

Item	Information element	Conditions for status	Status	Reference	Support
MRn21-IE8	Cause (T)		I	7.1.15, 9.7	[ ]Yes [ ]No
MRn21-IE3	Call state		M	7.1.15, 9.7	[ ]Yes [ ]No
MRn21-IE12	Display		N/A		N/A
Comments:					

Table A.75: Information elements in STATUS ENQUIRY received by the network

Item	Information element	Conditions for status	Status	Reference	Support
MRn22-IE12	Display		N/A		N/A
Comments:					

Table A.76: Information elements in USER INFORMATION received by the network

Item	Information element	Conditions for status	Status	Reference	Support
MRn22-IE17	More data	MCn 3 NOT MCn 3	O N/A	7.1.17, 9.3.1.1	[ ]Yes [ ]No [ ]N/A
MRn22-IE28	User-user	MRn 26	M	7.1.17, 9.3.1	[ ]Yes [ ]No
Comments:					

A.8.5.2 Information elements in messages transmitted by the network

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

Table A.77: Information elements in ALERTING transmitted by the network

Item	Information element	Conditions for status	Status	Reference	Support
MTn1-IE12	Display		O	7.1.1	[ ]Yes [ ]No
Comments:					

Table A.78: Information elements in CALL PROCEEDING transmitted by the network

Item	Information element	Conditions for status	Status	Reference	Support
MTn2-IE12	Display		O	7.1.2	[ ]Yes [ ]No
Comments:					

Table A.79: Information elements in CONNECT transmitted by the network

Item	Information element	Conditions for status	Status	Reference	Support
MTn4-IE12	Display		O	7.1.3	[ ]Yes [ ]No
MTn4-IE11	Date/time		O	7.1.3	[ ]Yes [ ]No
Comments:					

Table A.80: Information elements in CONNECT ACKNOWLEDGE transmitted by the network

Item	Information element	Conditions for status	Status	Reference	Support
MTn5-IE12	Display		O	7.1.4	[ ]Yes [ ]No
Comments:					

Table A.81: Information elements in FACILITY transmitted by the network

Item	Information element	Conditions for status	Status	Reference	Support
MTn-IE13	Facility	MTn 7 NOT MTn 7	M N/A	7.1.5	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.82: Information elements in INFORMATION transmitted by the network

Item	Information element	Conditions for status	Status	Reference	Support
MTn8-IE24	Sending complete	MTn 8 AND SCn 112.1 NOT MTn 8 OR NOT SCn 112.1	O N/A	7.1.6, 9.2.3	[ ]Yes [ ]No [ ]N/A
MTn8-IE8	Cause	MTn 8 NOT MTn 8	O N/A	7.1.6	[ ]Yes [ ]No [ ]N/A
MTn8-IE12	Display	MTn 8 NOT MTn 8	O N/A	7.1.6	[ ]Yes [ ]No [ ]N/A
MTn8-IE15	Keypad facility	MTn 8 NOT MTn 8	O N/A	7.1.6	[ ]Yes [ ]No [ ]N/A
MTn8-IE4	Called party number	MTn 8 NOT MTn 8	M N/A	7.1.6, 9.2.3	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.83: Information elements in NOTIFY transmitted by the network

Item	Information element	Conditions for status	Status	Reference	Support
MTn9-IE19	Notification indicator		M	7.1.7, 9.8	[ ]Yes [ ]No
MTn9-IE12	Display		O	7.1.7	[ ]Yes [ ]No
Comments:					

Table A.84: Information elements in RELEASE transmitted by the network

Item	Information element	Conditions for status	Status	Reference	Support
MTn11-IE8	Cause		M	7.1.8, 9.43	[ ]Yes [ ]No
MTn11-IE12	Display		O	7.1.8	[ ]Yes [ ]No
Comments:					

Table A.85: Information elements in RELEASE COMPLETE transmitted by the network

Item	Information element	Conditions for status	Status	Reference	Support
MTn12-IE8	Cause		M	7.1.9, 9.4	[ ]Yes [ ]No
MTn12-IE12	Display		O	7.1.9	[ ]Yes [ ]No
Comments:					

Table A.86: Information elements in RESTART transmitted by the network

Item	Information element	Conditions for status	Status	Reference	Support
MTn13-IE12	Display	MTn 13 NOT MTn 13	O N/A	7.1.10	[ ]Yes [ ]No [ ]N/A
MTn13-IE22	Restart indicator	MTn 13 NOT MTn 13	M N/A	7.1.10, 9.5.2	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.87: Information elements in RESTART ACKNOWLEDGE transmitted by the network

Item	Information element	Conditions for status	Status	Reference	Support
MTn14-IE12	Display	MTn 14 NOT MTn 14	O N/A	7.1.11	[ ]Yes [ ]No [ ]N/A
MTn14-IE22	Restart indicator	MTn 14 NOT MTn 14	M N/A	7.1.11, 9.5.1	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.88: Information elements in SEGMENT transmitted by the network

Item	Information element	Conditions for status	Status	Reference	Support
MTn18-IE23	Segmented message	MTn 18 NOT MTn 18	M N/A	7.1.12, annex E	[ ]Yes [ ]No [ ]N/A
MTn18-IEx	"Segment"	MTn 18 NOT MTn 18	M N/A	7.1.12, annex E	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.89: Information elements in SETUP transmitted by the network

Item	Information element	Conditions for status	Status	Reference	Support
MTn19-IE24	Sending complete	SCn 112.1 NOT SCn 112.1	M N/A	7.1.13, 9.2.1	[ ]Yes [ ]No [ ]N/A
MTn19-IE1	Bearer capability		M	7.1.13, 9.2.1	[ ]Yes [ ]No
MTn19-IE18	Network specific facilities		O	7.1.13, annex D	[ ]Yes [ ]No
MTn19-IE12	Display		O	7.1.13, 9.2.1	[ ]Yes [ ]No
MTn19-IE15	Keypad facility		O		[ ]Yes [ ]No
MTn19-IE6	Calling party number		O	7.1.13	[ ]Yes [ ]No
MTn19-IE7	Calling party subaddress		O	3.1.13	[ ]Yes [ ]No
MTn19-IE4	Called party number		M	7.1.13, 9.2.1, 9.2.2, 9.2.3	[ ]Yes [ ]No
MTn19-IE5	Called party subaddress		M	7.1.13	[ ]Yes [ ]No
MTn19-IE27	Transit network selection		X		[ ]Yes [ ]No
MTn19-IE14	High layer compatibility		M	7.1.13, 9.2.1,	[ ]Yes [ ]No
Comments:					

Table A.90: Information elements in SETUP ACKNOWLEDGE transmitted by the network

Item	Information element	Conditions for status	Status	Reference	Support
MTn20-IE12	Display		O	7.1.14	[ ]Yes [ ]No
Comments:					

Table A.91: Information elements in STATUS transmitted by the network

Item	Information element	Conditions for status	Status	Reference	Support
MTn21-IE8	Cause		M	7.1.15, 9.7	[ ]Yes [ ]No
MTn21-IE3	Call state		M	7.1.15, 9.7	[ ]Yes [ ]No
MTn21-IE12	Display		O	7.1.15	[ ]Yes [ ]No
Comments:					

Table A.92: Information elements in STATUS ENQUIRY transmitted by the network

Item	Information element	Conditions for status	Status	Reference	Support
MTn22-IE12	Display		O	7.1.16, 9.7	[ ]Yes [ ]No
Comments:					

Table A.93: Information elements in USER INFORMATION transmitted by the network

Item	Information element	Conditions for status	Status	Reference	Support
MTn22-IE17	More data	MCn 3 NOT MCn 3	O N/A	7.1.17, 9.3.1.1	[ ]Yes [ ]No [ ]N/A
MTn22-IE28	User-user	MTn 26	M	7.1.17, 9.3.1	[ ]Yes [ ]No
Comments:					

A.8.5.3 Facility information element components received by the network

Indicating support for an item in table A.94 in this subclause states that the implementation has the ability to receive the Facility information element components listed.

Table A.94: Facility information element components received by the network

Item	Facility information element components	Conditions for status	Status	Reference	Support
CRn1	CongestionControl invoke		M	7.3, 9.3.3	[ ]Yes [ ]No
Comments:					

A.8.5.4 Facility information element components transmitted by the network

Indicating support for an item in table A.95 in this subclause states that the implementation has the ability to transmit the Facility information element components listed.

Table A.95: Facility information element components transmitted by the network

Item	Facility information element components	Conditions for status	Status	Reference	Support
CTn1	FlowControl invoke	MCn 3.1 NOT MCn 3.1	M N/A	7.3, 9.3.2	[ ]Yes [ ]No [ ]N/A
CTn2	CongestionControl invoke		M	7.3, 9.3.3	[ ]Yes [ ]No
Comments:					

A.8.6 Timers

Indicating support for an item in table A.96 states that the implementation has a timer that operates in accordance with the description in clause 13 and with the relevant behaviour specified in clause 9 of EN 301 142-1 [1].

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

Table A.96: Timers in the network role

Item	Timer Does the implementation support...	Conditions for status	Status	Reference	Support	Values allowed	Value supported
TMn 1	T301	NOT TIn 6 TIn 6	M N/A	13	[ ]Yes [ ]No [ ]N/A	> 180 s	
TMn 2	T302		M	13	[ ]Yes [ ]No	10 - 15 s	
TMn 3	T303		M	13	[ ]Yes [ ]No	4 s	
TMn 4	T304	MCn 2.2 NOT MCn 2.2	M N/A	13	[ ]Yes [ ]No [ ]N/A	20 s	
TMn 8	T308		M	13	[ ]Yes [ ]No	4 s	
TMn 9	T309		M	13	[ ]Yes [ ]No	6 - 12 s (note)	
TMn 10	T310		M	13	[ ]Yes [ ]No	30 - 40 s	
TMn 11	T312		M	13	[ ]Yes [ ]No	T303 + 2 s	
TMn 13	T314	MCn 13 NOT MCn 13	M N/A	13	[ ]Yes [ ]No [ ]N/A	4 s	
TMn 14	T316	MCn 5.2 NOT MCn 5.2	M N/A	13	[ ]Yes [ ]No [ ]N/A	120 s	
TMn 15	T317	MCn 5.1 NOT MCn 5.1	M N/A	13	[ ]Yes [ ]No [ ]N/A	< T316	
TMn 19	T322		M	13	[ ]Yes [ ]No	4 s	
TMu 20	T1-USBS		M	13	[ ]Yes [ ]No [ ]N/A	>15 minutes	
TMu 21	T2-USBS		M	13	[ ]Yes [ ]No	= T1-USBS	
TMu 22	T3-USBS		M	13	[ ]Yes [ ]No	10 s	
NOTE: The value of T309 is calculated according to the formula: T309 = (N200+1)*T200+2 s.							
Comments:							

A.8.7 Compatibility information elements structure

Table A.97 shall be completed in order to evaluate the chance of interoperability of two implementations.

NOTE: Because the HLC is transferred transparently by the network, there is no table dealing with it.

Table A.97: Bearer capability structure

Item	Information element field	Status	Values	Support
ISn 1.1	Octet 3 bits 6 and 7, coding standard	M		[ ]Yes [ ]No
	1. CCITT standardized coding 2. ISO/IEC standard 3. National standard 4. Network specific standard	M N/A N/A N/A	0 1 2 3	[ ]Yes [ ]No
ISn 1.2	Octet 3 bits 1 to 5, information transfer capability	M		[ ]Yes [ ]No
	1. Speech 2. Unrestricted digital 3. Restricted digital 4. 3,1 kHz audio 5. Unrestricted digital information with tones/announcements 6. Video	N/A M N/A N/A N/A N/A	0 8 9 16 17 24	[ ]Yes [ ]No [
ISn 1.3	Octet 4 bits 6 and 7, transfer mode	M		[ ]Yes [ ]No
	1. Circuit 2. Packet	N/A M	0 2	[[ ]Yes [ ]No
ISn 1.4	Octet 4 bits 1 to 5, information transfer rate	M		[ ]Yes [ ]No
	0. Packet 1. 64 kbit/s 2. 2 x 64 kbit/s 3. 384 kbit/s 4. 1536 kbit/s 5. 1920 kbit/s 6. Multirate	M N/A N/A N/A N/A N/A N/A	0 16 17 19 21 23 24	[ ]Yes [ ]No [
ISn 1.9	Octet 4.1 Rate multiplier	N/A		
ISn 1.10	Octet 5	N/A		
ISn 1.30	Octet 6 bits 1 to 5, user information layer 2 protocol	M		[ ]Yes [ ]No
	1. Q.921 2. X.25 link level	M N/A	2 6	[ ]Yes [ ]No
ISn 1.31	Octet 7 bits 1 to 5, user information layer 3 protocol	M		[ ]Yes [ ]No
	1. Q.931 2. X.25 packet layer	M N/A	2 6	[ ]Yes [ ]No
Comments:				

A.8.8 Numbering information elements structure

The following tables concern the Calling Party Number and Called Party Number information elements. These tables shall be completed in order to evaluate the chance of interoperability of two implementations.

Table A.98: Calling party number information element in SETUP received by the network

Item	Does the implementation support Calling party number information element parameters and values...	Conditions for status	Status	Values	Support
CGPrn 1.1	TON (octet 3)		M		[ ]Yes [ ]No
CGPrn 1.2	NPI (octet 3)		M		[ ]Yes [ ]No
CGPrn 1.3	Presentation indicator (octet 3a)		M		[ ]Yes [ ]No
CGPrn 1.4	Screening indicator (octet 3a)		M		[ ]Yes [ ]No
CGPrn 1.5	Number digits (octet 4 onwards)		M	Up to 20 digits; max. value supported:	[ ]Yes [ ]No
Comments:					

Table A.99: Calling party number information element in SETUP transmitted by the network

Item	Does the implementation support Calling party number information element parameters...	Conditions for status	Status	Values	Support
CGPtn 1.1	TON (octet 3)	MTn 19-IE6 NOT MTn 19-IE6	M N/A		[ ]Yes [ ]No [ ]N/A
	1. Unknown		O	0	[ ]Yes [ ]No
	2. International number		O	1	[ ]Yes [ ]No
	3. National number		O	2	[ ]Yes [ ]No
	4. Network specific number		O	3	[ ]Yes [ ]No
	5. Subscriber number		O	4	[ ]Yes [ ]No
	6. Abbreviated number		X	6	[ ]Yes [ ]No
CGPtn 1.2	NPI (octet 3)	MTn 19-IE6 NOT MTn 19-IE6	M N/A		[ ]Yes [ ]No [ ]N/A
	1. Unknown		O	0	[ ]Yes [ ]No
	2. ISDN/telephony numbering plan		O	1	[ ]Yes [ ]No
	3. Data numbering plan		O	3	[ ]Yes [ ]No
	4. Telex numbering plan		O	4	[ ]Yes [ ]No
	5. National standard numbering plan		O	8	[ ]Yes [ ]No
	6. Private numbering plan		O	9	[ ]Yes [ ]No
CGPtn 1.3	Presentation indicator (octet 3a)	MTn 19-IE6 NOT MTn 19-IE6	O N/A		[ ]Yes [ ]No [ ]N/A
	1. Presentation allowed		O	0	[ ]Yes [ ]No
	2. Presentation restricted		O	1	[ ]Yes [ ]No
	3. Number not available due to interworking		O	2	[ ]Yes [ ]No
CGPtn 1.4	Screening indicator (octet 3a)	MTn 19-IE6 NOT MTn 19-IE6	O N/A		[ ]Yes [ ]No [ ]N/A
	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		X	2	[ ]Yes [ ]No
	4. Network provided		O	3	[ ]Yes [ ]No
CGPtn 1.5	Number digits (octet 4 onwards)	MTn 19-IE6 NOT MTn 19-IE6	O N/A	Up to 20 digits; max. value supported:	[ ]Yes [ ]No [ ]N/A
Comments:					

Table A.100: Called party number information element in SETUP received by the network

Item	Does the implementation support Called party number information element parameters...	Conditions for status	Status	Values	Support
CDP1rn 1.1	TON (octet 3)		M		[ ]Yes [ ]No
CDP1rn 1.2	NPI (octet 3)		M		[ ]Yes [ ]No
CDP1rn 1.3	Number digits (octet 4 onwards)		M	Up to 20 digits; max. value supported:	[ ]Yes [ ]No
Comments:					

Table A.101: Called party number information element in SETUP transmitted by the network

Item	Does the implementation support Called party number information element parameters...	Conditions for status	Status	Values	Support
CDP1tn 1.1	TON (octet 3)		M		[ ]Yes [ ]No
	1. Unknown		O	0	[ ]Yes [ ]No
	2. International number		O	1	[ ]Yes [ ]No
	3. National number		O	2	[ ]Yes [ ]No
	4. Network specific number		O	3	[ ]Yes [ ]No
	5. Subscriber number		O	4	[ ]Yes [ ]No
	6. Abbreviated number		O	6	[ ]Yes [ ]No
CDP1tn 1.2	NPI (octet 3)		M		[ ]Yes [ ]No
	1. Unknown		O	0	[ ]Yes [ ]No
	2. ISDN/telephony numbering plan		O	1	[ ]Yes [ ]No
	3. Data numbering plan		O	3	[ ]Yes [ ]No
	4. Telex numbering plan		O	4	[ ]Yes [ ]No
	5. National standard numbering plan		O	8	[ ]Yes [ ]No
	6. Private numbering plan		O	9	[ ]Yes [ ]No
CDP1tn 1.3	Number digits (octet 4 onwards)		O	Up to 20 digits; max. value supported:	[ ]Yes [ ]No
Comments:					

Table A.102: Called party number information element in INFORMATION received by the network

Item	Does the implementation support Called party number information element parameters...	Conditions for status	Status	Values	Support
CDP2rn 1.1	TON (octet 3)		M		[ ]Yes [ ]No
CDP2rn 1.2	NPI (octet 3)		M		[ ]Yes [ ]No
CDP2rn 1.3	Number digits (octet 4 onwards)		M	Up to 20 digits; max. value supported:	[ ]Yes [ ]No
Comments:					

Table A.103: Called party number information element in INFORMATION transmitted by the network

Item	Does the implementation support Called party number information element parameters...	Conditions for status	Status	Values	Support
CDP2tn 1.1	TON (octet 3)	MTn 8-IE4 NOT MTn 8-IE4	M N/A		[ ]Yes [ ]No [ ]N/A
	1. Unknown		O	0	[ ]Yes [ ]No
	2. International number		O	1	[ ]Yes [ ]No
	3. National number		O	2	[ ]Yes [ ]No
	4. Network specific number		O	3	[ ]Yes [ ]No
	5. Subscriber number		O	4	[ ]Yes [ ]No
	6. Abbreviated number		O	6	[ ]Yes [ ]No
CDP2tn 1.2	NPI (octet 3)	MTn 8-IE4 NOT MTn 8-IE4	M N/A		[ ]Yes [ ]No [ ]N/A
	1. Unknown		O	0	[ ]Yes [ ]No
	2. ISDN/telephony numbering plan		O	1	[ ]Yes [ ]No
	3. Data numbering plan		O	3	[ ]Yes [ ]No
	4. Telex numbering plan		O	4	[ ]Yes [ ]No
	5. National standard numbering plan		O	8	[ ]Yes [ ]No
	6. Private numbering plan		O	9	[ ]Yes [ ]No
CDP2tn 1.3	Number digits (octet 4 onwards)	MTn 8-IE4 NOT MTn 8-IE4	O N/A	Up to 20 digits; max. value supported:	[ ]Yes [ ]No [ ]N/A
Comments:					

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