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European Standard (Telecommunications series)

**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**



Reference

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DSS1, ISDN, layer 3, PICS

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

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

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN), and is now submitted for the ETSI standards One-step Approval Procedure.

The present document is part 3 of a multi-part standard covering the Digital Subscriber Signalling System No. one (DSS1) protocol specification for the Integrated Services Digital Network (ISDN) signalling network layer for circuit-mode basic call control, as described below:

- Part 1: "Protocol specification";
- Part 2: "Specification and Description Language (SDL) diagrams";
- Part 3: "Protocol Implementation Conformance Statement (PICS) proforma specification";**
- Part 4: "Test Suite Structure and Test Purposes (TSS&TP) specification for the user";
- Part 5: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the user";
- Part 6: "Test Suite Structure and Test Purposes (TSS&TP) specification for the network";
- Part 7: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the network".

| Proposed national transposition dates | |
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| Date of latest announcement of this EN (doa): | 3 months after ETSI publication |
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| 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".

ETS 300 403-1 [1] is derived from ITU-T Recommendation Q.931 [5]. However, no PICS proforma exists for this Recommendation. Therefore, ETSI has created a PICS proforma that is specific to the European environment. This PICS proforma reflects the requirements contained in ITU-T Recommendation Q.931 [5] with the modifications applied by ETS 300 403-1 [1]. This has been done to assist understanding of how the European requirements relate to the requirements contained within ITU-T Recommendation Q.931 [5] (and in particular, to the options specified in that Recommendation that are selected by the ETS). In practical terms, this means that a number of capabilities specified by ITU-T Recommendation Q.931 [5] appear as items in this PICS proforma with a status more akin to the status that would be expected in a profile ICS (i.e. out-of-scope (I), prohibited (X)).

Annex B of the present document describes the differences between the proforma contained in annex A and the proforma for the earlier version of the DSS1 protocol as specified in ETS 300 102-1 [2].

1 Scope

The present document provides the Protocol Implementation Conformance Statement (PICS) proforma for the Integrated Services Digital Network (ISDN) Digital Subscriber Signalling System No. one (DSS1) protocol signalling network layer for circuit-mode basic call control as specified in ETS 300 403-1 [1] and ETS 300 403-2 [2] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [4].

Both the packet communication procedures (see clause 6 of ETS 300 403-1 [1]) and the User Signalling Bearer Service (USBS) procedures (see clause 7 of ETS 300 403-1 [1]) are excluded from this PICS proforma.

The supplier of an implementation that is claimed to conform to ETS 300 403-1 [1] and ETS 300 403-2 [2] is required to complete a copy of the PICS proforma provided in annex A of the present document and is required to provide the information necessary to identify both the supplier and the implementation.

2 References

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

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

- [1] ETSI ETS 300 403-1 (1995): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified]".
- [2] ETSI ETS 300 403-2 (1995): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 2: Specification and Description Language (SDL) diagrams".
- [3] ISO/IEC 9646-1 (1994): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [4] ISO/IEC 9646-7 (1995): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".
- [5] ITU-T Recommendation Q.931 (1993): "Digital Subscriber Signalling System No. 1 (DSS1) - ISDN user-network interface layer 3 specification for basic call control".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply, in addition to those in ETS 300 403-1 [1], ETS 300 403-2 [2], ISO/IEC 9646-1 [3] and ISO/IEC 9646-7 [4]:

Implementation Conformance Statement (ICS): 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: DSS1 protocol entity at the network side of the user-network interface

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

PICS proforma: 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: 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 |
| IE | Information Element |
| ISDN | Integrated Services Digital Network |
| IUT | Implementation Under Test |
| LLC | Low Layer Compatibility information element |
| 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 |
| 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 ETS 300 403-1 [1] and ETS 300 403-2 [2];
- 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 ETS 300 403-1 and ETS 300 403-2

| |
|--|
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|--|

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 ETS 300 403-1 [1] and ETS 300 403-2 [2] 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.

NOTE: Where possible, backwards compatibility has been maintained between the item references used in this PICS proforma and those used in the PICS proforma for the earlier version of the DSS1 protocol described in ETS 300 102-1 (see bibliography).

In general, the same mnemonics have been used in this PICS proforma as in earlier proforma. An additional lower case letter has been added to differentiate PICS items related to the user role (e.g. MCu) and PICS items related to the network role (e.g. MCn). In earlier PICS proforma both these cases were identified by the same mnemonic (e.g. MC).

A further consequence of maintaining backwards compatibility is the appearance of discontinuities in the numeric part of the item reference. There are, for example, PICS items listed as messages transmitted by the network with the references "MTn 2" and "MTn 4"; the reference between, "MTn 3" is not used.

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 contain 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 | prohibited (excluded) - 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 ETS 300 403-1 [1] and ETS 300 403-2 [2].

Reference column:

Except where explicitly stated, the reference column refers to the appropriate parts of ETS 300 403-1 [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 ETS 300 403-1 [1] and ETS 300 403-2 [2] 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:

| | |
|--|--|
| <input type="checkbox"/> Yes <input type="checkbox"/> No | Tick "Yes" if item is supported, tick "No" if item is not supported. |
| <input type="checkbox"/> N/A | Tick "N/A" if the item is "not applicable". |

Prerequisite line:

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

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

A.1.3 Instructions for completing the PICS proforma

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

A.2 Identification of the implementation

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

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

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

A.2.1 Date of the statement

.....

A.2.2 Implementation Under Test (IUT) identification

IUT name:

.....

IUT version:

.....

A.2.3 System Under Test (SUT) identification

SUT name:

.....

Hardware configuration:

.....

Operating system:

.....

A.2.4 Product supplier

Name:

.....

E-mail address:

.....

Address:

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

Telephone number:

.....

Facsimile number:

.....

Additional information:

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

A.2.5 Client

Name:

.....

E-mail address:

.....

Address:

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

Telephone number:

.....

Facsimile number:

.....

Additional information:

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

A.2.6 PICS contact person

Name:

.....

E-mail address:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

Additional information:

.....

.....

.....

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

This PICS proforma applies to the following standards:

- **ETS 300 403-1 (1995)**: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified]"; and
- **ETS 300 403-2 (1995)**: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 2: Specification Description Language (SDL) diagrams".

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, Progress indicator, 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 (clauses A.7.5 and A.8.5), the PICS proforma asks questions about the information elements (parameters) supported in messages (PDUs) received by the IUT. This clause explains, in the context of ETS 300 403-1 [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 ETS 300 403-1 [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. ETS 300 403-1 [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 ETS 300 403-1 [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 and Low 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 | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| R 2.2 | the network role | | O.1 | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Type of interface | | | | | |
| R 3.1 | requirements at the coincident S and T reference point | | O.2 | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| R 3.2 | requirements for interworking with private ISDNs at the T reference point | | O.2 | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| R 4 | not used | | | | |
| R 5 | not used | | | | |
| R 6.1 | basic access | | O.3 | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| R 6.2 | primary rate access | | O.3 | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| R 7.1 | point-to-point configuration | R 6.1 R 6.2 | O.4 M | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| R 7.2 | multi-point configuration | R 6.1 R 6.2 | O.4 N/A | | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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 clause need only to be completed for user implementations.

Prerequisite: R 2.1

A.7.1 Type of implementation

Answers to the questions in table A.2 are required to permit the conditions for status for the user role to be properly evaluated for a specific IUT. The questions refer to aspects outside the scope of ETS 300 403-1 [1], but which affect the behaviour of the basic call protocol.

Table A.2: Type of implementation

| Item | Type of implementation Does the implementation... | Conditions for status | Status | Reference | Support |
|-------|---|--------------------------|--------|----------------|--------------|
| Tlu 1 | (e.g. a PABX) provide interworking capability with non-ISDN equipment | | I | 5.1.6, 5.2.6 | []Yes []No |
| Tlu 2 | support one or more of the speech, 3,1 kHz audio or unrestricted digital information with tones/announcements bearer capabilities | | I | 5.1 | []Yes []No |
| Tlu 3 | provide (or transmit) in-band tones/announcements as a called user | | I | 5.2.6, annex K | []Yes []No |
| Tlu 4 | support one or more "existing services" (note) | | I | 5.13 | []Yes []No |
| Tlu 5 | support services other than "existing services" (note) | | I | 5.13 | []Yes []No |
| NOTE: | "Existing services" are those basic telecommunication services associated with the speech, 3,1 kHz audio and 64 kbit/s unrestricted bearer capabilities. Services other than the existing services include services based on, for example, the unrestricted digital information with tones / announcements bearer capability. | | | | |

A.7.2 Major capabilities

Each question in table A.3 refers to a major function of the protocol. Answering "Yes" to a particular question states that the implementation supports all the mandatory procedures for that function defined in the referenced clauses and clauses of ETS 300 403-1 [1]. Answering "No" to a particular question states that the implementation does not support that function of the protocol.

Table A.3: 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 | 5.1 | []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 | 5.1.1, 5.1.5.1 | []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 | 5.1.3, 5.1.5.2 | []Yes []No []N/A |
| MCu 1.3 | sending of a notification of interworking on an outgoing call (notification sent by the calling user) | MCu 1 AND Tlu 1 NOT MCu 1 OR NOT Tlu 1 | M N/A | 5.1.6 (last paragraph) | []Yes []No []N/A |
| MCu 1.4 | transit network selection | MCu 1 NOT MCu 1 | O N/A | 5.1.10, annex C | []Yes []No []N/A |
| MCu 1.5 | procedures associated with network's provision of in-band tones/announcements | MCu 1 AND Tlu 2 MCu 1 AND NOT Tlu 2 NOT MCu 1 | M O N/A | 5.1.2, 5.1.3, 5.1.6, 5.4 | []Yes []No []N/A |
| MCu 1.6 | interpretation of a notification of interworking on an outgoing call (notification received by the calling user) | MCu 1 NOT MCu 1 | M N/A | 5.1.6 (first to third paragraph) | []Yes []No []N/A |
| MCu 1.7 | generation of local tones and local alerting indications | MCu 1 NOT MCu 1 | O N/A | 5.1.2, 5.1.7 | []Yes []No []N/A |
| MCu 2 | incoming calls | | O.5 | 5.2 | []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 | 5.2.1, 5.2.5.1 | []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 | 5.2.1, 5.2.4, 5.2.5.1 | []Yes []No []N/A |
| MCu 2.3 | interpretation of a notification of interworking on an incoming call (notification received by the called user) | MCu 2 NOT MCu 2 | M N/A | 5.2.6 (first paragraph) | []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 | 5.2.1, 5.2.3.1 | []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 | 5.2.1, 5.2.3.2 | []Yes []No []N/A |
| MCu 2.6 | sending of a notification of interworking on an incoming call (notification sent by the called user) | MCu 2 AND Tlu 1 NOT MCu 2 OR NOT Tlu 1 | M N/A | 5.2.6 (second to fourth paragraph) | []Yes []No []N/A |
| MCu 2.7 | compatibility checking | MCu 2 NOT MCu 2 | M N/A | 5.2.2, annex B | []Yes []No []N/A |
| Others | | | | | |
| MCu 3 | initiation of call clearing | | M | 5.3.3 | []Yes []No |
| MCu 4.1 | call clearing initiated by the network when tones/announcements provided | | O | 5.3.4.1 | []Yes []No |
| MCu 4.2 | call clearing initiated by the network when tones/announcements are not provided | | M | 5.3.4.2 | []Yes []No |
| MCu 5.1 | restart procedure (interpretation of a received RESTART message) | R 7.1 NOT R 7.1 | M O | 5.5.2 | []Yes []No |
| MCu 5.2 | initiation of restart procedure | R 7.1 NOT R 7.1 | M O | 5.5.1 | []Yes []No |
| MCu 6 | initiation of call rearrangement | R 6.1 R 6.2 | O X | 5.6 | []Yes []No |

| Item | Major capability Does the implementation support... | Conditions for status | Status | Reference | Support |
|-----------|--|--|----------|-------------------------|------------------------|
| MCu 7.1 | response procedure to status enquiry request | | M | 5.8.10 | []Yes []No |
| MCu 7.2 | initiation of status enquiry procedure | | O | 5.8.10 | []Yes []No |
| MCu 8 | symmetric call operation | | X | 2.1, annex D | []Yes []No |
| MCu 9 | invocation of network specific facility selection | MCu 1 NOT MCu 1 | O N/A | annex E | []Yes []No []N/A |
| MCu 10.1 | initiation of LLC negotiation (as a calling user) | MCu 1 NOT MCu 1 | O N/A | J.3 | []Yes []No []N/A |
| MCu 10.2 | processing of a LLC negotiation received in a SETUP (as a called user) | MCu 2 NOT MCu 2 | O N/A | J.3 | []Yes []No []N/A |
| MCu 11 | procedures for the control of the user signalling bearer service | | I | 1.1, 2.2, 3.2, 7 | []Yes []No |
| MCu 13 | message segmentation procedures | | O | annex H | []Yes []No |
| MCu 14 | D-channel backup procedure | | X | annex F | []Yes []No |
| MCu 15 | procedures for bearer service change | | X | annex L | []Yes []No |
| MCu 16 | procedures for the control of packet communications | | I | 1.1, 3.3, 6 | []Yes []No |
| MCu 17 | procedures for the control of circuit-mode multirate connections | | O | 8 | []Yes []No |
| MCu 19 | handling of error conditions | | M | 5.8 | []Yes []No |
| MCu 20 | initiation of a user notification procedure | MCu 6 AND R 3.2 NOT MCu 6 OR NOT R 3.2 | O N/A | 5.9 | []Yes []No []N/A |
| MCu 21.1 | initiation of BC selection (as a calling user) | MCu 1 NOT MCu 1 | O N/A | 5.10, 5.11.1 | []Yes []No []N/A |
| MCu 21.2 | processing of incoming BC selection request (as a called user) | MCu 2 NOT MCu 2 | O N/A | 5.10, 5.11.2, 5.11.3 | []Yes []No []N/A |
| MCu 22.1 | initiation of HLC selection (as a calling user) | MCu 1 NOT MCu 1 | O N/A | 5.10, 5.12.1 | []Yes []No []N/A |
| MCu 22.2 | processing of incoming HLC selection request (as a called user) | MCu 2 NOT MCu 2 | O N/A | 5.10, 5.12.2, 5.12.3 | []Yes []No []N/A |
| MCu 23.1 | status request procedures for "existing services" | R 3.1 AND Tlu 4 NOT R 3.1 OR NOT Tlu 4 | O N/A | 5.13 | []Yes []No []N/A |
| MCu 23.2 | status request procedures for services other than "existing services" | R 3.1 AND Tlu 5 NOT R 3.1 OR NOT Tlu 5 | M N/A | 5.13 | []Yes []No []N/A |
| 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.4 states that the implementation supports special cases or options within a major capability.

Table A.4: 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 | 4.3 | []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 | 4.3 | []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 | 4.3 | []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 | 5.1.1, 5.1.3 | []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 | 5.1.1, 5.1.3 | []Yes []No []N/A |
| SCu 100 | use of the sending complete indication | MCu 1 NOT MCu 1 | O N/A | 5.1.1, 5.1.3 | []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 | 5.1.1, 5.1.3 | []Yes []No []N/A |
| SCu 102 | use of "#" as the sending complete indication | SCu 100 NOT SCu 100 | X N/A | 5.1.1, 5.1.3 | []Yes []No []N/A |
| SCu 103 | deferring attachment to the B-channel until receipt of an appropriate call control message containing progress indicator no. 8 "In-band information or appropriate pattern is now available" or progress indicator no. 1 "call is not end-to-end ISDN; further call progress information may be available in-band" | MCu 1 NOT MCu 1 | O N/A | 5.1.2, 5.1.3, 5.1.7, 5.4 | []Yes []No []N/A |
| SCu 3 | sending of CONNECT ACKNOWLEDGE message during outgoing call establishment | MCu 1 NOT MCu 1 | O N/A | 5.1.8 | []Yes []No []N/A |
| SCu 4 | monitor the status of B-channels (in use or not in use) | MCu 1 NOT MCu 1 | O N/A | 5.1.1 | []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 | 5.2 | []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 | 5.2.1 | []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 | 5.2.1 | []Yes []No []N/A |
| SCu 112.2 | recognition of "#" as the sending complete indication | | N/A | 5.2.1 | N/A |
| SCu 5 | compatibility checking of the bearer service | MCu 2 NOT MCu 2 | M N/A | 5.2.2, annex B.3.2 | []Yes []No []N/A |
| SCu 6 | compatibility checking of the lower layers | MCu 2 AND R 3.1 MCu 2 AND NOT R 3.1 NOT MCu 2 | M O N/A | 5.2.2, annex B.3.3 | []Yes []No []N/A |
| SCu 8 | compatibility checking of the higher layers | MCu 2 NOT MCu 2 | O N/A | 5.2.2, annex B.3.3 | []Yes []No []N/A |
| SCu 113 | compatibility checking using the User-user information element | MCu 2 NOT MCu 2 | O N/A | 5.2.2, 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 | 5.2.2 | []Yes []No []N/A |

| Item | Subsidiary capability Does the implementation support... | Conditions for status | Status | Reference | Support |
|-------------------------------------|---|---|---------------|---------------|------------------------|
| SCu 114.2 | rejection of incompatible incoming calls on a broadcast data link | R 7.2 NOT R 7.2 | O.7 N/A | 5.2.2 | []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 | 5.2.2 | []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 | 5.2.5.1 | []Yes []No []N/A |
| Call clearing | | | | | |
| SCu 120.1 | inclusion of a second Cause information element (cause no. 102 "recovery on timer expiry") in the RELEASE message sent by the user on expiry of T305 | | O | 5.3.4bis | []Yes []No |
| SCu 120.2 | inclusion of a diagnostic field in the second Cause information element (cause no. 102 "recovery on timer expiry") of the RELEASE message sent by the network on expiry of T305 | SCu 120.1 NOT SCu 120.1 | O N/A | 5.3.4bis | []Yes []No []N/A |
| SCu 121 | placing a B-channel in the maintenance condition after T308 expires for the second time | R 7.1 R 7.2 | O N/A | 5.3.4bis | []Yes []No []N/A |
| SCu 122.1 | connection to the B-channel to receive the in-band tone/announcement | MCu 4.1 NOT MCu 4.1 | O.8 N/A | 5.3.4.1 | []Yes []No []N/A |
| SCu 122.2 | continuation of clearing without connecting to the in-band tone/announcement | MCu 4.1 NOT MCu 4.1 | O.8 M | 5.3.4.1 | []Yes []No |
| Restart | | | | | |
| SCu 125.1 | initiation of restart procedure on "indicated channel" | MCu 5.2 NOT MCu 5.2 | O.9 N/A | 5.5.1 | []Yes []No []N/A |
| SCu 125.2 | initiation of restart procedure on "single interface" (or "all interfaces") | MCu 5.2 NOT MCu 5.2 | O.9 N/A | 5.5.1 | []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.10 | 5.8 | []Yes []No |
| 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.10 | 5.8 | []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.11 | 5.8.3.2.a) | []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.11 | 5.8.3.2.a) | []Yes []No |
| SCu 19 | on occurrence of a message type or message sequence error, transmission of a STATUS message | | O.12 | 5.8.4 | []Yes []No |
| SCu 20 | on occurrence of a message type or message sequence error, initiation of the status enquiry procedure | | O.12 | 5.8.4, 5.8.10 | []Yes []No |
| SCu 23 | processing of out of sequence information elements | | O.13 | 5.8.5.1 | []Yes []No |
| SCu 24 | ignoring out of sequence information elements | | O.13 | 5.8.5.1 | []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 | 5.8.7.1 | []Yes []No |

| Item | Subsidiary capability Does the implementation support... | Conditions for status | Status | Reference | Support |
|-----------------------------------|--|---|-------------|--------------------|------------------------|
| SCu 132 | cause no. 99 "Information element non-existent or not implemented" with diagnostic(s) | | O | 5.8.7.1 | []Yes []No |
| SCu 37 | on occurrence of non-mandatory information element content error, transmission of a STATUS message | | O | 5.8.7.2 | []Yes []No |
| SCu 37.1 | acceptance of unrecognized Cause information element contents | | O | 5.8.6.2 5.8.7.2 | []Yes []No |
| Data link failure | | | | | |
| SCu 45.1 | transmission of a STATUS message | | O.14 | 5.8.9 b) | []Yes []No |
| SCu 45.2 | initiation of the status enquiry procedure | | O.14 | 5.8.9 b) | []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 | 5.8.10 | []Yes []No []N/A |
| Receiving a STATUS message | | | | | |
| SCu 160.1 | clearing the call on a call state mismatch | | O.15 | 5.8.11 | []Yes []No |
| SCu 160.2 | attempt to recover from a call state mismatch by implementation dependent means | | O.15 | 5.8.11 | []Yes []No |
| Multirate procedures | | | | | |
| SCu 170.1 | contiguous channel assignment | MCu 17 NOT MCu 17 | O.16 N/A | 8.1.2, 8.2.2 | []Yes []No []N/A |
| SCu 170.2 | non-contiguous channel assignment | MCu 17 NOT MCu 17 | O.16 N/A | 8.1.2, 8.2.2 | []Yes []No []N/A |
| SCu 171.1 | 384 kbit/s rate occupying specified contiguous time slots | MCu 17 AND R 6.2 NOT MCu 17 OR NOT R 6.2 | O N/A | 8.1.2, 8.2.2 | []Yes []No []N/A |
| SCu 171.2 | 1 536 kbit/s rate occupying specified contiguous time slots | MCu 17 AND R 6.2 NOT MCu 17 OR NOT R 6.2 | O N/A | 8.1.2, 8.2.2 | []Yes []No []N/A |
| SCu 172.1 | selection of any other available B-channels associated with the D-channel and on the same access | MCu 17 NOT MCu 17 | M N/A | 8.1.2, 8.2.2.1 | []Yes []No []N/A |
| SCu 172.2 | selection of all the B-channels on another interface controlled by the D-channel | MCu 17 NOT MCu 17 | X N/A | 8.1.2, 8.2.2.1 | []Yes []No []N/A |
| SCu 173 | interworking between circuit-mode multirate bearer capability and other bearer capabilities | MCu 17 NOT MCu 17 | X N/A | 8.1.3, 8.2.3 | []Yes []No []N/A |
| O.7 | Support of at least one of these options is required. | | | | |
| O.8 | Support of at least one of these options is required. | | | | |
| O.9 | Support of at least one of these options is required. | | | | |
| O.10 | Support of one, and only 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. | | | | |
| O.14 | Support of at least one of these options is required. | | | | |
| O.15 | Support of at least one of these options is required. | | | | |
| O.16 | 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 clause 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.5 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 ETS 300 403-1 [1].

Table A.5: Messages received by the user

| Item | Message Does the implementation support the receipt of... | Conditions for status | Status | Reference | Support |
|-----------|---|--------------------------|----------|------------------------------------|------------------------|
| MRu 1 | ALERTING | MCu 1 NOT MCu 1 | M N/A | 3.1.1, 5.1.7 | []Yes []No []N/A |
| MRu 2 | CALL PROCEEDING | MCu 1 NOT MCu 1 | M N/A | 3.1.2, 5.1.5 | []Yes []No []N/A |
| MRu 4 | CONNECT | MCu 1 NOT MCu 1 | M N/A | 3.1.3, 5.1.8 | []Yes []No []N/A |
| MRu 5 | CONNECT ACKNOWLEDGE | MCu 2 NOT MCu 2 | M N/A | 3.1.4, 5.2.8 | []Yes []No []N/A |
| MRu 6 | DISCONNECT | | M | 3.1.5, 5.3.4 | []Yes []No |
| MRu 8 | INFORMATION | MCu 2.2 NOT MCu 2.2 | M O | 3.1.6, 5.2.4 | []Yes []No |
| MRu 9 | NOTIFY | | M | 3.1.7, 5.6.2, 5.6.4, 5.6.7, 5.9 | []Yes []No |
| MRu 10 | PROGRESS | | M | 3.1.8, 5.1.6, 5.4 | []Yes []No |
| MRu 11 | RELEASE | | M | 3.1.9, 5.3 | []Yes []No |
| MRu 12 | RELEASE COMPLETE | | M | 3.1.10, 5.3 | []Yes []No |
| MRu 13 | RESTART | MCu 5.1 NOT MCu 5.1 | M N/A | 3.4.1, 5.5.2 | []Yes []No []N/A |
| MRu 14 | RESTART ACKNOWLEDGE | MCu 5.2 NOT MCu 5.2 | M N/A | 3.4.2, 5.5.1 | []Yes []No []N/A |
| MRu 15 | RESUME | | N/A | | N/A |
| MRu 16 | RESUME ACKNOWLEDGE | MCu 6 NOT MCu 6 | M N/A | 3.1.12, 5.6.4 | []Yes []No []N/A |
| MRu 17 | RESUME REJECT | MCu 6 NOT MCu 6 | M N/A | 3.1.13, 5.6.5 | []Yes []No []N/A |
| MRu 18 | SEGMENT | MCu 13 NOT MCu 13 | M N/A | 3.5.1, annex H | []Yes []No []N/A |
| MRu 19 | SETUP | MCu 2 NOT MCu 2 | M N/A | 3.1.14, 5.2.1 | []Yes []No []N/A |
| MRu 20 | SETUP ACKNOWLEDGE | MCu 1.2 NOT MCu 1.2 | M N/A | 3.1.15, 5.1.3 | []Yes []No []N/A |
| MRu 21 | STATUS | | M | 3.1.16, 3.4.3, 5.8.11 | []Yes []No |
| MRu 22 | STATUS ENQUIRY | | M | 3.1.17, 5.8.10 | []Yes []No |
| MRu 23 | SUSPEND | | N/A | | N/A |
| MRu 24 | SUSPEND ACKNOWLEDGE | MCu 6 NOT MCu 6 | M N/A | 3.1.19, 5.6.2 | []Yes []No []N/A |
| MRu 25 | SUSPEND REJECT | MCu 6 NOT MCu 6 | M N/A | 3.1.20, 5.6.3 | []Yes []No []N/A |
| Comments: | | | | | |

A.7.4.2 Messages transmitted by the user

Indicating support for an item in table A.6 states that the implementation has the ability to transmit the message listed in that item.

Table A.6: 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 | 3.1.1, 5.2.5.2 | []Yes []No []N/A |
| MTu 2 | CALL PROCEEDING | MCu 2 NOT MCu 2 | O N/A | 3.1.2, 5.2.5.2 | []Yes []No []N/A |
| MTu 4 | CONNECT | MCu 2 NOT MCu 2 | M N/A | 3.1.3, 5.2.7 | []Yes []No []N/A |
| MTu 5 | CONNECT ACKNOWLEDGE | MCu 1 NOT MCu 1 | O N/A | 3.1.4, 5.1.8 | []Yes []No []N/A |
| MTu 6 | DISCONNECT | | M | 3.1.5, 5.3.3 | []Yes []No |
| MTu 8 | INFORMATION | MCu 1.2 NOT MCu 1.2 | M O | 3.1.6, 5.1.3 | []Yes []No |
| MTu 9 | NOTIFY | MCu 20 NOT MCu 20 | M N/A | 3.1.7, 5.9 | []Yes []No []N/A |
| MTu 10.1 | PROGRESS, indicating that fallback to an alternative bearer capability occurs | MCu 21.2 AND R 3.2 MCu 21.2 AND NOT R 3.2 NOT MCu 21.2 | O.17 X N/A | 3.1.8, 5.11.2, 5.11.3 | []Yes []No []N/A |
| MTu 10.2 | PROGRESS, indicating that fallback to an alternative high layer capability occurs | MCu 22.2 AND R 3.2 MCu 22.2 AND NOT R 3.2 NOT MCu 22.2 | O.18 X N/A | 3.1.8, 5.12.2, 5.12.3 | []Yes []No []N/A |
| MTu 10.3 | PROGRESS, indicating that in-band information is available | Tlu 3 NOT Tlu 3 | M N/A | 3.1.8, 5.2.6, annex K | []Yes []No []N/A |
| MTu 10.4 | PROGRESS, indicating interworking | MCu 2.6 NOT MCu 2.6 | M N/A | 3.1.8, 5.2.6 | []Yes []No []N/A |
| MTu 11 | RELEASE | | M | 3.1.9, 5.3 | []Yes []No |
| MTu 12 | RELEASE COMPLETE | | M | 3.1.10, 5.3 | []Yes []No |
| MTu 13 | RESTART | MCu 5.2 NOT MCu 5.2 | M N/A | 3.4.1, 5.5.1 | []Yes []No []N/A |
| MTu 14 | RESTART ACKNOWLEDGE | MCu 5.1 NOT MCu 5.1 | M N/A | 3.4.2, 5.5.2 | []Yes []No []N/A |
| MTu 15 | RESUME | MCu 6 NOT MCu 6 | M N/A | 3.1.11, 5.6.4 | []Yes []No []N/A |
| MTu 16 | RESUME ACKNOWLEDGE | | N/A | | N/A |
| MTu 17 | RESUME REJECT | | N/A | | N/A |
| MTu 18 | SEGMENT | MCu 13 NOT MCu 13 | M N/A | 3.5.1, annex H | []Yes []No []N/A |
| MTu 19 | SETUP | MCu 1 NOT MCu 1 | M N/A | 3.1.14, 5.1.1 | []Yes []No []N/A |
| MTu 20 | SETUP ACKNOWLEDGE | MCu 2.2 NOT MCu 2.2 | M O | 3.1.15, 5.2.4 | []Yes []No |
| MTu 21 | STATUS | | M | 3.1.16, 3.4.3, 5.8.11 | []Yes []No |
| MTu 22 | STATUS ENQUIRY | MCu 7.2 NOT MCu 7.2 | M N/A | 3.1.17, 5.8.10 | []Yes []No []N/A |
| MTu 23 | SUSPEND | MCu 6 NOT MCu 6 | M N/A | 3.1.18, 5.6.1 | []Yes []No []N/A |
| MTu 24 | SUSPEND ACKNOWLEDGE | | N/A | | N/A |
| MTu 25 | SUSPEND REJECT | | N/A | | N/A |
| O.17 | Support of at least one of these options is required (see tables A.32, A.33, and A.34 for other options in this set). | | | | |
| O.18 | Support of at least one of these options is required (see tables A.32, A.33, and A.34 for other options in this set). | | | | |

Comments:

A.7.5 PDU parameters

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

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

Tables A.7 and A.8 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.7: Information elements in all messages received by the user

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

Table A.8: Information elements in all messages transmitted by the user

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

Table A.9 covers those information elements defined by ITU-T Recommendation Q.931 [5], the use of which is not permitted by ETS 300 403-1 [1].

Table A.9: Information elements not permitted by ETS 300 403-1 [1]

| Item | Information element | Conditions for status | Status | Reference | Support |
|-----------|---------------------|-----------------------|--------|-------------|--|
| Mn-IE21 | Repeat indicator | | X | 3.3, 4.5.24 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Mn-IE26 | Signal | | X | 4.5.28 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Comments: | | | | | |

Table A.10 covers those information elements defined by ITU-T Recommendation Q.931 [5], the use of which is outside the scope of ETS 300 403-1 [1].

Table A.10: Information elements outside the scope of ETS 300 403-1 [1]

| Item | Information element | Conditions for status | Status | Reference | Support |
|-----------|--|-----------------------|--------|-------------|--|
| Mn-IE17 | More data | | I | 3.3, 4.5.20 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Mn-IE10 | Congestion level | | I | 3.3, 4.5.14 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Mn-IE32 | Information rate | | I | 3.2, 4.6 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Mn-IE33 | End-to-end transit delay | | I | 3.2, 4.6 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Mn-IE34 | Transit delay selection and indication | | I | 3.2, 4.6 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Mn-IE35 | Packet layer binary parameters | | I | 3.2, 4.6 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Mn-IE36 | Packet layer window size | | I | 3.2, 4.6 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Mn-IE37 | Packet size | | I | 3.2, 4.6 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Mn-IE38 | Closed user group | | I | 3.2, 4.6 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Mn-IE39 | Reverse charge indication | | I | 3.2, 4.6 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Mn-IE40 | Redirecting number | | I | 3.2, 4.6 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Mn-IE28 | User-user | | I | 3.3, 4.5.30 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Comments: | | | | | |

A.7.5.1 Information elements in messages received by the user

Indicating support for an item in the tables in this clause states that the implementation has the ability to process the 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.11: Information elements in ALERTING received by the user

| Item | Information element | Conditions for status | Status | Reference | Support |
|---|--------------------------|---|----------|---------------------------------|------------------------|
| MRu1-IE1 | Bearer capability | MRu 1 AND MCu 21.1 NOT MRu 1 OR NOT MCu 21.1 | M N/A | 3.1.1, 5.11.1 | []Yes []No []N/A |
| MRu1-IE9 | Channel identification | | N/A | 3.1.1, 5.1.2 | N/A |
| MRu1-IE20 | Progress indicator | MRu 1 NOT MRu 1 | M N/A | 3.1.1, 5.1.6, 5.11.1, 5.12.1 | []Yes []No []N/A |
| MRu1-IE12 | Display (T) (note) | MRu 1 NOT MRu 1 | O N/A | 3.1.1 | []Yes []No []N/A |
| MRu1-IE14 | High layer compatibility | MRu 1 AND MCu 22.1 NOT MRu 1 OR NOT MCu 22.1 | M N/A | 3.1.1, 5.12.1 | []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 ETS 300 403-1 [1]. | | | | | |
| Comments: | | | | | |

Table A.12: Information elements in CALL PROCEEDING received by the user

| Item | Information element | Conditions for status | Status | Reference | Support |
|---|--------------------------|---|----------|---------------------------------|------------------------|
| MRu2-IE1 | Bearer capability | MRu 2 AND MCu 21.1 NOT MRu 2 OR NOT MCu 21.1 | M N/A | 3.1.2, 5.11.1 | []Yes []No []N/A |
| MRu2-IE9 | Channel identification | MRu 2 NOT MRu 2 | M N/A | 3.1.2, 5.1.2 | []Yes []No []N/A |
| MRu2-IE20 | Progress indicator | MRu 2 NOT MRu 2 | M N/A | 3.1.2, 5.1.6, 5.11.1, 5.12.1 | []Yes []No []N/A |
| MRu2-IE12 | Display (T) (note) | MRu 2 NOT MRu 2 | O N/A | 3.1.2 | []Yes []No []N/A |
| MRu2-IE14 | High layer compatibility | MRu 2 AND MCu 22.1 NOT MRu 2 OR NOT MCu 22.1 | M N/A | 3.1.2, 5.12.1 | []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 ETS 300 403-1 [1]. | | | | | |
| Comments: | | | | | |

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

| Item | Information element | Conditions for status | Status | Reference | Support |
|---|--------------------------|---|----------|---------------------------------|------------------------|
| MRu4-IE1 | Bearer capability | MRu 4 AND MCu 21.1 NOT MRu 4 OR NOT MCu 21.1 | M N/A | 3.1.3, 5.11.1 | []Yes []No []N/A |
| MRu4-IE9 | Channel identification | | N/A | 3.1.3, 5.1.2 | N/A |
| MRu4-IE20 | Progress indicator | MRu 4 NOT MRu 4 | M N/A | 3.1.3, 5.1.6, 5.11.1, 5.12.1 | []Yes []No []N/A |
| MRu4-IE12 | Display (T) (note) | MRu 4 NOT MRu 4 | O N/A | 3.1.3 | []Yes []No []N/A |
| MRu4-IE11 | Date/time (T) | | I | 3.1.3 | []Yes []No []N/A |
| MRu4-IE16 | Low layer compatibility | MRu 4 AND MCu10.1 NOT MRu 4 OR NOT MCu 10.1 | M N/A | 3.1.3, annex J | []Yes []No []N/A |
| MRu4-IE14 | High layer compatibility | MRu 4 AND MCu 22.1 NOT MRu 4 OR NOT MCu 22.1 | M N/A | 3.1.3, 5.12.1 | []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 ETS 300 403-1 [1]. | | | | | |
| Comments: | | | | | |

Table A.14: 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 | 3.1.4 | []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 ETS 300 403-1 [1]. | | | | | |
| Comments: | | | | | |

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

| Item | Information element | Conditions for status | Status | Reference | Support |
|---|---------------------|------------------------|--------|----------------|--------------|
| MRu6-IE8 | Cause (T) | | I | 3.1.5, 5.3.4 | []Yes []No |
| MRu6-IE20 | Progress indicator | MCu 4.1 NOT MCu 4.1 | M O | 3.1.5, 5.3.4.1 | []Yes []No |
| MRu6-IE12 | Display (T) (note) | | O | 3.1.5 | []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 ETS 300 403-1 [1]. | | | | | |
| Comments: | | | | | |

Table A.16: 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 | 3.1.6, 5.2.4 | []Yes []No []N/A |
| MRu8-IE8 | Cause (T) | | I | 3.1.6 | []Yes []No []N/A |
| MRu8-IE12 | Display (T) (note 1) | MRu 8 NOT MRu 8 | O N/A | 3.1.6 | []Yes []No []N/A |
| MRu8-IE15 | Keypad facility (T) (note 2) | MRu 8 NOT MRu 8 | O N/A | 3.1.6 | []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 | 3.1.6, 5.2.4 | []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 ETS 300 403-1 [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.17: Information elements in NOTIFY received by the user

| Item | Information element | Conditions for status | Status | Reference | Support |
|---|------------------------|-----------------------|--------|-----------------------------|--------------|
| MRu9-IE19 | Notification indicator | | M | 3.1.7, 5.6.2, 5.6.4, 5.9 | []Yes []No |
| MRu9-IE12 | Display (T) (note) | | O | 3.1.7 | []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 ETS 300 403-1 [1]. | | | | | |
| Comments: | | | | | |

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

| Item | Information element | Conditions for status | Status | Reference | Support |
|---|--------------------------|--------------------------|----------|---|------------------------|
| MRu10-IE1 | Bearer capability | MCu 21.1 NOT MCu 21.1 | M N/A | 3.1.8, 5.11.1 | []Yes []No []N/A |
| MRu10-IE8 | Cause (T) | | I | 3.1.8 | []Yes []No |
| MRu10-IE20 | Progress indicator | | M | 3.1.8, 5.1.6, 5.2.6, 5.11.1, 5.12.1 | []Yes []No |
| MRu10-IE12 | Display (T) (note) | | O | 3.1.8 | []Yes []No |
| MRu10-IE14 | High layer compatibility | MCu 22.1 NOT MCu 22.1 | M N/A | 3.1.8, 5.12.1 | []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 ETS 300 403-1 [1]. | | | | | |
| Comments: | | | | | |

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

| Item | Information element | Conditions for status | Status | Reference | Support |
|---|---------------------|-----------------------|--------|------------|--------------|
| MRu11-IE8 | Cause (T) | | I | 3.1.9, 5.3 | []Yes []No |
| MRu11-IE12 | Display (T) (note) | | O | 3.1.9 | []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 ETS 300 403-1 [1]. | | | | | |
| Comments: | | | | | |

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

| Item | Information element | Conditions for status | Status | Reference | Support |
|---|---------------------|-----------------------|--------|-------------|--------------|
| MRu12-IE8 | Cause (T) | | I | 3.1.10, 5.3 | []Yes []No |
| MRu12-IE12 | Display (T) (note) | | O | 3.1.10 | []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 ETS 300 403-1 [1]. | | | | | |
| Comments: | | | | | |

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

| Item | Information element | Conditions for status | Status | Reference | Support |
|---|------------------------|-----------------------|----------|--------------|------------------------|
| MRu13-IE9 | Channel identification | MRu 13 NOT MRu 13 | M N/A | 3.4.1, 5.5.2 | []Yes []No []N/A |
| MRu13-IE12 | Display (T) (note) | MRu 13 NOT MRu 13 | O N/A | 3.4.1 | []Yes []No []N/A |
| MRu13-IE22 | Restart indicator | MRu 13 NOT MRu 13 | M N/A | 3.4.1, 5.5.2 | []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 ETS 300 403-1 [1]. | | | | | |
| Comments: | | | | | |

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

| Item | Information element | Conditions for status | Status | Reference | Support |
|---|------------------------|-----------------------|----------|--------------|------------------------|
| MRu14-IE9 | Channel identification | MRu 14 NOT MRu 14 | M N/A | 3.4.2, 5.5.1 | []Yes []No []N/A |
| MRu14-IE12 | Display (T) (note) | MRu 14 NOT MRu 14 | O N/A | 3.4.2 | []Yes []No []N/A |
| MRu14-IE22 | Restart indicator | MRu 14 NOT MRu 14 | M N/A | 3.4.2, 5.5.1 | []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 ETS 300 403-1 [1]. | | | | | |
| Comments: | | | | | |

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

| Item | Information element | Conditions for status | Status | Reference | Support |
|---|------------------------|-----------------------|----------|---------------|------------------------|
| MRu16-IE9 | Channel identification | MRu 16 NOT MRu 16 | M N/A | 3.1.12, 5.6.4 | []Yes []No []N/A |
| MRu16-IE12 | Display (T) (note) | MRu 16 NOT MRu 16 | O N/A | 3.1.12 | []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 ETS 300 403-1 [1]. | | | | | |
| Comments: | | | | | |

Table A.24: Information elements in RESUME REJECT received by the user

| Item | Information element | Conditions for status | Status | Reference | Support |
|---|---------------------|-----------------------|----------|---------------|------------------------|
| MRu17-IE8 | Cause (T) | | I | 3.1.13, 5.6.5 | []Yes []No []N/A |
| MRu17-IE12 | Display (T) (note) | MRu 17 NOT MRu 17 | O N/A | 3.1.13 | []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 ETS 300 403-1 [1]. | | | | | |
| Comments: | | | | | |

Table A.25: 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 | 3.5.1, annex H | []Yes []No []N/A |
| MRu18-IEx | "Segment" | MRu 18 NOT MRu 18 | M N/A | 3.5.1, annex H | []Yes []No []N/A |
| Comments: | | | | | |

Table A.26: 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 | 3.1.14, 5.1.1, 5.1.3 | []Yes []No []N/A |
| MRu19-IE1 | Bearer capability | MRu 19 NOT MRu 19 | M N/A | 3.1.14, 5.2.1, 5.11.2, annex B | []Yes []No []N/A |
| MRu19-IE9 | Channel identification | MRu 19 NOT MRu 19 | M N/A | 3.1.14, 5.3.2 | []Yes []No []N/A |
| MRu19-IE20 | Progress indicator | MRu 19 NOT MRu 19 | M N/A | 3.1.14, 5.2.6 | []Yes []No []N/A |
| MRu19-IE18 | Network specific facilities (T) | | I | 3.1.14, annex E | []Yes []No |
| MRu19-IE12 | Display (T) (note 1) | MRu 19 NOT MRu 19 | O N/A | 3.1.14, 5.2.1 | []Yes []No []N/A |
| MRu19-IE15 | Keypad facility (T) (note 2) | MRu 19 NOT MRu 19 | O N/A | 3.1.14 | []Yes []No []N/A |
| MRu19-IE6 | Calling party number | MRu 19 NOT MRu 19 | O N/A | 3.1.14 | []Yes []No []N/A |
| MRu19-IE7 | Calling party subaddress | MRu 19 NOT MRu 19 | O N/A | 3.1.14 | []Yes []No []N/A |
| MRu19-IE4 | Called party number | MRu 19 NOT MRu 19 | O N/A | 3.1.14, 5.2.1, 5.2.2, 5.2.3, 5.2.4, annex B | []Yes []No []N/A |
| MRu19-IE5 | Called party subaddress | MRu 19 NOT MRu 19 | O N/A | 3.1.14, annex B | []Yes []No []N/A |
| MRu19-IE27 | Transit network selection | | N/A | 3.1.14 | []Yes []No []N/A |
| MRu19-IE16 | Low layer compatibility | MRu 19 AND (MCu 10.2 OR SCu 6) NOT MRu 19 OR (NOT MCu 10.2 AND NOT SCu 6) | M N/A | 3.1.14, 5.2.1, annex I, annex J, annex B | []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 | 3.1.14, 5.2.1, 5.12.2, 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 ETS 300 403-1 [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.27: Information elements in SETUP ACKNOWLEDGE received by the user

| Item | Information element | Conditions for status | Status | Reference | Support |
|---|------------------------|-----------------------|----------|--|------------------------|
| MRu20-IE9 | Channel identification | MRu 20 NOT MRu 20 | M N/A | 3.1.15, 5.1.2 | []Yes []No []N/A |
| MRu20-IE20 | Progress indicator | MRu 20 NOT MRu 20 | M N/A | 3.1.15, 5.1.6, 5.11.1, 5.12.1, annex K | []Yes []No []N/A |
| MRu20-IE12 | Display (T) (note) | MRu 20 NOT MRu 20 | O N/A | 3.1.15 | []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 ETS 300 403-1 [1]. | | | | | |
| Comments: | | | | | |

Table A.28: 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 | 3.1.16, 3.4.3, 5.8.11 | []Yes []No |
| MRu21-IE3 | Call state | | M | 3.1.16, 3.4.3, 5.8.11 | []Yes []No |
| MRu21-IE12 | Display (T) (note 2) | | O | 3.1.16 | []Yes []No |
| NOTE 1: The receipt of this PDU parameter is only transparent when the IUT does not support the status enquiry procedure (clause 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 ETS 300 403-1 [1]. | | | | | |
| Comments: | | | | | |

Table A.29: Information elements in STATUS ENQUIRY received by the user

| Item | Information element | Conditions for status | Status | Reference | Support |
|---|---------------------|-----------------------|--------|----------------|--------------|
| MRu22-IE12 | Display (T) (note) | | O | 3.1.17, 5.8.10 | []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 ETS 300 403-1 [1]. | | | | | |
| Comments: | | | | | |

Table A.30: Information elements in SUSPEND ACKNOWLEDGE received by the user

| Item | Information element | Conditions for status | Status | Reference | Support |
|---|---------------------|-----------------------|----------|---------------|------------------------|
| MRu24-IE12 | Display (T) (note) | MRu 24 NOT MRu 24 | O N/A | 3.1.19, 5.6.2 | []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 ETS 300 403-1 [1]. | | | | | |
| Comments: | | | | | |

Table A.31: Information elements in SUSPEND REJECT received by the user

| Item | Information element | Conditions for status | Status | Reference | Support |
|---|---------------------|-----------------------|----------|---------------|------------------------|
| MRu25-IE8 | Cause (T) | | I | 3.1.20, 5.6.3 | []Yes []No []N/A |
| MRu25-IE12 | Display (T) (note) | MRu 25 NOT MRu 25 | O N/A | 3.1.20 | []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 ETS 300 403-1 [1]. | | | | | |
| Comments: | | | | | |

A.7.5.2 Information elements in messages transmitted by the user

Indicating support for an item in the tables in this clause states that the implementation has the ability to generate, and to transmit in the specified message, the 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.32: Information elements in ALERTING transmitted by the user

| Item | Information element | Conditions for status | Status | Reference | Support |
|-------------|--|---|--------------------------|-----------------------|------------------------|
| MTu1-IE1 | Bearer capability | MTu 1 AND MCu 21.2 AND R 3.2 MTu 1 AND MCu 21.2 AND NOT R 3.2 NOT MTu 1 OR NOT MCu 21.2 | O.17 X N/A | 3.1.1, 5.11.2, 5.11.3 | []Yes []No []N/A |
| MTu1-IE9 | Channel identification | MTu 1 AND MCu 2.4 MTu 1 AND NOT MCu 2.4 NOT MTu 1 | M O N/A | 3.1.1, 5.2.3 | []Yes []No []N/A |
| MTu1-IE20.1 | Progress indicator, indicating that fallback to an alternative bearer capability occurs | MTu1-IE1 NOT MTu1-IE1 | M N/A | 3.1.1, 5.11.2, 5.11.3 | []Yes []No []N/A |
| MTu1-IE20.2 | Progress indicator, indicating that fallback to an alternative high layer compatibility occurs | MTu1-IE14 NOT MTu1-IE14 | M N/A | 3.1.1, 5.12.2, 5.12.3 | []Yes []No []N/A |
| MTu1-IE20.3 | Progress indicator, indicating that in-band information is available | MTu 1 AND TIu 3 NOT MTu 1 OR NOT TIu 3 | M N/A | 3.1.1, 5.2.6, annex K | []Yes []No []N/A |
| MTu1-IE20.4 | Progress indicator, indicating interworking | MTu 1 AND MCu 2.6 NOT MTu 1 OR NOT MCu 2.6 | M N/A | 3.1.1, 5.2.6 | []Yes []No []N/A |
| MTu1-IE12 | Display | MTu 1 NOT MTu 1 | X N/A | 3.1.1 | []Yes []No []N/A |
| MTu1-IE14 | High layer compatibility | MTu 1 AND MCu 22.2 AND R 3.2 MTu 1 AND MCu 22.2 AND NOT R 3.2 NOT MTu 1 OR NOT MCu 22.2 | O.18 X N/A | 3.1.1, 5.12.2, 5.12.3 | []Yes []No []N/A |
| O.17 | Support of at least one of these options is required (see tables A.6, A.33, and A.34 for other options in this set). | | | | |
| O.18 | Support of at least one of these options is required (see tables A.6, A.33, and A.34 for other options in this set). | | | | |
| Comments: | | | | | |

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

| Item | Information element | Conditions for status | Status | Reference | Support |
|-------------|--|---|--------------------------|-----------------------|------------------------|
| MTu2-IE1 | Bearer capability | MTu 2 AND MCu 21.2 AND R 3.2 MTu 2 AND MCu 21.2 AND NOT R 3.2 NOT MTu 2 OR NOT MCu 21.2 | O.17 X N/A | 3.1.2, 5.11.2, 5.11.3 | []Yes []No []N/A |
| MTu2-IE9 | Channel identification | MTu 2 AND MCu 2.4 MTu 2 AND NOT MCu 2.4 NOT MTu 2 | M O N/A | 3.1.2, 5.2.3 | []Yes []No []N/A |
| MTu2-IE20.1 | Progress indicator, indicating that fallback to an alternative bearer capability occurs | MTu2-IE1 NOT MTu2-IE1 | M N/A | 3.1.2, 5.11.2, 5.11.3 | []Yes []No []N/A |
| MTu2-IE20.2 | Progress indicator, indicating that fallback to an alternative high layer compatibility occurs | MTu2-IE14 NOT MTu2-IE14 | M N/A | 3.1.2, 5.12.2, 5.12.3 | []Yes []No []N/A |
| MTu2-IE20.3 | Progress indicator, indicating that in-band information is available | MTu 2 AND TIu 3 NOT MTu 2 OR NOT TIu 3 | M N/A | 3.1.2, 5.2.6, annex K | []Yes []No []N/A |
| MTu2-IE20.4 | Progress indicator, indicating interworking | MTu 2 AND MCu 2.6 NOT MTu 2 OR NOT MCu 2.6 | M N/A | 3.1.2, 5.2.6 | []Yes []No []N/A |
| MTu2-IE12 | Display | MTu 2 NOT MTu 2 | X N/A | 3.1.2 | []Yes []No []N/A |
| MTu2-IE14 | High layer compatibility | MTu 2 AND MCu 22.2 AND R 3.2 MTu 2 AND MCu 22.2 AND NOT R 3.2 NOT MTu 2 OR NOT MCu 22.2 | O.18 X N/A | 3.1.2, 5.12.2, 5.12.3 | []Yes []No []N/A |
| O.17 | Support of at least one of these options is required (see tables A.6, A.32, and A.34 for other options in this set). | | | | |
| O.18 | Support of at least one of these options is required (see tables A.6, A.32, and A.34 for other options in this set). | | | | |
| Comments: | | | | | |

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

| Item | Information element | Conditions for status | Status | Reference | Support |
|-------------|--|--|---------------|--------------------------|------------------------|
| MTu4-IE1.1 | Bearer capability, selected by the terminal | MTu 4 AND MCu 21.2 NOT MTu 4 OR NOT MCu 21.2 | M N/A | 3.1.3, 5.11.2, 5.11.3 | []Yes []No []N/A |
| MTu4-IE1.2 | Bearer capability, indicating that fallback occurs within the private ISDN | MTu 4 AND MCu 21.2 AND R 3.2 NOT MTu 4 OR NOT MCu 21.2 OR NOT R 3.2 | O.17 N/A | 3.1.3, 5.11.3 | []Yes []No []N/A |
| MTu4-IE9 | Channel identification | MTu 4 AND MCu 2.4 MTu 4 AND NOT MCu 2.4 NOT MTu 4 | M O N/A | 3.1.3, 5.2.3 | []Yes []No []N/A |
| MTu4-IE20.1 | Progress indicator, indicating that fallback to an alternative bearer capability occurs within the private ISDN | MTu4-IE1.2 NOT MTu4-IE1.2 | M N/A | 3.1.3, 5.11.3 | []Yes []No []N/A |
| MTu4-IE20.2 | Progress indicator, indicating that fallback to an alternative high layer compatibility occurs within the private ISDN | MTu4-IE14.2 NOT MTu4- IE14.2 | M N/A | 3.1.3, 5.12.2, 5.12.3 | []Yes []No []N/A |
| MTu4-IE20.3 | Progress indicator, indicating that in-band information is available | MTu 4 AND Tlu 3 NOT MTu 4 OR NOT Tlu 3 | M N/A | 3.1.3, 5.2.6, annex K | []Yes []No []N/A |
| MTu4-IE20.4 | Progress indicator, indicating interworking | MTu 4 AND MCu 2.6 NOT MTu 4 OR NOT MCu 2.6 | M N/A | 3.1.3, 5.2.6 | []Yes []No []N/A |
| MTu4-IE12 | Display | MTu 4 NOT MTu 4 | X N/A | 3.1.3 | []Yes []No []N/A |
| MTu4-IE12 | Date/time | MTu 4 NOT MTu 4 | X N/A | 3.1.3 | []Yes []No []N/A |
| MTu4-IE12 | Low layer compatibility | MTu 4 AND MCu 10.2 NOT MTu 4 OR NOT MCu 10.2 | M N/A | 3.1.3 | []Yes []No []N/A |
| MTu4-IE14.1 | High layer compatibility, selected by the terminal | MTu 4 AND MCu 22.2 NOT MTu 4 OR NOT MCu 22.2 | M N/A | 3.1.3, 5.11.2, 5.11.3 | []Yes []No []N/A |
| MTu4-IE14.2 | High layer compatibility, indicating that fallback occurs within the private ISDN | MTu 4 AND MCu 22.2 AND R 3.2 NOT MTu 4 OR NOT MCu 22.2 OR NOT R 3.2 | O.18 N/A | 3.1.3, 5.11.3 | []Yes []No []N/A |
| O.17 | Support of at least one of these options is required (see tables A.6, A.32, and A.33 for other options in this set). | | | | |
| O.18 | Support of at least one of these options is required (see tables A.6, A.32, and A.33 for other options in this set). | | | | |
| Comments: | | | | | |

Table A.35: 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 | 3.1.4 | []Yes []No []N/A |
| Comments: | | | | | |

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

| Item | Information element | Conditions for status | Status | Reference | Support |
|-----------|---------------------|-----------------------|--------|--------------|--------------|
| MTu6-IE8 | Cause | | M | 3.1.5, 5.3.3 | []Yes []No |
| MTu6-IE20 | Progress indicator | | X | 3.1.5 | []Yes []No |
| MTu6-IE12 | Display | | X | 3.1.5 | []Yes []No |
| Comments: | | | | | |

Table A.37: 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 | 3.1.6, 5.1.1, 5.1.3 | []Yes []No []N/A |
| MTu8-IE8 | Cause | MTu 8 NOT MTu 8 | X N/A | 3.1.6 | []Yes []No []N/A |
| MTu8-IE12 | Display | MTu 8 NOT MTu 8 | X N/A | 3.1.6 | []Yes []No []N/A |
| MTu8-IE15 | Keypad facility | MTu 8 NOT MTu 8 | O N/A | 3.1.6, 5, 5.1.3 | []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 | 3.1.6, 5.1.1, 5.1.3 | []Yes []No []N/A |
| Comments: | | | | | |

Table A.38: 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 | 3.1.7, 5.9 | []Yes []No []N/A |
| MTu9-IE12 | Display | MTu 9 NOT MTu 9 | X N/A | 3.1.7 | []Yes []No []N/A |
| Comments: | | | | | |

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

| Item | Information element | Conditions for status | Status | Reference | Support |
|--------------|--|---|--------------|--------------------------|------------------------|
| MTu10-IE1 | Bearer capability | MTu 10.1 NOT MTu 10.1 | M N/A | 3.1.8, 5.11.2, 5.11.3 | []Yes []No []N/A |
| MTu10-IE8 | Cause | MTu 10.1 OR MTu 10.2 OR MTu 10.3 OR MTu 10.4 NOT MTu 10.1 AND NOT MTu 10.2 AND NOT MTu 10.3 AND NOT MTu 10.4 | O N/A | 3.1.8 | []Yes []No []N/A |
| MTu10-IE20.1 | Progress indicator, indicating that fallback to an alternative bearer capability occurs | MTu10-IE1 NOT MTu1-IE1 | M N/A | 3.1.1, 5.11.2, 5.11.3 | []Yes []No []N/A |
| MTu10-IE20.2 | Progress indicator, indicating that fallback to an alternative high layer compatibility occurs | MTu10-IE14 NOT MTu1-IE14 | M N/A | 3.1.1, 5.12.2, 5.12.3 | []Yes []No []N/A |
| MTu10-IE20.3 | Progress indicator, indicating that in-band information is available | MTu 10.3 NOT MTu 10.3 | M N/A | 3.1.1, 5.2.6, annex K | []Yes []No []N/A |
| MTu10-IE20.4 | Progress indicator, indicating interworking | MTu 10.4 NOT MTu 10.4 | M N/A | 3.1.1, 5.2.6 | []Yes []No []N/A |
| MTu10-IE12 | Display | MTu 10.1 OR MTu 10.2 OR MTu 10.3 OR MTu 10.4 NOT MTu 10.1 AND NOT MTu 10.2 AND NOT MTu 10.3 AND NOT MTu 10.4 | X N/A | 3.1.8 | []Yes []No []N/A |
| MTu10-IE14 | High layer compatibility | MTu 10.2 NOT MTu 10.2 | M N/A | 3.1.8, 5.12.2, 5.12.3 | []Yes []No []N/A |
| Comments: | | | | | |

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

| Item | Information element | Conditions for status | Status | Reference | Support |
|------------|---------------------|-----------------------|--------|-----------------|--|
| MTu11-IE8 | Cause | | M | 3.1.9, 5.3, 5.8 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| MTu11-IE12 | Display | | X | 3.1.9 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Comments: | | | | | |

Table A.41: Information elements in RELEASE COMPLETE transmitted by the user

| Item | Information element | Conditions for status | Status | Reference | Support |
|------------|---------------------|-----------------------|--------|------------------|--|
| MTu12-IE8 | Cause | | M | 3.1.10, 5.3, 5.8 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| MTu12-IE12 | Display | | X | 3.1.10 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Comments: | | | | | |

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

| Item | Information element | Conditions for status | Status | Reference | Support |
|------------|------------------------|--------------------------|----------|--------------|--|
| MTu13-IE9 | Channel identification | MTu 13 AND SCu 125.1 | M | 3.4.1, 5.5.1 | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| | | MTu 13 AND NOT SCu 125.1 | X | | |
| | | NOT MTu 13 | N/A | | |
| MTu13-IE12 | Display | MTu 13 | X | 3.4.1 | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| | | NOT MTu 13 | N/A | | |
| MTu13-IE22 | Restart indicator | MTu 13 NOT MTu 13 | M N/A | 3.4.1, 5.5.1 | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| Comments: | | | | | |

Table A.43: Information elements in RESTART ACKNOWLEDGE transmitted by the user

| Item | Information element | Conditions for status | Status | Reference | Support |
|------------|------------------------|-----------------------|----------|--------------|--|
| MTu14-IE9 | Channel identification | MTu 14 | M | 3.4.2, 5.5.2 | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| | | NOT MTu 14 | N/A | | |
| MTu14-IE12 | Display | MTu 14 | X | 3.4.2 | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| | | NOT MTu 14 | N/A | | |
| MTu14-IE22 | Restart indicator | MTu 14 NOT MTu 14 | M N/A | 3.4.2, 5.5.2 | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| Comments: | | | | | |

Table A.44: Information elements in RESUME transmitted by the user

| Item | Information element | Conditions for status | Status | Reference | Support |
|---|---------------------|-----------------------|-------------|-------------------------|------------------------|
| MTu15-IE2 | Call identity | MTu 15 NOT MTu 15 | O.19 N/A | 3.1.11, 5.6.4, 5.6.5 | []Yes []No []N/A |
| O.19 Support of all or none of these options is required (see table A.50 for the other option in this set). | | | | | |
| Comments: | | | | | |

Table A.45: 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 | 3.5.1, annex H | []Yes []No []N/A |
| MTu18-IEx | "Segment" | MTu 18 NOT MTu 18 | M N/A | 3.5.1, annex H | []Yes []No []N/A |
| Comments: | | | | | |

Table A.46: 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 | 3.1.14, 5.1.1, 5.1.3 | []Yes []No []N/A |
| MTu19-IE1 | Bearer capability | MTu 19 NOT MTu 19 | M N/A | 3.1.14, 5.1.1, 5.1.1.1, annex B | []Yes []No []N/A |
| MTu19-IE9 | Channel identification | MTu 19 NOT MTu 19 | O N/A | 3.1.14. 5.1.2 | []Yes []No []N/A |
| MTu19-IE20 | Progress indicator | MTu 19 AND MCu 1.3 NOT MTu 19 OR NOT MCu 1.3 | M N/A | 3.1.14, 5.1.6 | []Yes []No []N/A |
| MTu19-IE18 | Network specific facilities | MTu 19 AND MCu 9 NOT MTu 19 OR NOT MCu 9 | M N/A | 3.1.14, annex E | []Yes []No []N/A |
| MTu19-IE12 | Display | MTu 19 NOT MTu 19 | X N/A | 3.1.14 | []Yes []No []N/A |
| MTu19-IE15 | Keypad facility | MTu 19 NOT MTu 19 | O N/A | 3.1.14, 5.1.3 | []Yes []No []N/A |
| MTu19-IE6 | Calling party number | | O N/A | 3.1.14 | []Yes []No []N/A |
| MTu19-IE7 | Calling party subaddress | | O N/A | 3.1.14 | []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 | 3.1.14, 5.1.1, 5.1.3 | []Yes []No []N/A |
| MTu19-IE5 | Called party subaddress | MTu 19 NOT MTu 19 | O N/A | 3.1.14, 5.1.1, 5.1.3 | []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 | 3.1.14, 5.1.10, annex C | []Yes []No []N/A |
| MTu19-IE16 | Low layer compatibility | MTu 19 AND MCu 10.1 MTu 19 AND NOT MCu 10.1 NOT MTu 19 | M O N/A | 3.1.14, annex I, annex J, annex B | []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 | 3.1.14, 5.12.1, annex B | []Yes []No []N/A |
| Comments: | | | | | |

Table A.47: Information elements in SETUP ACKNOWLEDGE transmitted by the user

| Item | Information element | Conditions for status | Status | Reference | Support |
|--------------|--|--|---------------|-----------------------|------------------------|
| MTu20-IE9 | Channel identification | MTu 20 AND MCu 2.4 MTu 20 AND NOT MCu 2.4 NOT MTu 20 | M O N/A | 3.1.15, 5.2.3 | []Yes []No []N/A |
| MTu20-IE20.1 | Progress indicator, indicating that in-band information is available | MTu 20 AND Tlu 3 NOT MTu 20 OR NOT Tlu 3 | M N/A | 3.1.1, 5.2.6, annex K | []Yes []No []N/A |
| MTu20-IE20.2 | Progress indicator, indicating interworking | MTu 20 AND MCu 2.6 NOT MTu 20 OR NOT MCu 2.6 | M N/A | 3.1.1, 5.2.6 | []Yes []No []N/A |
| MTu20-IE12 | Display | MTu 20 NOT MTu 20 | X N/A | | []Yes []No []N/A |
| Comments: | | | | | |

Table A.48: Information elements in STATUS transmitted by the user

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

Table A.49: 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 | | []Yes []No []N/A |
| Comments: | | | | | |

Table A.50: Information elements in SUSPEND transmitted by the user

| Item | Information element | Conditions for status | Status | Reference | Support |
|---|---------------------|-----------------------|-------------|-----------|------------------------|
| MTu23-IE2 | Call identity | MTu 23 NOT MTu 23 | O.19 N/A | | []Yes []No []N/A |
| O.19 Support of all or none of these options is required (see table A.50 for the other option in this set). | | | | | |
| Comments: | | | | | |

A.7.6 Timers

Indicating support for an item in table A.51 states that the implementation has a timer that operates in accordance with the description in clause 9 of ITU-T Recommendation Q.931 [5] as modified by ETS 300 403-1 [1] and with the relevant behaviour specified in clause 5 of ITU-T Recommendation Q.931 [5] as modified by ETS 300 403-1 [1].

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

Table A.51: 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 | Note 6 of Table 9.2 | []Yes []No | N/A | N/A |
| TMu 2 | T302 | MCu 2.2 NOT MCu 2.2 | M N/A | Table 9.2 | []Yes []No []N/A | 15 s | |
| TMu 3 | T303 | MCu 1 NOT MCu 1 | O N/A | Table 9.2 | []Yes []No []N/A | 4 s | |
| TMu 4 | T304 | MCu 1.2 NOT MCu 1.2 | O N/A | Table 9.2 | []Yes []No []N/A | 30 s | |
| TMu 5 | T305 | | M | Table 9.2 | []Yes []No | 30 s | |
| TMu 8 | T308 | | M | Table 9.2 | []Yes []No | 4 s | |
| TMu 9 | T309 | | O | Table 9.2 | []Yes []No | 6 - 12 s (note) | |
| TMu 10 | T310 | MCu 1 NOT MCu 1 | O N/A | Table 9.2 | []Yes []No []N/A | 30 - 100 s | |
| TMu 12 | T313 | MCu 2 NOT MCu 2 | M N/A | Table 9.2 | []Yes []No []N/A | 4 s | |
| TMu 13 | T314 | MCu 13 NOT MCu 13 | M N/A | Table 9.2 | []Yes []No []N/A | 4 s | |
| TMu 14 | T316 | MCu 5.2 NOT MCu 5.2 | M N/A | Table 9.2 | []Yes []No []N/A | 120 s | |
| TMu 15 | T317 | MCu 5.1 NOT MCu 5.1 | M N/A | Table 9.2 | []Yes []No []N/A | < T316 | |
| TMu 16 | T318 | MCu 6 NOT MCu 6 | M N/A | Table 9.2 | []Yes []No []N/A | 4 s | |
| TMu 17 | T319 | MCu 6 NOT MCu 6 | M N/A | Table 9.2 | []Yes []No []N/A | 4 s | |
| TMu 18 | T321 | | I | Note 6 of Table 9.2 | []Yes []No | N/A | N/A |
| TMu 19 | T322 | MCu 7.2 NOT MCu 7.2 | M N/A | Table 9.2 | []Yes []No []N/A | 4 s | |

NOTE: The value of T309 is calculated according to the formula: $T309 = (N200 + 1) * T200 + 2 \text{ s}$.

Comments:

A.7.7 Compatibility information elements structure

The following tables concern the Bearer Capability, the Low Layer Compatibility and the High Layer Compatibility information elements. These tables shall be completed in order to evaluate the chance of interoperability of two implementations.

Table A.52: 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. ITU-T standardized coding | M | 0 | []Yes []No |
| | 2. ISO/IEC standard | N/A | 1 | |
| | 3. National standard | N/A | 2 | |
| | 4. Network specific standard | N/A | 3 | |
| ISu 1.2 | Octet 3 bits 1 to 5, information transfer capability | M | | []Yes []No |
| | 1. Speech | O | 0 | []Yes []No |
| | 2. Unrestricted digital | O | 8 | []Yes []No |
| | 3. Restricted digital | N/A | 9 | |
| | 4. 3,1 kHz audio | O | 16 | []Yes []No |
| | 5. Unrestricted digital information with tones/announcements | O | 17 | []Yes []No |
| | 6. Video | N/A | 24 | []Yes []No |
| ISu 1.3 | Octet 4 bits 6 and 7, transfer mode | M | | []Yes []No |
| | 1. Circuit | O | 0 | []Yes []No |
| | 2. Packet | N/A | 2 | []Yes []No |
| ISu 1.4 | Octet 4 bits 1 to 5, information transfer rate | M | | []Yes []No |
| | 1. 64 kbit/s | O | 16 | []Yes []No |
| | 2. 2 x 64 kbit/s | N/A | 17 | []Yes []No |
| | 3. 384 kbit/s | N/A | 19 | []Yes []No |
| | 4. 1 536 kbit/s | N/A | 21 | []Yes []No |
| | 5. 1 920 kbit/s | N/A | 23 | []Yes []No |
| | 6. Multirate | O | 24 | []Yes []No |
| ISu 1.9 | Octet 4.1 Rate multiplier | O | 2 up to the maximum number of B-channels | Values: |
| ISu 1.10 | Octet 5 bits 1 to 5, user information layer 1 protocol | O | | []Yes []No |
| | 1. V.110/X.30 | O | 1 | []Yes []No |
| | 2. G.711 μ -law | N/A | 2 | |
| | 3. G.711 A-law | O | 3 | []Yes []No |
| | 4. G.721 32 kbit/s ADPCM and I.460 | O | 4 | []Yes []No |
| | 5. G.722 and G.725 7 kHz audio | O | 5 | []Yes []No |
| | 7. Non-ITU-T rate adaption | O | 7 | []Yes []No |
| | 8. V.120 | N/A | 8 | |
| | 9. X.31 HDLC | O | 9 | []Yes []No |
| ISu 1.11 | Octet 5a bit 7, synchronous/asynchronous | O | | []Yes []No |
| | 1. Synchronous | O | 0 | []Yes []No |
| | 2. Asynchronous | O | 1 | []Yes []No |
| ISu 1.12 | Octet 5a bit 6, negotiation indicator | O | | []Yes []No |
| | 1. In-band negotiation not possible | O | 0 | []Yes []No |
| | 2. In-band negotiation possible | O | 1 | []Yes []No |
| ISu 1.13 | Octet 5a bits 1 to 5, user rate | O | | []Yes []No |
| | 1. Rate indicated by E bits (I.460) | O | 0 | []Yes []No |
| | 2. 0,6 kbit/s ITU-T V.6 and X.1 | O | 1 | []Yes []No |
| | 3. 1,2 kbit/s ITU-T V.6 | O | 2 | []Yes []No |
| | 4. 2,4 kbit/s ITU-T V.6 and X.1 | O | 3 | []Yes []No |
| | 5. 3,6 kbit/s ITU-T V.6 | O | 4 | []Yes []No |

| Item | Information element field | Status | Values | Support |
|----------|---|--------|--------|--------------|
| | 6. 4,8 kbit/s ITU-T V.6 and X.1 | O | 5 | []Yes []No |
| | 7. 7,2 kbit/s ITU-T V.6 | O | 6 | []Yes []No |
| | 8. 8 kbit/s ITU-T I.460 | O | 7 | []Yes []No |
| | 9. 9,6 kbit/s ITU-T V.6 and X.1 | O | 8 | []Yes []No |
| | 10. 14,4 kbit/s ITU-T V.6 | O | 9 | []Yes []No |
| | 11. 16 kbit/s ITU-T I.460 | O | 10 | []Yes []No |
| | 12. 19,2 kbit/s ITU-T V.6 | O | 11 | []Yes []No |
| | 13. 32 kbit/s ITU-T I.460 | O | 12 | []Yes []No |
| | 14. 48 kbit/s ITU-T V.6 and X.1 | O | 14 | []Yes []No |
| | 15. 56 kbit/s ITU-T V.6 | O | 15 | []Yes []No |
| | 16. 64 kbit/s ITU-T X.1 | O | 16 | []Yes []No |
| | 17. 0,1345 kbit/s ITU-T X.1 | O | 21 | []Yes []No |
| | 18. 0,100 kbit/s ITU-T X.1 | O | 22 | []Yes []No |
| | 19. 0,075/1,2 kbit/s ITU-T V.6 and X.1 | O | 23 | []Yes []No |
| | 20. 1,2/0,075 kbit/s ITU-T V.6 and X.1 | O | 24 | []Yes []No |
| | 21. 0,050 kbit/s ITU-T V.6 and X.1 | O | 25 | []Yes []No |
| | 22. 0,075 kbit/s ITU-T V.6 and X.1 | O | 26 | []Yes []No |
| | 23. 0,110 kbit/s ITU-T V.6 and X.1 | O | 27 | []Yes []No |
| | 24. 0,150 kbit/s ITU-T V.6 and X.1 | O | 28 | []Yes []No |
| | 25. 0,200 kbit/s ITU-T V.6 and X.1 | O | 29 | []Yes []No |
| | 26. 0,300 kbit/s ITU-T V.6 and X.1 | O | 30 | []Yes []No |
| | 27. 12 kbit/s ITU-T V.6 | O | 31 | []Yes []No |
| | Octet 5b, for V.110/X.30 rate adaption | | | |
| ISu 1.14 | Octet 5b bits 6 and 7, intermediate rate | O | | []Yes []No |
| | 1. Not used | O | 0 | []Yes []No |
| | 2. 8 kbit/s | O | 1 | []Yes []No |
| | 3. 16 kbit/s | O | 2 | []Yes []No |
| | 4. 32 kbit/s | O | 3 | []Yes []No |
| ISu 1.15 | Octet 5b bit 5, network independent clock (NIC) on transmission | O | | []Yes []No |
| | 1. Not required to send data with NIC | O | 0 | []Yes []No |
| | 2. Required to send data with NIC | O | 1 | []Yes []No |
| ISu 1.16 | Octet 5b bit 4, NIC on reception | O | | []Yes []No |
| | 1. Cannot accept data with NIC | O | 0 | []Yes []No |
| | 2. Can accept data with NIC | O | 1 | []Yes []No |
| ISu 1.17 | Octet 5b bit 3, flow control on transmission | O | | []Yes []No |
| | 1. Not required to send data with flow control | O | 0 | []Yes []No |
| | 2. Required to send data with flow control | O | 1 | []Yes []No |
| ISu 1.18 | Octet 5b bit 2, flow control on reception | O | | []Yes []No |
| | 1. Cannot accept data with flow control mechanism | O | 0 | []Yes []No |
| | 2. Can accept data with flow control mechanism | O | 1 | []Yes []No |
| | Octet 5b, for V.120 rate adaption | N/A | | |
| ISu 1.25 | Octet 5c bits 6 and 7, number of stop bits? | O | | []Yes []No |
| | 1. Not used | O | 0 | []Yes []No |
| | 2. 1 bit | O | 1 | []Yes []No |
| | 3. 1,5 bits | O | 2 | []Yes []No |
| | 4. 2 bits | O | 3 | []Yes []No |
| ISu 1.26 | Octet 5c bits 4 and 5, number of data bits excluding parity | O | | []Yes []No |
| | 1. Not used | O | 0 | []Yes []No |
| | 2. 5 bits | O | 1 | []Yes []No |
| | 3. 7 bits | O | 2 | []Yes []No |
| | 4. 8 bits | O | 3 | []Yes []No |
| ISu 1.27 | Octet 5c bits 1 to 3, parity information | O | | []Yes []No |
| | 1. Odd | O | 0 | []Yes []No |
| | 2. Even | O | 2 | []Yes []No |
| | 3. None | O | 3 | []Yes []No |
| | 4. Forced to 0 | O | 4 | []Yes []No |
| | 5. Forced to 1 | O | 5 | []Yes []No |
| ISu 1.28 | Octet 5d bit 7, duplex mode | O | | []Yes []No |
| | 1. Half duplex | O | 0 | []Yes []No |
| | 2. Full duplex | O | 1 | []Yes []No |
| ISu 1.29 | Octet 5d bits 1 to 6, modem type | O | | []Yes []No |
| | 1. V.21 | O | 17 | []Yes []No |
| | 2. V.22 | O | 18 | []Yes []No |
| | 3. V.22 bis | O | 19 | []Yes []No |
| | 4. V.23 | O | 20 | []Yes []No |

| Item | Information element field | Status | Values | Support |
|-----------|--|--------|--------|--------------|
| | 5. V.26 | O | 21 | []Yes []No |
| | 6. V.26 bis | O | 22 | []Yes []No |
| | 7. V.26 ter | O | 23 | []Yes []No |
| | 8. V.27 | O | 24 | []Yes []No |
| | 9. V.27 bis | O | 25 | []Yes []No |
| | 10. V.27 ter | O | 26 | []Yes []No |
| | 11. V.29 | O | 27 | []Yes []No |
| | 12. V.32 | O | 28 | []Yes []No |
| ISu 1.30 | Octet 6 bits 1 to 5, user information layer 2 protocol | O | | []Yes []No |
| | 1. Q.921 | O | 2 | []Yes []No |
| | 2. X.25 link level | O | 6 | []Yes []No |
| ISu 1.31 | Octet 7 bits 1 to 5, user information layer 3 protocol | O | | []Yes []No |
| | 1. Q.931 [5] | O | 2 | []Yes []No |
| | 2. X.25 packet layer | O | 6 | []Yes []No |
| Comments: | | | | |

Table A.53: High layer compatibility structure

| Item | Information element field | Status | Values | Support |
|-----------|---|--------|--------|--------------|
| ISu 3.1 | Octet 3 bits 6 and 7, coding standard | M | | []Yes []No |
| | 1. ITU-T standardized coding | O | 0 | []Yes []No |
| | 2. ISO/IEC standard | O | 1 | []Yes []No |
| | 3. National standard | O | 2 | []Yes []No |
| | 4. Network specific standard | O | 3 | []Yes []No |
| ISu 3.1a | Octet 3 bits 3 to 5, Interpretation | M | | []Yes []No |
| | 1. First high layer characteristics identification | M | 4 | []Yes []No |
| ISu 3.1b | Octet 3 bits 1 to 2, presentation method of protocol profile | M | | []Yes []No |
| | 1. High layer protocol profile | M | 1 | []Yes []No |
| ISu 3.2a | Octet 4 bits 1 to 7, high layer characteristics identification, ITU-T standardized coding | M | | []Yes []No |
| | 1. Telephony | O | 1 | []Yes []No |
| | 2. Fax group 2/3 (F.182) | O | 4 | []Yes []No |
| | 3. Fax group 4 class 1 (F.184) | O | 33 | []Yes []No |
| | 4. Teletex, basic and mixed mode (F.230), Fax group 4, classes II & III (F.184) | O | 36 | []Yes []No |
| | 5. Teletex, basic and processable mode (F.220) | O | 40 | []Yes []No |
| | 6. Teletex basic mode (F.200) | O | 49 | []Yes []No |
| | 7. Syntax-based videotex (F.300, T.102) | O | 50 | []Yes []No |
| | 8. International videotex interworking via gateways or interworking units (F.300, T.101) | O | 51 | []Yes []No |
| | 9. Telex (F.60) | O | 53 | []Yes []No |
| | 10. MHS (X.400) | O | 56 | []Yes []No |
| | 11. OSI application (X.200) | O | 65 | []Yes []No |
| | 12. FTAM application (ISO/IEC 8571) | O | 66 | []Yes []No |
| | 13. Videotelephony (F.721) | O | 96 | []Yes []No |
| | 14. Videoconferencing (F.731) | O | 97 | []Yes []No |
| /ISu 3.2b | Octet 4 bits 1 to 7, high layer characteristics identification, National standard coding | M | | []Yes []No |
| | 1. Eurofile transfer (ETS 300 075) | O | 65 | []Yes []No |
| ISu 3.3 | Octet 4 bits 1 to 7, extended high layer characteristics identification, National standard coding | O | | []Yes []No |
| | 1. Eurofile transfer (ETS 300 075) | O | 65 | []Yes []No |
| Comments: | | | | |

Table A.54: Low layer compatibility structure

| Item | Information element field | Status | Values | Support |
|-----------------------------|--|--------|--|--------------|
| ISu 4.1 | Octet 3 bits 6 and 7, coding standard | M | | []Yes []No |
| | 1. ITU-T standardized coding | O | 0 | []Yes []No |
| | 2. ISO/IEC standard | O | 1 | []Yes []No |
| | 3. National standard | O | 2 | []Yes []No |
| | 4. Network specific standard | O | 3 | []Yes []No |
| ISu 4.2 | Octet 3 bits 1 to 5, information transfer capability | M | | []Yes []No |
| | 1. Speech | O | 0 | []Yes []No |
| | 2. Unrestricted digital | O | 8 | []Yes []No |
| | 3. Restricted digital | O | 9 | []Yes []No |
| | 4. 3,1 kHz audio | O | 16 | []Yes []No |
| | 5. Unrestricted digital information with tones/announcements | O | 17 | []Yes []No |
| 6. Video | O | 24 | []Yes []No | |
| ISu 4.3 | Octet 3a bit 7, negotiation indicator | O | | []Yes []No |
| | 1. Outband negotiation not possible | O | 0 | []Yes []No |
| | 2. Outband negotiation possible | O | 1 | []Yes []No |
| ISu 4.4 | Octet 4 bits 6 and 7, transfer mode | M | | []Yes []No |
| | 1. Circuit | O | 0 | []Yes []No |
| | 2. Packet | O | 2 | []Yes []No |
| ISu 4.5 | Octet 4 bits 1 to 5, information transfer rate | M | | []Yes []No |
| | 1. 64 kbit/s | O | 16 | []Yes []No |
| | 2. 2 x 64 kbit/s | O | 17 | []Yes []No |
| | 3. 384 kbit/s | O | 19 | []Yes []No |
| | 4. 1 536 kbit/s | O | 21 | []Yes []No |
| | 5. 1 920 kbit/s | O | 23 | []Yes []No |
| 6. Multirate | O | 24 | []Yes []No | |
| ISu 4.10 | Octet 4.1 Rate multiplier | O | 2 up to the maximum number of B-channels | Values: |
| ISu 4.11 | Octet 5 bits 1 to 5, user information layer 1 protocol | O | | []Yes []No |
| | 1. V.110/X.30 | O | 1 | []Yes []No |
| | 2. G.711 μ -law | O | 2 | []Yes []No |
| | 3. G.711 A-law | O | 3 | []Yes []No |
| | 4. G.721 32 kbit/s ADPCM and I.460 | O | 4 | []Yes []No |
| | 5. G.722 and G.725 7kHz audio | O | 5 | []Yes []No |
| | 6. G.7xx 384 kbit/s video | O | 6 | []Yes []No |
| | 7. Non-ITU-T rate adaption | O | 7 | []Yes []No |
| | 8. V.120 | O | 8 | []Yes []No |
| 9. X.31 HDLC | O | 9 | []Yes []No | |
| ISu 4.12 | Octet 5a bit 7, synchronous/asynchronous | O | | []Yes []No |
| | 1. Synchronous | O | 0 | []Yes []No |
| | 2. Asynchronous | O | 1 | []Yes []No |
| ISu 4.13 | Octet 5a bit 6, negotiation indicator | O | | []Yes []No |
| | 1. In-band negotiation not possible | O | 0 | []Yes []No |
| | 2. In-band negotiation possible | O | 1 | []Yes []No |
| ISu 4.14 | Octet 5a bits 1 to 5, user rate | O | | []Yes []No |
| | 1. Rate indicated by E bits (I.460) | O | 0 | []Yes []No |
| | 2. 0,6 kbit/s ITU-T V.6 and X.1 | O | 1 | []Yes []No |
| | 3. 1,2 kbit/s ITU-T V.6 | O | 2 | []Yes []No |
| | 4. 2,4 kbit/s ITU-T V.6 and X.1 | O | 3 | []Yes []No |
| | 5. 3,6 kbit/s ITU-T V.6 | O | 4 | []Yes []No |
| | 6. 4,8 kbit/s ITU-T V.6 and X.1 | O | 5 | []Yes []No |
| | 7. 7,2 kbit/s ITU-T V.6 | O | 6 | []Yes []No |
| | 8. 8 kbit/s ITU-T I.460 | O | 7 | []Yes []No |
| | 9. 9,6 kbit/s ITU-T V.6 and X.1 | O | 8 | []Yes []No |
| | 10. 14,4 kbit/s ITU-T V.6 | O | 9 | []Yes []No |
| | 11. 16 kbit/s ITU-T I.460 | O | 10 | []Yes []No |
| | 12. 19,2 kbit/s ITU-T V.6 | O | 11 | []Yes []No |
| | 13. 32 kbit/s ITU-T I.460 | O | 12 | []Yes []No |
| | 14. 48 kbit/s ITU-T V.6 and X.1 | O | 14 | []Yes []No |
| | 15. 56 kbit/s ITU-T V.6 | O | 15 | []Yes []No |
| | 16. 64 kbit/s ITU-T X.1 | O | 16 | []Yes []No |
| 17. 0,1345 kbit/s ITU-T X.1 | O | 21 | []Yes []No | |

| Item | Information element field | Status | Values | Support |
|----------|---|--------|--------|--------------|
| | 18. 0,100 kbit/s ITU-T X.1 | O | 22 | []Yes []No |
| | 19. 0,075/1,2 kbit/s ITU-T V.6 and X.1 | O | 23 | []Yes []No |
| | 20. 1,2/0,075 kbit/s ITU-T V.6 and X.1 | O | 24 | []Yes []No |
| | 21. 0,050 kbit/s ITU-T V.6 and X.1 | O | 25 | []Yes []No |
| | 22. 0,075 kbit/s ITU-T V.6 and X.1 | O | 26 | []Yes []No |
| | 23. 0,110 kbit/s ITU-T V.6 and X.1 | O | 27 | []Yes []No |
| | 24. 0,150 kbit/s ITU-T V.6 and X.1 | O | 28 | []Yes []No |
| | 25. 0,200 kbit/s ITU-T V.6 and X.1 | O | 29 | []Yes []No |
| | 26. 0,300 kbit/s ITU-T V.6 and X.1 | O | 30 | []Yes []No |
| | 27. 12 kbit/s ITU-T V.6 | O | 31 | []Yes []No |
| | Octet 5b, for V.110/X.30 rate adaption | | | |
| ISu 4.15 | Octet 5b bits 6 and 7, intermediate rate | O | | []Yes []No |
| | 1. Not used | O | 0 | []Yes []No |
| | 2. 8 kbit/s | O | 1 | []Yes []No |
| | 3. 16 kbit/s | O | 2 | []Yes []No |
| | 4. 32 kbit/s | O | 3 | []Yes []No |
| ISu 4.16 | Octet 5b bit 5, network independent clock (NIC) on transmission | O | | []Yes []No |
| | 1. Not required to send data with NIC | O | 0 | []Yes []No |
| | 2. Required to send data with NIC | O | 1 | []Yes []No |
| ISu 4.17 | Octet 5b bit 4, NIC on reception | O | | []Yes []No |
| | 1. Cannot accept data with NIC | O | 0 | []Yes []No |
| | 2. Can accept data with NIC | O | 1 | []Yes []No |
| ISu 4.18 | Octet 5b bit 3, flow control on transmission | O | | []Yes []No |
| | 1. Not required to send data with flow control | O | 0 | []Yes []No |
| | 2. Required to send data with flow control | O | 1 | []Yes []No |
| ISu 4.19 | Octet 5b bit 2, flow control on reception | O | | []Yes []No |
| | 1. Cannot accept data with flow control mechanism | O | 0 | []Yes []No |
| | 2. Can accept data with flow control mechanism | O | 1 | []Yes []No |
| | Octet 5b, for V.120 rate adaption | | | |
| ISu 4.20 | Octet 5b bit 7, header | O | | []Yes []No |
| | 1. Header not included | O | 0 | []Yes []No |
| | 2. Header included | O | 1 | []Yes []No |
| ISu 4.21 | Octet 5b bit 6, multiple frame establishment (MFE) support in data link | O | | []Yes []No |
| | 1. MFE not supported, only UI frames allowed | O | 0 | []Yes []No |
| | 2. MFE supported | O | 1 | []Yes []No |
| ISu 4.22 | Octet 5b bit 5, mode of operation | O | | []Yes []No |
| | 1. Bit transparent mode | O | 0 | []Yes []No |
| | 2. Protocol sensitive mode | O | 1 | []Yes []No |
| ISu 4.23 | Octet 5b bit 4, logical link identifier (LLI) negotiation | O | | []Yes []No |
| | 1. Default LLI = 256 only | O | 0 | []Yes []No |
| | 2. Full protocol negotiation | O | 1 | []Yes []No |
| ISu 4.24 | Octet 5b bit 3, assignor/assignee | O | | []Yes []No |
| | 1. Message originator is "default assignee" | O | 0 | []Yes []No |
| | 2. Message originator is "assignor only" | O | 1 | []Yes []No |
| ISu 4.25 | Octet 5b bit 2, in-band/out-band negotiation | O | | []Yes []No |
| | 1. Negotiation performed with USER INFORMATION messages | O | 0 | []Yes []No |
| | 2. Negotiation performed in-band | O | 1 | []Yes []No |
| ISu 4.26 | Octet 5c bits 6 and 7, number of stop bits | O | | []Yes []No |
| | 1. Not used | O | 0 | []Yes []No |
| | 2. 1 bit | O | 1 | []Yes []No |
| | 3. 1,5 bits | O | 2 | []Yes []No |
| | 4. 2 bits | O | 3 | []Yes []No |
| ISu 4.27 | Octet 5c bits 4 and 5, number of data bits excluding parity | O | | []Yes []No |
| | 1. Not used | O | 0 | []Yes []No |
| | 2. 5 bits | O | 1 | []Yes []No |
| | 3. 7 bits | O | 2 | []Yes []No |
| | 4. 8 bits | O | 3 | []Yes []No |
| ISu 4.28 | Octet 5c bits 1 to 3, parity information | O | | []Yes []No |
| | 1. Odd | O | 0 | []Yes []No |
| | 2. Even | O | 2 | []Yes []No |
| | 3. None | O | 3 | []Yes []No |
| | 4. Forced to 0 | O | 4 | []Yes []No |

| Item | Information element field | Status | Values | Support |
|-----------|--|--------|--------|--------------|
| | 5. Forced to 1 | O | 5 | []Yes []No |
| ISu 4.29 | Octet 5d bit 7, duplex mode | O | | []Yes []No |
| | 1. Half duplex | O | 0 | []Yes []No |
| | 2. Full duplex | O | 1 | []Yes []No |
| ISu 4.30 | Octet 5d bits 1 to 6, modem type | O | | []Yes []No |
| | 1. V.21 | O | 17 | []Yes []No |
| | 2. V.22 | O | 18 | []Yes []No |
| | 3. V.22 bis | O | 19 | []Yes []No |
| | 4. V.23 | O | 20 | []Yes []No |
| | 5. V.26 | O | 21 | []Yes []No |
| | 6. V.26 bis | O | 22 | []Yes []No |
| | 7. V.26 ter | O | 23 | []Yes []No |
| | 8. V.27 | O | 24 | []Yes []No |
| | 9. V.27 bis | O | 25 | []Yes []No |
| | 10. V.27 ter | O | 26 | []Yes []No |
| | 11. V.29 | O | 27 | []Yes []No |
| | 12. V.32 | O | 28 | []Yes []No |
| ISu 4.31 | Octet 6 bits 1 to 5, user information layer 2 protocol | O | | []Yes []No |
| | 1. Basic mode ISO 1745 | O | 1 | []Yes []No |
| | 2. Q.921 | O | 2 | []Yes []No |
| | 3. X.25 link level | O | 6 | []Yes []No |
| | 4. X.25 multi-link | O | 7 | []Yes []No |
| | 5. Extended LAPB for half duplex (T.71) | O | 8 | []Yes []No |
| | 6. HDLC ARM (ISO 4335) | O | 9 | []Yes []No |
| | 7. HDLC NRM (ISO 4335) | O | 10 | []Yes []No |
| | 8. HDLC ABM (ISO 4335) | O | 11 | []Yes []No |
| | 9. LAN LLC ISO 8802/2 | O | 12 | []Yes []No |
| | 10. ITU-T X.75 single link procedure | O | 13 | []Yes []No |
| | 11. ITU-T Q.922 | O | 14 | []Yes []No |
| | 12. ITU-T Q.922 - core aspects | O | 15 | []Yes []No |
| | 13. User specified | O | 16 | []Yes []No |
| | 14. ISO 7776 DTE-DTE operation | O | 17 | []Yes []No |
| ISu 4.32 | Octet 7 bits 1 to 5, user information layer 3 protocol | O | | []Yes []No |
| | 1. Q.931 [5] | O | 2 | []Yes []No |
| | 2. X.25 packet layer | O | 6 | []Yes []No |
| | 3. ISO 8208 (X.25 for DTE) | O | 7 | []Yes []No |
| | 4. ISO 8348 (OSI connection oriented service) | O | 8 | []Yes []No |
| | 5. ISO 8473 (OSI connectionless service) | O | 9 | []Yes []No |
| | 6. ITU-T T.70 minimum network layer | O | 10 | []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.55: 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) 1. Unknown 2. International number 3. National number 4. Network specific number 5. Subscriber number 6. Abbreviated number | MRu 19-IE6 NOT MRu 19-IE6 | M N/A O O O O O X | 0 1 2 3 4 6 | []Yes []No []N/A []Yes []No []Yes []No []Yes []No []Yes []No []Yes []No []Yes []No |
| CGPru 1.2 | NPI (octet 3) 1. Unknown 2. ISDN/telephony numbering plan 3. Data numbering plan 4. Telex numbering plan 5. National standard numbering plan 6. Private numbering plan | MRu 19-IE6 NOT MRu 19-IE6 | M N/A O O O O O | 0 1 3 4 8 9 | []Yes []No []N/A []Yes []No []Yes []No []Yes []No []Yes []No []Yes []No |
| CGPru 1.3 | Presentation indicator (octet 3a) 1. Presentation allowed 2. Presentation restricted 3. Number not available due to interworking | MRu 19-IE6 NOT MRu 19-IE6 | O N/A O O O | 0 1 2 | []Yes []No []N/A []Yes []No []Yes []No []Yes []No |
| CGPru 1.4 | Screening indicator (octet 3a) 1. User-provided, not screened 2. User-provided, verified and passed 3. User-provided, verified and failed 4. Network provided | MRu 19-IE6 NOT MRu 19-IE6 | O N/A O O X O | 0 1 2 3 | []Yes []No []N/A []Yes []No []Yes []No []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.56: 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) 1. Unknown 2. International number 3. National number 4. Network specific number 5. Subscriber number 6. Abbreviated number | MTu 19-IE6 NOT MTu 19-IE6 | M N/A O O O O O X | 0 1 2 3 4 6 | []Yes []No []N/A []Yes []No []Yes []No []Yes []No []Yes []No []Yes []No []Yes []No |
| CGPtu 1.2 | NPI (octet 3) 1. Unknown 2. ISDN/telephony numbering plan 3. Data numbering plan 4. Telex numbering plan 5. National standard numbering plan 6. Private numbering plan | MTu 19-IE6 NOT MTu 19-IE6 | M N/A O O O O O O | 0 1 3 4 8 9 | []Yes []No []N/A []Yes []No []Yes []No []Yes []No []Yes []No []Yes []No []Yes []No |
| CGPtu 1.3 | Presentation indicator (octet 3a) 1. Presentation allowed 2. Presentation restricted 3. Number not available due to interworking | MTu 19-IE6 NOT MTu 19-IE6 | O N/A O O O | 0 1 2 | []Yes []No []N/A []Yes []No []Yes []No []Yes []No |
| CGPtu 1.4 | Screening indicator (octet 3a) 1. User-provided, not screened 2. User-provided, verified and passed 3. User-provided, verified and failed 4. Network provided | MTu 19-IE6 NOT MTu 19-IE6 | O N/A O O X O | 0 1 2 3 | []Yes []No []N/A []Yes []No []Yes []No []Yes []No []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.57: 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 | M | | []Yes []No |
| | | NOT MRu 19-IE4 | N/A | | []N/A |
| | 1. Unknown | | <input type="radio"/> | 0 | []Yes []No |
| | 2. International number | | <input type="radio"/> | 1 | []Yes []No |
| | 3. National number | | <input type="radio"/> | 2 | []Yes []No |
| | 4. Network specific number | | <input type="radio"/> | 3 | []Yes []No |
| | 5. Subscriber number | | <input type="radio"/> | 4 | []Yes []No |
| 6. Abbreviated number | | <input type="radio"/> | 6 | []Yes []No | |
| CDP1ru 1.2 | NPI (octet 3) | MRu 19-IE4 | M | | []Yes []No |
| | | NOT MRu 19-IE4 | N/A | | []N/A |
| | 1. Unknown | | <input type="radio"/> | 0 | []Yes []No |
| | 2. ISDN/telephony numbering plan | | <input type="radio"/> | 1 | []Yes []No |
| | 3. Data numbering plan | | <input type="radio"/> | 3 | []Yes []No |
| | 4. Telex numbering plan | | <input type="radio"/> | 4 | []Yes []No |
| | 5. National standard numbering plan | | <input type="radio"/> | 8 | []Yes []No |
| 6. Private numbering plan | | <input type="radio"/> | 9 | []Yes []No | |
| CDP1ru 1.3 | Number digits (octet 4 onwards) | MRu 19-IE4 | <input type="radio"/> | Up to 20 digits; | []Yes []No |
| | | NOT MRu 19-IE4 | N/A | max. value supported: | []N/A |
| Comments: | | | | | |

Table A.58: 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 | M | | []Yes []No |
| | | NOT MTu 19-IE4 | N/A | | []N/A |
| | 1. Unknown | | <input type="radio"/> | 0 | []Yes []No |
| | 2. International number | | <input type="radio"/> | 1 | []Yes []No |
| | 3. National number | | <input type="radio"/> | 2 | []Yes []No |
| | 4. Network specific number | | <input type="radio"/> | 3 | []Yes []No |
| | 5. Subscriber number | | <input type="radio"/> | 4 | []Yes []No |
| 6. Abbreviated number | | <input type="radio"/> | 6 | []Yes []No | |
| CDP1tu 1.2 | NPI (octet 3) | MTu 19-IE4 | M | | []Yes []No |
| | | NOT MTu 19-IE4 | N/A | | []N/A |
| | 1. Unknown | | <input type="radio"/> | 0 | []Yes []No |
| | 2. ISDN/telephony numbering plan | | <input type="radio"/> | 1 | []Yes []No |
| | 3. Data numbering plan | | <input type="radio"/> | 3 | []Yes []No |
| | 4. Telex numbering plan | | <input type="radio"/> | 4 | []Yes []No |
| | 5. National standard numbering plan | | <input type="radio"/> | 8 | []Yes []No |
| 6. Private numbering plan | | <input type="radio"/> | 9 | []Yes []No | |
| CDP1tu 1.3 | Number digits (octet 4 onwards) | MTu 19-IE4 | <input type="radio"/> | Up to 20 digits; | []Yes []No |
| | | NOT MTu 19-IE4 | N/A | max. value supported: | []N/A |
| Comments: | | | | | |

Table A.59: 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) 1. Unknown 2. International number 3. National number 4. Network specific number 5. Subscriber number 6. Abbreviated number | MRu 8-IE4 NOT MRu 8-IE4 | M N/A O O O O O | 0 1 2 3 4 6 | []Yes []No []N/A []Yes []No []Yes []No []Yes []No []Yes []No []Yes []No []Yes []No |
| CDP2ru 1.2 | NPI (octet 3) 1. Unknown 2. ISDN/telephony numbering plan 3. Data numbering plan 4. Telex numbering plan 5. National standard numbering plan 6. Private numbering plan | MRu 8-IE4 NOT MRu 8-IE4 | M N/A O O O O O | 0 1 3 4 8 9 | []Yes []No []N/A []Yes []No []Yes []No []Yes []No []Yes []No []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.60: 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) 1. Unknown 2. International number 3. National number 4. Network specific number 5. Subscriber number 6. Abbreviated number | MTu 8-IE4 NOT MTu 8-IE4 | M N/A O O O O O | 0 1 2 3 4 6 | []Yes []No []N/A []Yes []No []Yes []No []Yes []No []Yes []No []Yes []No |
| CDP2tu 1.2 | NPI (octet 3) 1. Unknown 2. ISDN/telephony numbering plan 3. Data numbering plan 4. Telex numbering plan 5. National standard numbering plan 6. Private numbering plan | MTu 8-IE4 NOT MTu 8-IE4 | M N/A O O O O O | 0 1 3 4 8 9 | []Yes []No []N/A []Yes []No []Yes []No []Yes []No []Yes []No []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 clause need only to be completed for network implementations.

Prerequisite: R 2.2

A.8.1 Type of implementation

Answers to the questions in table A.61 are required to permit the conditions for status for the network role to be properly evaluated for a specific IUT. The questions refer to aspects outside the scope of ETS 300 403-1 [1], but which affect the behaviour of the basic call protocol.

Table A.61: Type of implementation

| Item | Type of implementation Does the implementation... | Conditions for status | Status | Reference | Support |
|-------|---|--------------------------|--------|---|--------------|
| TIn 3 | provide in-band tones/announcements | | I | 5.1.2, 5.1.3, 5.1.7, 5.3.4.1, 5.4 | []Yes []No |
| TIn 4 | support one or more "existing services" (note) | | I | 5.13 | []Yes []No |
| TIn 5 | support services other than "existing services" (note) | | I | 5.13 | []Yes []No |
| TIn 6 | provide an internal alerting supervision timing function | | I | 9.1, table 9.1 | []Yes []No |
| NOTE: | "Existing services" are those basic telecommunication services associated with the speech, 3,1 kHz audio and 64 kbit/s unrestricted bearer capabilities. Services other than the existing services include services based on, for example, the unrestricted digital information with tones / announcements bearer capability. | | | | |

A.8.2 Major capabilities

Each question in table A.62 refers to a major function of the protocol. Answering "Yes" to a particular question states that the implementation supports all the mandatory procedures for that function defined in the referenced clauses and clauses of ETS 300 403-1 [1]. Answering "No" to a particular question states that the implementation does not support that function of the protocol.

Table A.62: Major capabilities of the network role

| Item | Major capability Does the implementation support... | Conditions for status | Status | Reference | Support |
|--|--|--------------------------|----------|-------------------------------------|--------------|
| Call establishment at the originating interface | | | | | |
| MCn 1 | call establishment at the originating interface (outgoing calls from the user's point of view) | | M | 5.1 | []Yes []No |
| MCn 1.1 | the procedures for en-bloc sending (sending from the user's point of view) | | M | 5.1.1, 5.1.5.1 | []Yes []No |
| MCn 1.2 | the procedures for overlap sending (sending from the user's point of view) | | M | 5.1.3, 5.1.5.2 | []Yes []No |
| MCn 1.3 | interpretation of a notification of interworking on an outgoing call (notification sent by the calling user) | | M | 5.1.6 (last paragraph) | []Yes []No |
| MCn 1.4 | transit network selection | | O | 5.1.10, annex C | []Yes []No |
| MCn 1.5 | provision of in-band tones/announcements, during call establishment at the originating interface | TIn 3 NOT TIn 3 | M N/A | 5.1.2, 5.1.3, 5.1.7, 5.4 | []Yes []No |
| MCn 1.6 | sending of a notification of interworking on an outgoing call (notification received by the calling user) | | M | 5.1.6 (first to third paragraph) | []Yes []No |
| Call establishment at the destination interface | | | | | |
| MCn 2 | call establishment at the destination interface (incoming calls from the user's point of view) | | M | 5.2 | []Yes []No |

| Item | Major capability Does the implementation support... | Conditions for status | Status | Reference | Support |
|----------|--|--------------------------|-------------|------------------------------------|-------------------------|
| MCn 2.1 | called party addressing information sent only in the SETUP message (en-bloc receiving from the user's point of view) | | O.20 | 5.2.1, 5.2.5.1 | []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.20 | 5.2.1, 5.2.4, 5.2.5.1 | []Yes []No |
| MCn 2.3 | sending of a notification of interworking on an incoming call (notification sent to the called user) | | M | 5.2.6 (first paragraph) | []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 | 5.2.1, 5.2.3.1 | []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 | 5.2.1, 5.2.3.2 | []Yes []No [] N/A |
| MCn 2.6 | interpretation of a notification of interworking on an incoming call (notification received from the called user) | | M | 5.2.6 (second to fourth paragraph) | []Yes []No |
| MCn 3 | accept call clearing initiated by the user | | M | 5.3.3 | []Yes []No |
| MCn 4.1 | call clearing initiated by the network when tones/announcements provided | TIn 3 NOT TIn 3 | M N/A | 5.3.4.1 | []Yes []No [] N/A |
| MCn 4.2 | call clearing initiated by the network when tones/announcements not provided | | M | 5.3.4.2 | []Yes []No |
| MCn 5.1 | restart procedure (interpretation of a received RESTART message) | R 7.1 NOT R 7.1 | M O | 5.5.2 | []Yes []No |
| MCn 5.2 | initiation of restart procedure | R 7.1 NOT R 7.1 | M O | 5.5.1 | []Yes []No |
| MCn 6 | processing of a call rearrangement request | R 6.1 R 6.2 | O N/A | 5.6 | []Yes []No [] N/A |
| MCn 7.1 | response to status enquiry request | | M | 5.8.10 | []Yes []No |
| MCn 7.2 | initiation of status enquiry procedure | | M | 5.8.10 | []Yes []No |
| MCn 8 | symmetric call operation | | X | 2.1, annex D | []Yes []No |
| MCn 9 | processing of network specific facility request | | O | annex E | []Yes []No |
| MCn 11 | procedures for the control of the user signalling bearer service | | I | 1.1, 2.2, 3.2, 7 | []Yes []No |
| MCn 12 | procedures for establishment of bearer connection prior to call acceptance | | O | annex K | []Yes []No |
| MCn 12.1 | establishment of bearer connection prior to call acceptance, on completion of successful channel negotiation | MCn 12 NOT MCn 12 | O.21 N/A | annex K | []Yes []No []N/A |
| MCn 12.2 | establishment of bearer connection prior to call acceptance, on receipt of a message containing an indication that in-band information is provided | MCn 12 NOT MCn 12 | O.21 N/A | annex K | []Yes []No []N/A |
| MCn 13 | message segmentation procedures | | O | annex H | []Yes []No |
| MCn 14 | D-channel backup procedure | | X | annex F | []Yes []No |
| MCn 15 | procedures for bearer service change | | X | annex L | []Yes []No |
| MCn 16 | procedures for the control of packet communications | | I | 1.1, 3.3, 6 | []Yes []No |
| MCn 17 | procedures for the control of circuit-mode multirate connections | | O | 8 | []Yes []No |
| MCn 18 | resolution of call collisions | | M | 5.7 | []Yes []No |
| MCn 19 | handling of error conditions | | M | 5.8 | []Yes []No |
| MCn 20.1 | initiation of a user notification procedure | MCn 6 NOT MCn 6 | M N/A | 5.9 | []Yes []No []N/A |
| MCn 20.2 | forwarding of user notification | | M | 5.9 | []Yes []No |
| MCn 21.1 | forwarding of BC selection request across the network (procedures at the originating side) | | O | 5.10, 5.11.1 | []Yes []No |
| MCn 21.2 | procedures for BC selection at the destination side | | O | 5.10, 5.11.2, 5.11.3 | []Yes []No |

| Item | Major capability Does the implementation support... | Conditions for status | Status | Reference | Support |
|-----------|---|--------------------------|----------|----------------------|--|
| MCn 22.1 | forwarding of HLC selection request across the network (procedures at the originating side) | | O | 5.10, 5.12.1 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| MCn 22.2 | procedures for HLC selection at the destination side | | O | 5.10, 5.12.2, 5.12.3 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| MCn 23.1 | status request procedures for "existing services" | TIn 4 NOT TIn 4 | M N/A | 5.13 | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| MCn 23.2 | status request procedures for services other than "existing services" | TIn 5 NOT TIn 5 | M N/A | 5.13 | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| O.20 | Support of at least one of these options is required. | | | | |
| O.21 | Support of at least one of these options is required. | | | | |
| Comments: | | | | | |

A.8.3 Subsidiary capabilities

Indicating support for an item in table A.63 states that the implementation supports special cases or options within a major capability.

Table A.63: 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 2 | the indication "no B-channel available" in the SETUP message to the called user | | O | 5.2.1, 5.2.3.1 | []Yes []No |
| SCn 113 | a limitation on the number of calls presented to the called user with the indication "no B-channel available" | SCn 2 NOT SCn 2 | O 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.22 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.22 N/A | 5.2.4 | []Yes []No []N/A |
| 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 |
| Call clearing | | | | | |
| SCn 120.1 | inclusion of a second Cause information element (cause no. 102 "recovery on timer expiry") in the RELEASE message sent by the network on expiry of T305/T306 | | O | 5.3.4bis | []Yes []No |
| SCn 120.2 | inclusion of a diagnostic field in the second Cause information element (cause no. 102 "recovery on timer expiry") of the RELEASE message sent by the network on expiry of T305/T306 | SCn 120.1 NOT SCn 120.1 | O N/A | 5.3.4bis | []Yes []No []N/A |
| Call rearrangements | | | | | |
| SCn 124 | maximum length of 2 octets for the call identity | MCn 6 NOT MCn 6 | O N/A | 5.6.1 | []Yes []No []N/A |
| Restart | | | | | |
| SCn 125.1 | initiation of restart procedure on "indicated channel" | MCn 5.2 NOT MCn 5.2 | M N/A | 5.5.1 | []Yes []No []N/A |

| Item | Subsidiary capability Does the implementation support... | Conditions for status | Status | Reference | Support |
|-------------------------------------|---|--------------------------|-------------|-----------------|------------------------|
| 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.23 | 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.23 | 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.24 | 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.24 | 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.25 | 5.8.4 | []Yes []No |
| SCn 20 | on occurrence of a message type or message sequence error, initiation of the status enquiry procedure | | O.25 | 5.8.4, 5.8.10 | []Yes []No |
| SCn 23 | processing of information elements regardless of their order in the message | | O.26 | 5.8.5.1 | []Yes []No |
| SCn 24 | ignoring out of sequence information elements | | O.26 | 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 |
| 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.27 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.27 M | 5.2.1, 5.8.9 a) | []Yes []No |
| SCn 45.1 | transmission of a STATUS message | | O.28 | 5.8.9 b) | []Yes []No |
| SCn 45.2 | initiation of the status enquiry procedure | | O.28 | 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.29 | 5.8.11 | []Yes []No |
| SCn 160.2 | attempt to recover from a call state mismatch by implementation dependent means | | O.29 | 5.8.11 | []Yes []No |

| Item | Subsidiary capability Does the implementation support... | Conditions for status | Status | Reference | Support |
|-----------------------------|---|---|-------------|----------------|------------------------|
| Multirate procedures | | | | | |
| SCn 170.1 | contiguous channel assignment | MCn 17 NOT MCn 17 | O.30 N/A | 8.1.2, 8.2.2 | []Yes []No []N/A |
| SCn 170.2 | non-contiguous channel assignment | MCn 17 NOT MCn 17 | O.30 N/A | 8.1.2, 8.2.2 | []Yes []No []N/A |
| SCn 171.1 | a restriction that the 384 kbit/s rate occupies specified contiguous time slots | MCn 17 AND R 6.2 NOT MCn 17 OR NOT R 6.2 | O N/A | 8.1.2, 8.2.2 | []Yes []No []N/A |
| SCn 171.2 | a restriction that the 1 536 kbit/s rate occupies specified contiguous time slots | MCn 17 AND R 6.2 NOT MCn 17 OR NOT R 6.2 | O N/A | 8.1.2, 8.2.2 | []Yes []No []N/A |
| SCn 172.1 | selection of any other available B-channels associated with the D -channel and on the same access | MCn 17 NOT MCn 17 | M N/A | 8.1.2, 8.2.2.1 | []Yes []No []N/A |
| SCn 172.2 | selection of all the B-channels on another interface controlled by the D-channel | MCn 17 NOT MCn 17 | X N/A | 8.1.2, 8.2.2.1 | []Yes []No []N/A |
| SCn 173 | interworking between circuit-mode multirate bearer capability and other bearer capabilities | MCn 17 NOT MCn 17 | X N/A | 8.1.3, 8.2.3 | []Yes []No []N/A |
| O.22 | Support of one, and only one, of these options is required. | | | | |
| O.23 | Support of one, and only one, of these options is required. | | | | |
| O.24 | Support of at least one of these options is required. | | | | |
| O.25 | Support of at least one of these options is required. | | | | |
| O.26 | Support of at least one of these options is required. | | | | |
| O.27 | Support of at least one of these options is required. | | | | |
| O.28 | Support of at least one of these options is required. | | | | |
| O.29 | Support of at least one of these options is required. | | | | |
| O.30 | 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 clause 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.64 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 ETS 300 403-1 [1].

Table A.64: Messages received by the network

| Item | Message Does the implementation support the receipt of... | Conditions for status | Status | Reference | Support |
|-----------|---|--------------------------|----------|------------------------------------|------------------------|
| MRn 1 | ALERTING | | M | 3.1.1, 5.2.5.2 | []Yes []No |
| MRn 2 | CALL PROCEEDING | | M | 3.1.2, 5.2.5.2 | []Yes []No |
| MRn 4 | CONNECT | | M | 3.1.3, 5.2.7 | []Yes []No |
| MRn 5 | CONNECT ACKNOWLEDGE | | M | 3.1.4, 5.1.8 | []Yes []No |
| MRn 6 | DISCONNECT | | M | 3.1.5, 5.3.3 | []Yes []No |
| MRn 8 | INFORMATION | | M | 3.1.6, 5.1.3 | []Yes []No |
| MRn 9 | NOTIFY | | M | 3.1.7, 5.6.2, 5.6.4, 5.6.7, 5.9 | []Yes []No |
| MRn 10 | PROGRESS | | M | 3.1.8, 5.1.6 | []Yes []No |
| MRn 11 | RELEASE | | M | 3.1.9, 5.3 | []Yes []No |
| MRn 12 | RELEASE COMPLETE | | M | 3.1.10, 5.3 | []Yes []No |
| MRn 13 | RESTART | MCn 5.1 NOT MCn 5.1 | M N/A | 3.4.1, 5.5.2 | []Yes []No []N/A |
| MRn 14 | RESTART ACKNOWLEDGE | MCn 5.2 NOT MCn 5.2 | M N/A | 3.4.2, 5.5.1 | []Yes []No []N/A |
| MRn 15 | RESUME | MCn 6 NOT MCn 6 | M N/A | 3.1.11, 5.6.4 | []Yes []No []N/A |
| MRn 16 | RESUME ACKNOWLEDGE | | N/A | | N/A |
| MRn 17 | RESUME REJECT | | N/A | | N/A |
| MRn 18 | SEGMENT | MCn 13 NOT MCn 13 | M N/A | 3.5.1, annex H | []Yes []No []N/A |
| MRn 19 | SETUP | | M | 3.1.14, 5.1.1 | []Yes []No |
| MRn 20 | SETUP ACKNOWLEDGE | | M | 3.1.15, 5.2.4 | []Yes []No |
| MRn 21 | STATUS | | M | 3.1.16, 3.4.3, 5.8.11 | []Yes []No |
| MRn 22 | STATUS ENQUIRY | | M | 3.1.17, 5.8.10 | []Yes []No |
| MRn 23 | SUSPEND | MCn 6 NOT MCn 6 | M N/A | 3.1.18, 5.6.1 | []Yes []No []N/A |
| MRn 24 | SUSPEND ACKNOWLEDGE | | N/A | | N/A |
| MRn 25 | SUSPEND REJECT | | N/A | | N/A |
| Comments: | | | | | |

A.8.4.2 Messages transmitted by the network

Indicating support for an item in table A.65 states that the implementation has the ability to transmit the message listed in that item.

Table A.65: Messages transmitted by the network

| Item | Message Does the implementation support the transmission of... | Conditions for status | Status | Reference | Support |
|-----------|--|--------------------------|----------|---|------------------------|
| MTn 1 | ALERTING | | M | 3.1.1, 5.1.7 | []Yes []No |
| MTn 2 | CALL PROCEEDING | | M | 3.1.2, 5.1.5 | []Yes []No |
| MTn 4 | CONNECT | | M | 3.1.3, 5.1.8 | []Yes []No |
| MTn 5 | CONNECT ACKNOWLEDGE | | M | 3.1.4, 5.2.8 | []Yes []No |
| MTn 6 | DISCONNECT | | M | 3.1.5, 5.3.4 | []Yes []No |
| MTn 8 | INFORMATION | MCn 2.2 NOT MCn 2.2 | M O | 3.1.6, 5.2.4 | []Yes []No |
| MTn 9 | NOTIFY | | M | 3.1.7, 5.9 | []Yes []No |
| MTn 10 | PROGRESS | | M | 3.1.8, 5.1.6, 5.2.6, 5.4, annex K | []Yes []No |
| MTn 11 | RELEASE | | M | 3.1.9, 5.3 | []Yes []No |
| MTn 12 | RELEASE COMPLETE | | M | 3.1.10, 5.3 | []Yes []No |
| MTn 13 | RESTART | MCn 5.2 NOT MCn 5.2 | M N/A | 3.4.1, 5.5.1 | []Yes []No []N/A |
| MTn 14 | RESTART ACKNOWLEDGE | MCn 5.1 NOT MCn 5.1 | M N/A | 3.4.2, 5.5.2 | []Yes []No []N/A |
| MTn 15 | RESUME | | N/A | | N/A |
| MTn 16 | RESUME ACKNOWLEDGE | MCn 6 NOT MCn 6 | M N/A | 3.1.12, 5.6.4 | []Yes []No []N/A |
| MTn 17 | RESUME REJECT | MCn 6 NOT MCn 6 | M N/A | 3.1.13, 5.6.5 | []Yes []No []N/A |
| MTn 18 | SEGMENT | MCn 13 NOT MCn 13 | M N/A | annex H | []Yes []No []N/A |
| MTn 19 | SETUP | | M | 3.1.14, 5.2.1 | []Yes []No |
| MTn 20 | SETUP ACKNOWLEDGE | | M | 3.1.15, 5.1.3 | []Yes []No |
| MTn 21 | STATUS | | M | 3.1.16, 3.4.3, 5.8.10, 5.8.10, 5.8.11 | []Yes []No |
| MTn 22 | STATUS ENQUIRY | | M | 3.1.17, 5.8.10 | []Yes []No |
| MTn 23 | SUSPEND | | N/A | | N/A |
| MTn 24 | SUSPEND ACKNOWLEDGE | MCn 6 NOT MCn 6 | M N/A | 3.1.19, 5.6.2 | []Yes []No []N/A |
| MTn 25 | SUSPEND REJECT | MCn 6 NOT MCn 6 | M N/A | 3.1.20, 5.6.3 | []Yes []No []N/A |
| Comments: | | | | | |

A.8.5 PDU parameters

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

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

Tables A.66 and A.67 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.66: 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 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| MRn-IE30 | Call reference | | M | 3.1, 4.3 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| MRn-IE31 | Message type | | M | 3.1, 4.4 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| MRn-IE25 | Shift | | M | 3.1, 4.5.2, 4.5.3, 4.5.4 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Comments: | | | | | |

Table A.67: 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 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| MTn-IE30 | Call reference | | M | 3.1, 4.3 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| MTn-IE31 | Message type | | M | 3.1, 4.4 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| MTn-IE25 | Shift | | O | 3.1, 4.5.2, 4.5.3, 4.5.4 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Comments: | | | | | |

Table A.68 covers those information elements defined by ITU-T Recommendation Q.931 [5], the use of which is not permitted by ETS 300 403-1 [1].

Table A.68: Information elements not permitted by ETS 300 403-1 [1]

| Item | Information element | Conditions for status | Status | Reference | Support |
|-----------|---------------------|-----------------------|--------|-------------|--|
| Mn-IE21 | Repeat indicator | | X | 3.3, 4.5.24 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Mn-IE26 | Signal | | X | 4.5.28 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Comments: | | | | | |

Table A.69 covers those information elements defined by ITU-T Recommendation Q.931 [5], the use of which is outside the scope of ETS 300 403-1 [1].

Table A.69: Information elements outside the scope of ETS 300 403-1 [1]

| Item | Information element | Conditions for status | Status | Reference | Support |
|-----------|--|-----------------------|--------|-------------|--------------|
| Mn-IE17 | More data | | I | 3.3, 4.5.20 | []Yes []No |
| Mn-IE10 | Congestion level | | I | 3.3, 4.5.14 | []Yes []No |
| Mn-IE32 | Information rate | | I | 3.2, 4.6 | []Yes []No |
| Mn-IE33 | End-to-end transit delay | | I | 3.2, 4.6 | []Yes []No |
| Mn-IE34 | Transit delay selection and indication | | I | 3.2, 4.6 | []Yes []No |
| Mn-IE35 | Packet layer binary parameters | | I | 3.2, 4.6 | []Yes []No |
| Mn-IE36 | Packet layer window size | | I | 3.2, 4.6 | []Yes []No |
| Mn-IE37 | Packet size | | I | 3.2, 4.6 | []Yes []No |
| Mn-IE38 | Closed user group | | I | 3.2, 4.6 | []Yes []No |
| Mn-IE39 | Reverse charge indication | | I | 3.2, 4.6 | []Yes []No |
| Mn-IE40 | Redirecting number | | I | 3.2, 4.6 | []Yes []No |
| Mn-IE28 | User-user | | I | 3.3, 4.5.30 | []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 clause 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.70: Information elements in ALERTING received by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|---|-------------------------------------|--------------------------|----------|---------------------------------|------------------------|
| MRn1-IE1 | Bearer capability | MCn 21.2 NOT MCn 21.2 | M N/A | 3.1.1, 5.11.3 | []Yes []No []N/A |
| MRn1-IE9 | Channel identification | | M | 3.1.1, 5.2.3 | []Yes []No |
| MRn1-IE20 | Progress indicator | | M | 3.1.1, 5.2.6, 5.11.3, 5.12.3 | []Yes []No |
| MRn1-IE12 | Display | | N/A | | N/A |
| MRn1-IE14 | High layer compatibility (T) (note) | MCn 22.2 NOT MCn 22.2 | M N/A | 3.1.1, 5.12.3 | []Yes []No []N/A |
| NOTE: 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.71: Information elements in CALL PROCEEDING received by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|---|-------------------------------------|--------------------------|----------|---------------------------------|------------------------|
| MRn2-IE1 | Bearer capability | MCn 21.2 NOT MCn 21.2 | M N/A | 3.1.2, 5.11.3 | []Yes []No []N/A |
| MRn2-IE9 | Channel identification | | M | 3.1.2, 5.2.3 | []Yes []No |
| MRn2-IE20 | Progress indicator | | M | 3.1.2, 5.2.6, 5.11.3, 5.12.3 | []Yes []No |
| MRn2-IE12 | Display | | N/A | | N/A |
| MRn2-IE14 | High layer compatibility (T) (note) | MCn 22.2 NOT MCn 22.2 | M N/A | 3.1.2, 5.12.3 | []Yes []No []N/A |
| NOTE: 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.72: Information elements in CONNECT received by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|--|---------------------------------------|--------------------------|----------|---------------------------------|------------------------|
| MRn4-IE1 | Bearer capability | MCn 21.2 NOT MCn 21.2 | M N/A | 3.1.3, 5.11.2, 5.11.3 | []Yes []No []N/A |
| MRn4-IE9 | Channel identification | | M | 3.1.3, 5.2.3 | []Yes []No |
| MRn4-IE20 | Progress indicator | | M | 3.1.3, 5.2.6, 5.11.3, 5.12.3 | []Yes []No |
| MRn4-IE12 | Display | | N/A | | N/A |
| MRn4-IE11 | Date/time | | N/A | | N/A |
| MRn4-IE16 | Low layer compatibility (T) (note 1) | | M | 3.1.3, annex J | []Yes []No |
| MRn4-IE14 | High layer compatibility (T) (note 2) | MCn 22.2 NOT MCn 22.2 | M N/A | 3.1.3, 5.12.2 | []Yes []No []N/A |
| NOTE 1: 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) pass this parameter to a non-protocol entity so that it be transported transparently between an addressed entity and call originating entity (during Low layer compatibility negotiation, if allowed). | | | | | |
| NOTE 2: 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 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.74: Information elements in DISCONNECT received by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|-----------|---------------------|-----------------------|--------|--------------|--------------|
| MRn6-IE8 | Cause (T) | | I | 3.1.5, 5.3.3 | []Yes []No |
| MRn6-IE20 | Progress indicator | | N/A | | N/A |
| MRn6-IE12 | Display | | N/A | | N/A |
| Comments: | | | | | |

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

| Item | Information element | Conditions for status | Status | Reference | Support |
|--|----------------------------|-----------------------|--------|---------------------|--------------|
| MRn8-IE24 | Sending complete | | M | 3.1.6, 5.1.1, 5.1.3 | []Yes []No |
| MRn8-IE8 | Cause | | N/A | | N/A |
| MRn8-IE12 | Display | | N/A | | N/A |
| MRn8-IE15 | Keypad facility (T) (note) | | O | 3.1.6, 5, 5.1.3 | []Yes []No |
| MRn8-IE4 | Called party number | | M | 3.1.6, 5.1.1, 5.1.3 | []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.76: Information elements in NOTIFY received by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|-----------|----------------------------|-----------------------|--------|------------|--------------|
| MRn9-IE19 | Notification indicator (T) | | I | 3.1.7, 5.9 | []Yes []No |
| MRn9-IE12 | Display | | N/A | | N/A |
| Comments: | | | | | |

Table A.77: Information elements in PROGRESS received by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|---|-------------------------------------|--------------------------|----------|---------------------------------|------------------------|
| MRn10-IE1 | Bearer capability | MCn 21.2 NOT MCn 21.2 | M N/A | 3.1.8, 5.11.3 | []Yes []No []N/A |
| MRn10-IE8 | Cause (T) | | I | 3.1.8 | []Yes []No |
| MRn10-IE20 | Progress indicator | | M | 3.1.8, 5.2.6, 5.11.3, 5.12.3 | []Yes []No |
| MRn10-IE12 | Display | | N/A | | N/A |
| MRn10-IE14 | High layer compatibility (T) (note) | MCn 22.2 NOT MCn 22.2 | M N/A | 3.1.8, 5.12.3 | []Yes []No []N/A |
| NOTE: 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.78: Information elements in RELEASE received by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|------------|---------------------|-----------------------|--------|------------|--------------|
| MRn11-IE8 | Cause (T) | | I | 3.1.9, 5.3 | []Yes []No |
| MRn11-IE12 | Display | | N/A | | N/A |
| Comments: | | | | | |

Table A.79: Information elements in RELEASE COMPLETE received by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|------------|---------------------|-----------------------|--------|-------------|--------------|
| MRn12-IE8 | Cause (T) | | I | 3.1.10, 5.3 | []Yes []No |
| MRn12-IE12 | Display | | N/A | | N/A |
| Comments: | | | | | |

Table A.80: Information elements in RESTART received by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|------------|------------------------|-----------------------|----------|------------|------------------------|
| MRn13-IE9 | Channel identification | MRn 13 NOT MRn 13 | M N/A | 3.4.1, 5.5 | []Yes []No []N/A |
| MRn13-IE12 | Display | | N/A | | N/A |
| MRn13-IE22 | Restart indicator | MRn 13 NOT MRn 13 | M N/A | 3.4.1, 5.5 | []Yes []No []N/A |
| Comments: | | | | | |

Table A.81: Information elements in RESTART ACKNOWLEDGE received by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|------------|------------------------|-----------------------|----------|------------|------------------------|
| MRn14-IE9 | Channel identification | MRn 14 NOT MRn 14 | M N/A | 3.4.2, 5.5 | []Yes []No []N/A |
| MRn14-IE12 | Display | | N/A | | N/A |
| MRn14-IE22 | Restart indicator | MRn 14 NOT MRn 14 | M N/A | 3.4.2, 5.5 | []Yes []No []N/A |
| Comments: | | | | | |

Table A.82: Information elements in RESUME received by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|-----------|---------------------|-----------------------|----------|-------------------------|------------------------|
| MRn15-IE2 | Call identity | MRn 15 NOT MRn 15 | M N/A | 3.1.11, 5.6.4, 5.6.5 | []Yes []No []N/A |
| Comments: | | | | | |

Table A.83: 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 | 3.5.1, annex H | []Yes []No []N/A |
| MRn18-IEEx | "Segment" | MRn 18 NOT MRn 18 | M N/A | 3.5.1, annex H | []Yes []No []N/A |
| Comments: | | | | | |

Table A.84: Information elements in SETUP received by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|--|---------------------------------------|------------------------|----------|--------------------------|------------------------|
| MRn19-IE24 | Sending complete | | M | 3.1.14, 5.1.1, 5.1.3 | []Yes []No |
| MRn19-IE1 | Bearer capability | | M | 3.1.14, 5.1.1, 5.1.1.1 | []Yes []No |
| MRn19-IE9 | Channel identification | | M | 3.1.14, 5.1.2 | []Yes []No |
| MRn19-IE20 | Progress indicator | | M | 3.1.14, 5.1.6 | []Yes []No |
| MRn19-IE18 | Network specific facilities | MCn 9 NOT MCn 9 | M N/A | 3.1.14, annex E | []Yes []No []N/A |
| MRn19-IE12 | Display | | N/A | | N/A |
| MRn19-IE15 | Keypad facility (T) (note 1) | | O | 3.1.14, 5, 5.1.3 | []Yes []No |
| MRn19-IE6 | Calling party number | | M | 3.1.14 | []Yes []No |
| MRn19-IE7 | Calling party subaddress | | M | 3.1.14 | []Yes []No |
| MRn19-IE4 | Called party number | | M | 3.1.14, 5.1.1, 5.1.3 | []Yes []No |
| MRn19-IE5 | Called party subaddress (T) (note 2) | | M | 3.1.14, 5.1.1, 5.1.3 | []Yes []No |
| MRn19-IE27 | Transit network selection | MCn 1.4 NOT MCn 1.4 | M N/A | 3.1.14, 5.1.10, annex C | []Yes []No []N/A |
| MRn19-IE16 | Low layer compatibility (T) (note 3) | | M | 3.1.14, annex I, annex J | []Yes []No |
| MRn19-IE14 | High layer compatibility (T) (note 4) | | M | 3.1.14, 5.12.1 | []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 is 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) pass this parameter to a non-protocol entity so that it be transported transparently between an addressed entity and call originating entity (during Low layer compatibility negotiation, if allowed). | | | | | |
| NOTE 4: 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.85: Information elements in SETUP ACKNOWLEDGE received by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|------------|------------------------|-----------------------|--------|--------------------------------|--------------|
| MRn20-IE9 | Channel identification | | M | 3.1.15, 5.2.3 | []Yes []No |
| MRn20-IE20 | Progress indicator | | M | 3.1.15, 5.2.6, 5.1.1.3, 5.12.3 | []Yes []No |
| MRn20-IE12 | Display | | N/A | | N/A |
| Comments: | | | | | |

Table A.86: Information elements in STATUS received by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|------------|---------------------|-----------------------|--------|--|--------------|
| MRn21-IE8 | Cause (T) | | I | 3.1.16, 3.4.3, 5.8.10, 5.8.11 | []Yes []No |
| MRn21-IE3 | Call state | | M | 3.1.16, 3.4.3, 5.8.3.2, 5.8.10, 5.8.11 | []Yes []No |
| MRn21-IE12 | Display | | N/A | | N/A |
| Comments: | | | | | |

Table A.87: 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.88: Information elements in SUSPEND received by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|-----------|---------------------|-----------------------|----------|-----------------------------|------------------------|
| MRn23-IE2 | Call identity | MRn 23 NOT MRn 23 | M N/A | 3.1.18, 5.6.1, 5.6.2, 5.6.3 | []Yes []No []N/A |
| Comments: | | | | | |

A.8.5.2 Information elements in messages transmitted by the network

Indicating support for an item in the tables in this clause states that the implementation has the ability to generate, and to transmit in the specified message, the 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.89: Information elements in ALERTING transmitted by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|-----------|--------------------------|--------------------------|----------|---|------------------------|
| MTn1-IE1 | Bearer capability | MCn 21.1 NOT MCn 21.1 | M N/A | 3.1.1, 5.11.1 | []Yes []No []N/A |
| MTn1-IE9 | Channel identification | | X | | []Yes []No |
| MTn1-IE20 | Progress indicator | | M | 3.1.1, 5.1.6, 5.11.1, 5.12.1, annex K | []Yes []No |
| MTn1-IE12 | Display | | O | 3.1.1 | []Yes []No |
| MTn1-IE14 | High layer compatibility | MCn 22.1 NOT MCn 22.1 | M N/A | 3.1.1, 5.12.1 | []Yes []No []N/A |
| Comments: | | | | | |

Table A.90: Information elements in CALL PROCEEDING transmitted by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|-----------|--------------------------|--------------------------|----------|---------------------------------|------------------------|
| MTn2-IE1 | Bearer capability | MCn 21.1 NOT MCn 21.1 | M N/A | 3.1.2, 5.11.1 | []Yes []No []N/A |
| MTn2-IE9 | Channel identification | | M | 3.1.2, 5.1.2 | []Yes []No |
| MTn2-IE20 | Progress indicator | | M | 3.1.2, 5.1.6, 5.11.1, 5.12.1 | []Yes []No |
| MTn2-IE12 | Display | | O | 3.1.2 | []Yes []No |
| MTn2-IE14 | High layer compatibility | MCn 22.1 NOT MCn 22.1 | M N/A | 3.1.2, 5.12.1 | []Yes []No []N/A |
| Comments: | | | | | |

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

| Item | Information element | Conditions for status | Status | Reference | Support |
|-----------|--------------------------|--------------------------|----------|---------------------------------|------------------------|
| MTn4-IE1 | Bearer capability | MCn 21.1 NOT MCn 21.1 | M N/A | 3.1.3, 5.11.1 | []Yes []No []N/A |
| MTn4-IE9 | Channel identification | | X | | []Yes []No |
| MTn4-IE20 | Progress indicator | | M | 3.1.3, 5.1.6, 5.11.1, 5.12.1 | []Yes []No |
| MTn4-IE12 | Display | | O | 3.1.3 | []Yes []No |
| MTn4-IE11 | Date/time | | O | 3.1.3 | []Yes []No |
| MTn4-IE16 | Low layer compatibility | | O | 3.1.3, annex J | []Yes []No |
| MTn4-IE14 | High layer compatibility | MCn 22.1 NOT MCn 22.1 | M N/A | 3.1.3, 5.12.1 | []Yes []No []N/A |
| Comments: | | | | | |

Table A.92: Information elements in CONNECT ACKNOWLEDGE transmitted by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|-----------|---------------------|-----------------------|--------|-----------|--------------|
| MTn5-IE12 | Display | | O | 3.1.4 | []Yes []No |
| Comments: | | | | | |

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

| Item | Information element | Conditions for status | Status | Reference | Support |
|-----------|---------------------|-----------------------|--------|-----------------|--------------|
| MTn6-IE8 | Cause | | M | 3.1.5, 5.3.4 | []Yes []No |
| MTn6-IE20 | Progress indicator | | M | 3.1.5, 5.3.4.1, | []Yes []No |
| MTn6-IE12 | Display | | O | 3.1.5 | []Yes []No |
| Comments: | | | | | |

Table A.94: 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 | 3.1.6, 5.2.4 | []Yes []No []N/A |
| MTn8-IE8 | Cause | MTn 8 NOT MTn 8 | O N/A | 3.1.6 | []Yes []No []N/A |
| MTn8-IE12 | Display | MTn 8 NOT MTn 8 | O N/A | 3.1.6 | []Yes []No []N/A |
| MTn8-IE15 | Keypad facility | MTn 8 NOT MTn 8 | O N/A | 3.1.6 | []Yes []No []N/A |
| MTn8-IE4 | Called party number | MTn 8 NOT MTn 8 | M N/A | 3.1.6, 5.2.4 | []Yes []No []N/A |
| Comments: | | | | | |

Table A.95: Information elements in NOTIFY transmitted by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|-----------|------------------------|-----------------------|--------|-----------------------------|--------------|
| MTn9-IE19 | Notification indicator | | M | 3.1.7, 5.6.2, 5.6.4, 5.9 | []Yes []No |
| MTn9-IE12 | Display | | O | 3.1.7 | []Yes []No |
| Comments: | | | | | |

Table A.96: Information elements in PROGRESS transmitted by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|------------|--------------------------|--------------------------|----------|---|------------------------|
| MTn10-IE1 | Bearer capability | MCn 21.1 NOT MCn 21.1 | M N/A | 3.1.8, 5.11.1 | []Yes []No []N/A |
| MTn10-IE8 | Cause | | O | 3.1.8 | []Yes []No |
| MTn10-IE20 | Progress indicator | | M | 3.1.8, 5.1.6, 5.2.6, 5.11.1, 5.12.1 | []Yes []No |
| MTn10-IE12 | Display | | O | 3.1.8 | []Yes []No |
| MTn10-IE14 | High layer compatibility | MCn 22.1 NOT MCn 22.1 | M N/A | 3.1.8, 5.12.1 | []Yes []No []N/A |
| Comments: | | | | | |

Table A.97: Information elements in RELEASE transmitted by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|------------|---------------------|-----------------------|--------|------------|--|
| MTn11-IE8 | Cause | | M | 3.1.9, 5.3 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| MTn11-IE12 | Display | | O | 3.1.9 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Comments: | | | | | |

Table A.98: Information elements in RELEASE COMPLETE transmitted by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|------------|---------------------|-----------------------|--------|-------------|--|
| MTn12-IE8 | Cause | | M | 3.1.10, 5.3 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| MTn12-IE12 | Display | | O | 3.1.10 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Comments: | | | | | |

Table A.99: Information elements in RESTART transmitted by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|------------|------------------------|-----------------------|----------|------------|--|
| MTn13-IE9 | Channel identification | MTn 13 NOT MTn 13 | M N/A | 3.4.1, 5.5 | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| MTn13-IE12 | Display | MTn 13 NOT MTn 13 | O N/A | 3.4.1 | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| MTn13-IE22 | Restart indicator | MTn 13 NOT MTn 13 | M N/A | 3.4.1, 5.5 | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| Comments: | | | | | |

Table A.100: Information elements in RESTART ACKNOWLEDGE transmitted by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|---|------------------------|-----------------------|-----------------|------------|--|
| MTn14-IE9 | Channel identification | MTn 14 NOT MTn 14 | O (Note) N/A | 3.4.2, 5.5 | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| MTn14-IE12 | Display | MTn 14 NOT MTn 14 | O N/A | 3.4.2 | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| MTn14-IE22 | Restart indicator | MTn 14 NOT MTn 14 | M N/A | 3.4.2, 5.5 | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| NOTE: Included when necessary to indicate the particular channel(s) which have been restarted. The Channel Identification I.E. may not be included if all channels have been restarted. | | | | | |
| Comments: | | | | | |

Table A.101: Information elements in RESUME ACKNOWLEDGE transmitted by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|------------|------------------------|-----------------------|----------|---------------|------------------------|
| MTn16-IE9 | Channel identification | MTn 16 NOT MTn 16 | M N/A | 3.1.12, 5.6.4 | []Yes []No []N/A |
| MTn16-IE12 | Display | MTn 16 NOT MTn 16 | O N/A | 3.1.12 | []Yes []No []N/A |
| Comments: | | | | | |

Table A.102: Information elements in RESUME REJECT transmitted by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|------------|---------------------|-----------------------|----------|---------------|------------------------|
| MTn17-IE8 | Cause | MTn 17 NOT MTn 17 | M N/A | 3.1.13, 5.6.5 | []Yes []No []N/A |
| MTn17-IE12 | Display | MTn 17 NOT MTn 17 | O N/A | 3.1.13 | []Yes []No []N/A |
| Comments: | | | | | |

Table A.103: 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 | 3.5.1, annex H | []Yes []No []N/A |
| MTn18-IEEx | "Segment" | MTn 18 NOT MTn 18 | M N/A | 3.5.1, annex H | []Yes []No []N/A |
| Comments: | | | | | |

Table A.104: 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 | 3.1.14, 5.2.1 | []Yes []No []N/A |
| MTn19-IE1 | Bearer capability | | M | 3.1.14, 5.2.1 | []Yes []No |
| MTn19-IE9 | Channel identification | | M | 3.1.14, 5.2.3 | []Yes []No |
| MTn19-IE20 | Progress indicator | | M | 3.1.14, 5.2.6 | []Yes []No |
| MTn19-IE18 | Network specific facilities | | O | 3.1.14, annex E | []Yes []No |
| MTn19-IE12 | Display | | O | 3.1.14, 5.2.1 | []Yes []No |
| MTn19-IE15 | Keypad facility | | O | | []Yes []No |
| MTn19-IE6 | Calling party number | | O | 3.1.14 | []Yes []No |
| MTn19-IE7 | Calling party subaddress | | O | 3.1.14 | []Yes []No |
| MTn19-IE4 | Called party number | | M | 3.1.14, 5.2.1, 5.2.2, 5.2.3, 5.2.4 | []Yes []No |
| MTn19-IE5 | Called party subaddress | | M | 3.1.14 | []Yes []No |
| MTn19-IE27 | Transit network selection | | X | | []Yes []No |
| MTn19-IE16 | Low layer compatibility | | M | 3.1.14, 5.2.1, annex I, annex J | []Yes []No |
| MTn19-IE14 | High layer compatibility | | M | 3.1.14, 5.2.1, 5.12.1 | []Yes []No |
| Comments: | | | | | |

Table A.105: Information elements in SETUP ACKNOWLEDGE transmitted by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|------------|------------------------|-----------------------|--------|--|--------------|
| MTn20-IE9 | Channel identification | | M | 3.1.15, 5.1.2 | []Yes []No |
| MTn20-IE20 | Progress indicator | | M | 3.1.15, 5.1.6, 5.11.1, 5.12.1, annex K | []Yes []No |
| MTn20-IE12 | Display | | O | 3.1.15 | []Yes []No |
| Comments: | | | | | |

Table A.106: Information elements in STATUS transmitted by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|------------|---------------------|-----------------------|--------|--------------------|--------------|
| MTn21-IE8 | Cause | | M | 3.1.16, 3.4.3, 5.8 | []Yes []No |
| MTn21-IE3 | Call state | | M | 3.1.16, 3.4.3, 5.8 | []Yes []No |
| MTn21-IE12 | Display | | O | 3.1.16 | []Yes []No |
| Comments: | | | | | |

Table A.107: Information elements in STATUS ENQUIRY transmitted by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|------------|---------------------|-----------------------|--------|-----------|--|
| MTn22-IE12 | Display | | O | 3.1.17 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Comments: | | | | | |

Table A.108: Information elements in SUSPEND ACKNOWLEDGE transmitted by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|------------|---------------------|-----------------------|----------|-----------|--|
| MTn24-IE12 | Display | MTn 24 NOT MTn 24 | O N/A | 3.1.19 | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| Comments: | | | | | |

Table A.109: Information elements in SUSPEND REJECT transmitted by the network

| Item | Information element | Conditions for status | Status | Reference | Support |
|------------|---------------------|-----------------------|----------|---------------|--|
| MTn25-IE8 | Cause | MTn 25 NOT MTn 25 | M N/A | 3.1.20, 5.6.3 | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| MTn25-IE12 | Display | MTn 25 NOT MTn 25 | O N/A | 3.1.20 | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| Comments: | | | | | |

A.8.6 Timers

Indicating support for an item in table A.110 states that the implementation has a timer that operates in accordance with the description in clause 9 of ITU-T Recommendation Q.931 [5] as modified by ETS 300 403-1 [1] and with the relevant behaviour specified in clause 5 of ITU-T Recommendation Q.931 [5] as modified by ETS 300 403-1 [1].

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

Table A.110: 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 | Table 9.1 | []Yes []No []N/A | > 180 s | |
| TMn 2 | T302 | | M | Table 9.1 | []Yes []No | 10 - 15 s | |
| TMn 3 | T303 | | M | Table 9.1 | []Yes []No | 4 s | |
| TMn 4 | T304 | MCn 2.2 NOT MCn 2.2 | M N/A | Table 9.1 | []Yes []No []N/A | 20 s | |
| TMn 5 | T305 | | M | Table 9.1 | []Yes []No | 30 s | |
| TMn 6 | T306 | MCn 1.5 NOT MCn 1.5 | M N/A | Table 9.1 | []Yes []No []N/A | 30 s | |
| TMn 7 | T307 | | M | Table 9.1 | []Yes []No | 180 s | |
| TMn 8 | T308 | | M | Table 9.1 | []Yes []No | 4 s | |
| TMn 9 | T309 | | M | Table 9.1 | []Yes []No | 6 - 12 s (note) | |
| TMn 10 | T310 | | M | Table 9.1 | []Yes []No | 30 - 40 s | |
| TMn 11 | T312 | | M | Table 9.1 | []Yes []No | T303 + 2 s | |
| TMn 13 | T314 | MCn 13 NOT MCn 13 | M N/A | Table 9.1 | []Yes []No []N/A | 4 s | |
| TMn 14 | T316 | MCn 5.2 NOT MCn 5.2 | M N/A | Table 9.1 | []Yes []No []N/A | 120 s | |
| TMn 15 | T317 | MCn 5.1 NOT MCn 5.1 | M N/A | Table 9.1 | []Yes []No []N/A | < T316 | |
| TMn 18 | T321 | | I | | []Yes []No | N/A | N/A |
| TMn 19 | T322 | | M | Table 9.1 | []Yes []No | 4 s | |
| TMn 20 | T320 | | I | | []Yes []No | N/A | N/A |
| NOTE: The value of T309 is calculated according to the formula: $T309 = (N200 + 1) * T200 + 2 \text{ s}$. | | | | | | | |
| Comments: | | | | | | | |

A.8.7 Compatibility information elements structure

Table A.111 shall be completed in order to evaluate the chance of interoperability of two implementations.

NOTE: Because LLC and the HLC are transferred transparently by the network, there is no table dealing with them.

Table A.111: 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. ITU-T standardized coding | M | 0 | []Yes []No |
| | 2. ISO/IEC standard | N/A | 1 | |
| | 3. National standard | N/A | 2 | |
| | 4. Network specific standard | N/A | 3 | |
| ISn 1.2 | Octet 3 bits 1 to 5, information transfer capability | M | | []Yes []No |
| | 1. Speech | O | 0 | []Yes []No |
| | 2. Unrestricted digital | O | 8 | []Yes []No |
| | 3. Restricted digital | N/A | 9 | |
| | 4. 3,1 kHz audio | O | 16 | []Yes []No |
| | 5. Unrestricted digital information with tones/announcements | O | 17 | []Yes []No |
| | 6. Video | N/A | 24 | []Yes []No |
| ISn 1.3 | Octet 4 bits 6 and 7, transfer mode | M | | []Yes []No |
| | 1. Circuit | O | 0 | []Yes []No |
| | 2. Packet | N/A | 2 | []Yes []No []N/A |
| ISn 1.4 | Octet 4 bits 1 to 5, information transfer rate | M | | []Yes []No |
| | 1. 64 kbit/s | O | 16 | []Yes []No |
| | 2. 2 x 64 kbit/s | N/A | 17 | []Yes []No |
| | 3. 384 kbit/s | N/A | 19 | []Yes []No |
| | 4. 1 536 kbit/s | N/A | 21 | []Yes []No |
| | 5. 1 920 kbit/s | N/A | 23 | []Yes []No |
| | 6. Multirate | O | 24 | []Yes []No |
| ISn 1.9 | Octet 4.1 Rate multiplier | O | 2 up to the maximum number of B-channels | Values: |
| ISn 1.10 | Octet 5 bits 1 to 5, user information layer 1 protocol | O | | []Yes []No |
| | 1. V.110/X.30 | O | 1 | []Yes []No |
| | 2. G.711 μ -law | N/A | 2 | |
| | 3. G.711 A-law | O | 3 | []Yes []No |
| | 4. G.721 32 kbit/s ADPCM and I.460 | O | 4 | []Yes []No |
| | 5. G.722 and G.725 7kHz audio | O | 5 | []Yes []No |
| | 7. Non-ITU-T rate adaption | O | 7 | []Yes []No |
| | 8. V.120 | N/A | 8 | |
| | 9. X.31 HDLC | O | 9 | []Yes []No |
| ISn 1.11 | Octet 5a bit 7, synchronous/asynchronous | O | | []Yes []No |
| | 1. Synchronous | O | 0 | []Yes []No |
| | 2. Asynchronous | O | 1 | []Yes []No |
| ISn 1.12 | Octet 5a bit 6, negotiation indicator | O | | []Yes []No |
| | 1. In-band negotiation not possible | O | 0 | []Yes []No |
| | 2. In-band negotiation possible | O | 1 | []Yes []No |
| ISn 1.13 | Octet 5a bits 1 to 5, user rate | O | | []Yes []No |
| | 1. Rate indicated by E bits (I.460) | O | 0 | []Yes []No |
| | 2. 0,6 kbit/s ITU-T V.6 and X.1 | O | 1 | []Yes []No |
| | 3. 1,2 kbit/s ITU-T V.6 | O | 2 | []Yes []No |
| | 4. 2,4 kbit/s ITU-T V.6 and X.1 | O | 3 | []Yes []No |
| | 5. 3,6 kbit/s ITU-T V.6 | O | 4 | []Yes []No |
| | 6. 4,8 kbit/s ITU-T V.6 and X.1 | O | 5 | []Yes []No |
| | 7. 7,2 kbit/s ITU-T V.6 | O | 6 | []Yes []No |
| | 8. 8 kbit/s ITU-T I.460 | O | 7 | []Yes []No |
| | 9. 9,6 kbit/s ITU-T V.6 and X.1 | O | 8 | []Yes []No |
| | 10. 14,4 kbit/s ITU-T V.6 | O | 9 | []Yes []No |
| | 11. 16 kbit/s ITU-T I.460 | O | 10 | []Yes []No |
| | 12. 19,2 kbit/s ITU-T V.6 | O | 11 | []Yes []No |

| Item | Information element field | Status | Values | Support |
|----------|---|--------|--------|--------------|
| | 13. 32 kbit/s ITU-T I.460 | O | 12 | []Yes []No |
| | 14. 48 kbit/s ITU-T V.6 and X.1 | O | 14 | []Yes []No |
| | 15. 56 kbit/s ITU-T V.6 | O | 15 | []Yes []No |
| | 16. 64 kbit/s ITU-T X.1 | O | 16 | []Yes []No |
| | 17. 0,1345 kbit/s ITU-T X.1 | O | 21 | []Yes []No |
| | 18. 0,100 kbit/s ITU-T X.1 | O | 22 | []Yes []No |
| | 19. 0,075/1,2 kbit/s ITU-T V.6 and X.1 | O | 23 | []Yes []No |
| | 20. 1,2/0,075 kbit/s ITU-T V.6 and X.1 | O | 24 | []Yes []No |
| | 21. 0,050 kbit/s ITU-T V.6 and X.1 | O | 25 | []Yes []No |
| | 22. 0,075 kbit/s ITU-T V.6 and X.1 | O | 26 | []Yes []No |
| | 23. 0,110 kbit/s ITU-T V.6 and X.1 | O | 27 | []Yes []No |
| | 24. 0,150 kbit/s ITU-T V.6 and X.1 | O | 28 | []Yes []No |
| | 25. 0,200 kbit/s ITU-T V.6 and X.1 | O | 29 | []Yes []No |
| | 26. 0,300 kbit/s ITU-T V.6 and X.1 | O | 30 | []Yes []No |
| | 27. 12 kbit/s ITU-T V.6 | O | 31 | []Yes []No |
| | Octet 5b, for V.110/X.30 rate adaption | | | |
| ISn 1.14 | Octet 5b bits 6 and 7, intermediate rate | O | | []Yes []No |
| | 1. Not used | O | 0 | []Yes []No |
| | 2. 8 kbit/s | O | 1 | []Yes []No |
| | 3. 16 kbit/s | O | 2 | []Yes []No |
| | 4. 32 kbit/s | O | 3 | []Yes []No |
| ISn 1.15 | Octet 5b bit 5, network independent clock (NIC) on transmission | O | | []Yes []No |
| | 1. Not required to send data with NIC | O | 0 | []Yes []No |
| | 2. Required to send data with NIC | O | 1 | []Yes []No |
| ISn 1.16 | Octet 5b bit 4, NIC on reception | O | | []Yes []No |
| | 1. Cannot accept data with NIC | O | 0 | []Yes []No |
| | 2. Can accept data with NIC | O | 1 | []Yes []No |
| ISn 1.17 | Octet 5b bit 3, flow control on transmission | O | | []Yes []No |
| | 1. Not required to send data with flow control | O | 0 | []Yes []No |
| | 2. Required to send data with flow control | O | 1 | []Yes []No |
| ISn 1.18 | Octet 5b bit 2, flow control on reception | O | | []Yes []No |
| | 1. Cannot accept data with flow control mechanism | O | 0 | []Yes []No |
| | 2. Can accept data with flow control mechanism | O | 1 | []Yes []No |
| | Octet 5b, for V.120 rate adaption | N/A | | |
| ISn 1.25 | Octet 5c bits 6 and 7, number of stop bits? | O | | []Yes []No |
| | 1. Not used | O | 0 | []Yes []No |
| | 2. 1 bit | O | 1 | []Yes []No |
| | 3. 1,5 bits | O | 2 | []Yes []No |
| | 4. 2 bits | O | 3 | []Yes []No |
| ISn 1.26 | Octet 5c bits 4 and 5, number of data bits excluding parity | O | | []Yes []No |
| | 1. Not used | O | 0 | []Yes []No |
| | 2. 5 bits | O | 1 | []Yes []No |
| | 3. 7 bits | O | 2 | []Yes []No |
| | 4. 8 bits | O | 3 | []Yes []No |
| ISn 1.27 | Octet 5c bits 1 to 3, parity information | O | | []Yes []No |
| | 1. Odd | O | 0 | []Yes []No |
| | 2. Even | O | 2 | []Yes []No |
| | 3. None | O | 3 | []Yes []No |
| | 4. Forced to 0 | O | 4 | []Yes []No |
| | 5. Forced to 1 | O | 5 | []Yes []No |
| ISn 1.28 | Octet 5d bit 7, duplex mode | O | | []Yes []No |
| | 1. Half duplex | O | 0 | []Yes []No |
| | 2. Full duplex | O | 1 | []Yes []No |
| ISn 1.29 | Octet 5d bits 1 to 6, modem type | O | | []Yes []No |
| | 1. V.21 | O | 17 | []Yes []No |
| | 2. V.22 | O | 18 | []Yes []No |
| | 3. V.22 bis | O | 19 | []Yes []No |
| | 4. V.23 | O | 20 | []Yes []No |
| | 5. V.26 | O | 21 | []Yes []No |
| | 6. V.26 bis | O | 22 | []Yes []No |
| | 7. V.26 ter | O | 23 | []Yes []No |
| | 8. V.27 | O | 24 | []Yes []No |
| | 9. V.27 bis | O | 25 | []Yes []No |
| | 10. V.27 ter | O | 26 | []Yes []No |
| | 11. V.29 | O | 27 | []Yes []No |

| Item | Information element field | Status | Values | Support |
|-----------|--|--------|--------|--------------|
| | 12. V.32 | O | 28 | []Yes []No |
| ISn 1.30 | Octet 6 bits 1 to 5, user information layer 2 protocol | O | | []Yes []No |
| | 1. Q.921 | O | 2 | []Yes []No |
| | 2. X.25 link level | O | 6 | []Yes []No |
| ISn 1.31 | Octet 7 bits 1 to 5, user information layer 3 protocol | O | | []Yes []No |
| | 1. Q.931 [5] | O | 2 | []Yes []No |
| | 2. X.25 packet layer | O | 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.112: 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.113: 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) 1. Unknown 2. International number 3. National number 4. Network specific number 5. Subscriber number 6. Abbreviated number | MTn 19-IE6 NOT MTn 19-IE6 | M N/A O O O O O X | 0 1 2 3 4 6 | []Yes []No []N/A []Yes []No []Yes []No []Yes []No []Yes []No []Yes []No []Yes []No |
| CGPtn 1.2 | NPI (octet 3) 1. Unknown 2. ISDN/telephony numbering plan 3. Data numbering plan 4. Telex numbering plan 5. National standard numbering plan 6. Private numbering plan | MTn 19-IE6 NOT MTn 19-IE6 | M N/A O O O O O O | 0 1 3 4 8 9 | []Yes []No []N/A []Yes []No []Yes []No []Yes []No []Yes []No []Yes []No []Yes []No |
| CGPtn 1.3 | Presentation indicator (octet 3a) 1. Presentation allowed 2. Presentation restricted 3. Number not available due to interworking | MTn 19-IE6 NOT MTn 19-IE6 | O N/A O O O | 0 1 2 | []Yes []No []N/A []Yes []No []Yes []No []Yes []No |
| CGPtn 1.4 | Screening indicator (octet 3a) 1. User-provided, not screened 2. User-provided, verified and passed 3. User-provided, verified and failed 4. Network provided | MTn 19-IE6 NOT MTn 19-IE6 | O N/A O O X O | 0 1 2 3 | []Yes []No []N/A []Yes []No []Yes []No []Yes []No []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.114: 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.115: 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 | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | 1. Unknown | | O | 0 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | 2. International number | | O | 1 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | 3. National number | | O | 2 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | 4. Network specific number | | O | 3 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | 5. Subscriber number | | O | 4 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| CDP1tn 1.2 | 6. Abbreviated number | | O | 6 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | NPI (octet 3) | | M | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | 1. Unknown | | O | 0 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | 2. ISDN/telephony numbering plan | | O | 1 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | 3. Data numbering plan | | O | 3 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | 4. Telex numbering plan | | O | 4 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| CDP1tn 1.3 | 5. National standard numbering plan | | O | 8 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | 6. Private numbering plan | | O | 9 | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | Number digits (octet 4 onwards) | | O | Up to 20 digits; max. value supported: | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Comments: | | | | | |

Table A.116: 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 | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| CDP2rn 1.2 | NPI (octet 3) | | M | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| CDP2rn 1.3 | Number digits (octet 4 onwards) | | M | Up to 20 digits; max. value supported: | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Comments: | | | | | |

Table A.117: 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) 1. Unknown 2. International number 3. National number 4. Network specific number 5. Subscriber number 6. Abbreviated number | MTn 8-IE4 NOT MTn 8-IE4 | M N/A O O O O O | 0 1 2 3 4 6 | []Yes []No []N/A []Yes []No []Yes []No []Yes []No []Yes []No []Yes []No |
| CDP2tn 1.2 | NPI (octet 3) 1. Unknown 2. ISDN/telephony numbering plan 3. Data numbering plan 4. Telex numbering plan 5. National standard numbering plan 6. Private numbering plan | MTn 8-IE4 NOT MTn 8-IE4 | M N/A O O O O O | 0 1 3 4 8 9 | []Yes []No []N/A []Yes []No []Yes []No []Yes []No []Yes []No []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: | | | | | |

Annex B (informative): Differences from PICS proforma for ETS 300 102-1

B.1 Introduction

This annex identifies the differences between the PICS proforma contained in annex A of the present document and the PICS proforma for the earlier version of the DSS1 protocol defined in ETS 300 102-1 (see bibliography). In the context of this annex, the PICS proforma for the earlier version of the DSS1 protocol are referred to as the "earlier PICS proforma", and the PICS proforma contained in annex A of the present document is referred to as the "combined PICS proforma".

B.2 Identification of relevant ETSS

The earlier version of the DSS1 protocol is defined in ETS 300 102-1 (see bibliography).

B.3 Differences

- 1) In the earlier PICS proforma, proforma for the user role and the network role were provided in separate standards. In the present document, the two roles are covered in a single proforma (albeit in two separate sets of tables). One consequence of this is the introduction of the new PICS questions R 2.1 and R 2.2 relating to the role being performed by the IUT. A second consequence is the addition of a suffix, "u" or "n" to the item references to indicate whether the item applies to the user role or the network role.
- 2) In the earlier PICS proforma, proforma for the Basic access and the Primary rate access were provided in separate standards. In the present document, the two accesses are covered in a single proforma. One consequence of this is the introduction of the new PICS questions R 6.1 and R 6.2 relating to the interfaces supported by the IUT.
- 3) In the earlier PICS proforma, variations between the procedures applicable at the coincident S and T reference point and the procedures applicable at the T reference point were taken care of by including the condition as part of the PICS question. In the combined proforma, specific questions have been included (R 3.1 and R 3.2) to deal with this aspect.
- 4) Backwards compatibility with the numbering system for items in the earlier PICS proforma has been retained as far as possible (see clause A.1.2). However, in the tables for subsidiary capabilities many new questions have been added. Questions with item references of the form "SC xx", where xx is less than 50 are in general backwards compatible with the earlier PICS proforma. Questions with item references where xx is greater than 100 are new questions that have no equivalent in the earlier PICS proforma.
- 5) The statii "N/A 1", "N/A 2", and "N/A", used in the earlier PICS proforma, have been deleted. Where appropriate, the ISO 9646-7 statii "X" (prohibited or eXcluded) and "I" (Irrelevant or out-of-scope) have been used instead.
- 6) The information element tables from the earlier PICS proforma have been replaced by a more detailed set of PDU parameter tables.
- 7) The questions relating to call states have been removed.
- 8) The questions relating to the structure of the HLC and LLC information elements have been removed for the network.
- 9) The questions relating to the structure of the Channel Identification information element have been removed. Questions about channel selection have been added in the subsidiary capabilities tables.

Annex C (informative): Bibliography

- ETSI ETS 300 102-1 (1990): "Integrated Services Digital Network (ISDN); User-network interface layer 3; Specifications for basic call control".
- ETSI ETS 300 286-1 (V1.2.4): "Integrated Services Digital Network (ISDN); User-to-User Signalling (UUS) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".

History

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