This specification *describes the situation of the Proximus network and services. It will be subject to modifications for corrections or when the network or the services will be modified. Please take into account that modifications can appear at any moment. Therefore, the reader is requested to check regularly with the most recent list of available specifications that the document in one's possession is the latest version.*

Proximus can't be held responsible for any damages due to the use of a version of this specification which is not included in the most recent list of available specifications (list always available with a request to the e-mail address mentioned in the underneath paragraph).

Whilst every care has been taken in the preparation and publication of ***this document****, errors in content, typographical or otherwise, may occur. If you have remarks concerning its accuracy, please send a mail to the following address Proximus.uni.spec@Proximus.be and your remark will be transmitted to the right Proximus department.*

The User Network Interface Specifications published via Internet are available for your information but have no official value. The only documents with an official value are printed on a specific paper.

If you want ***to get an official version of this User Network Interface Specification****, please order it by sending your request by mail to Proximus.uni.spec@Proximus.be*

Euro-ISDN (Basic Call)

Table of Contents

0. DOCUMENT HISTORY

Every update of this document results in a complete new version with new version number and release date.

Version	Date	Main or important changes since previous version
2.2	08 FEB 1999	…
2.3	24 JAN 2003	• **General**: New applicable software versions S12 Pack 8 and EWSD V16B • **PICS S12 for Layer 3**: Value of timer T309 has been changed • **PICS EWSD for Layer 3**: Note added related to network-timer T302

LAYER 2

PART 1

ALCATEL

PICS proforma for ETS 300 402-2 on point-to-point BA

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 300 402-2 [1] may provide information in a standardized manner.
The PICS proforma is subdivided into clauses as follows:
A.1: instructions for completing the various parts of the PICS proforma;
A.2: identification of the implementation;
A.3: identification of the protocol to which this PICS proforma applies;
A.4: explanation of the PICS proforma tables;
A.5: global statement of conformance;
A.6: questions to determine roles;
A.7: questions for the user role; and A.8:
questions for the network role.

A.1.2 Symbols, abbreviations and conventions

The PICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [3].

Item column:

The item column contains a unique reference (a mnemonic plus a number) for each item within the PICS 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 proformas both these cases were identified by the same mnemonic (e.g. MC).

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

Conditions for status column:

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

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The following notations, defined in ISO/IEC 9646-7 [3], are used for the status column:

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

NOTE: To support a capability means that the capability is implemented in conformance to ETS 300 402-2 [1].

Reference column:

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[ ] Yes [ ] No	Tick "Yes" if item is supported, tick "No" if item is not supported.
[ ] N/A	Tick "N/A" if the item is "not applicable".

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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

16/12/2002 .....

A.2.2 Implementation Under Test (IUT) identification

IUT name:
A1000S12 .....
.....
IUT version:
PACK 8.....

A.2.3 System Under Test (SUT) identification

SUT name:
A1000S12 .....
.....
Hardware configuration:
BA
.....
.....
Operating system:
S12 .....
.....

A.2.4 Product supplier

Name:
ALCATEL BELL n.v. .....
E-mail address:
http://ALCATEL.be .....
Address:
Francis Wellesplein 1
B-2018 Antwerpen .....
België. .....
.....
Telephone number:
+32 3 2404011 .....
Facsimile number:
+32 3 2409999 .....
Additional information:
.....
.....
.....

A.2.5 Client

Name:
PROXIMUS.....
E-mail address:
.....
Address:
.....
.....
.....
Telephone number:
.....
Facsimile number:
.....
Additional information:
.....
.....
.....

A.2.6 PICS contact person

Name:
Kazimierz Bohdanowicz.....

Address:
Francis Wellesplein 1
B-2018 Antwerpen .....
België. .....
.....
.....
Telephone number:
32/3/2409749 .....
Facsimile number:
+32 3 2409999 .....
Additional information:

A.3 IDENTIFICATION OF THE PROTOCOL TO WHICH THIS PICS PROFORMA APPLIES

This PICS proforma applies to the following standard:

ETS 300 402-2 (1995): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Data link layer; Part 2: General protocol specification [ITU-T Recommendation Q.921 (1993), modified]".

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 2 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 2 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.

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.5 GLOBAL STATEMENT OF CONFORMANCE

The implementation described in this PICS meets all the mandatory requirements of the referenced standard ?

[X] **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	Conditions for status	Status	Reference	Support
R1	not used				
R 2.1	the user role		O.1		[ ]Yes [X]No
R 2.2	the network role		O.1		[X]Yes [ ]No
	Type of implementation				
R3	not used not				
R4	used not used				
R5	basic access				
R 6.1	primary rate access		O.2		[X]Yes [ ]No [
R 6.2	Support of one and only one of these options is required.		O.2		]Yes [X]No
O.1	Support of one and only one of these options is required.				
O.2					
Comments:					

A.8 NETWORK

The tables provided in this subclause need only to be completed for network implementations.
Prerequisite: R 2.2

A.8.1 Major capabilities

Each question in table A.12 refers to a major function of the protocol. Answering "Yes" to a particular question states that the implementation supports all the mandatory procedures for that function defined in the referenced clauses and subclauses of ETS 300 402-2 [1]. Answering "No" to a particular question states that the implementation does not support that function of the protocol.

Table A.12: Major capabilities - network

Item	Major capability: does the IUT support...	Conditions for status	Status	Reference	Support
	General				
MCn 1.1	configurations using more than one Terminal Endpoint Identifier (TEI) ?		O.8	Annex A	[ ]Yes [X]No
MCn 1.2	point-to-point configurations using only one TEI value ?		O.8	Annex A	[X]Yes [ ]No
	Procedures for unacknowledged information transfer				
MCn 2.1	the unacknowledged information transfer service in MCn the broadcast data link (using TEI value 127) ?	3 NOT MCn 3	M O	5.2	[ ]Yes [X]No
MCn 2.2	the unacknowledged information transfer service in a point-to-point data link (using a TEI value other than 127) ?		O	5.2, 5.2.1	[ ]Yes [X]No
	TEI management procedure				
MCn 3	TEI management procedures ?	MCn 1.1 MCn 1.2	M O	5.3 Annex A	[ ]Yes [X]No
MCn 3.1.1	the automatic TEI assignment procedures ?	MCn 3 NOT MCn 3	M N/A	5.3.2	[ ]Yes [ ]No [X]N/A
MCn 3.1.2	the non-automatic TEI assignment procedures ?	MCn 3 NOT MCn 3	M N/A	5.3.2	[ ]Yes [ ]No [X]N/A
MCn 3.2	the TEI check procedures ?	MCn 3 NOT MCn 3	M N/A	5.3.3	[ ]Yes [ ]No [X]N/A
MCn 3.3	the TEI removal procedures ?	MCn 3 NOT MCn 3	M N/A	5.3.4	[ ]Yes [ ]No [X]N/A
MCn 3.4	the TEI identity verify procedures ?	MCn 3 NOT MCn 3	O N/A	5.3.5	[ ]Yes [ ]No [X]N/A
	Initialization of data link layer parameters				
MCn 4	the procedures for initialization of the data link parameters to the default values ?		M	5.4	[X]Yes [ ]No
	Multiple frame operations				
MCn 5	multiple frame operations ?		M	5.5	[X]Yes [ ]No MCn
5.1.1	the self initiated establishment of multiple frame operation ?		O	5.5.1, 5.5.5, 5.5.6	[X]Yes [ ]No
MCn 5.1.2	the peer initiated establishment of multiple frame operation ?		M	5.5.1, 5.5.5, 5.5.6	[X]Yes [ ]No
MCn 5.2.1	the self initiated termination of multiple frame operation ?		O	5.5.3, 5.5.5, 5.5.6	[X]Yes [ ]No
MCn 5.2.2	the peer initiated termination of multiple frame operation?		M	5.5.3, 5.5.5, 5.5.6	[X]Yes [ ]No
MCn 5.3	information transfer in multiple frame operation ?		M	5.6	[X]Yes [ ]No
MCn 5.4	the re-establishment of multiple frame operation ?		M	5.7	[X]Yes [ ]No
MCn 5.5	the data link layer monitor function ?		O	5.10	[X]Yes [ ]No
O.8	Support of one and only one of these options is required.				

Comments:

A.8.2 Subsidiary capabilities

Indicating support for an item in table A.13 states that the implementation supports special cases or options within a major capability.

Table A.13: Subsidiary capabilities - network

Item	Subsidiary capability: does the IUT support...	Conditions for status	Status	Reference	Support
SCn 1	not used **Multiple frame operations**				
SCn 2	the transmission of I frames in the own receiver busy condition ?		O	5.6.1	[X]Yes [ ]No
Comments:					

A.8.3 Protocol data units

The tables in this subclause ask questions related to the support of PDUs in the network role.

A.8.3.1 Frames received by the network

Indicating support for an item in table A.14 states that the implementation has the ability to recognize the frame 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 300 402-2 [1].

Table A.14: Frames received - network

Item	Message: does the IUT support the receipt of a frame of status type...	Conditions for	Status	Reference	Support
	Information transfer (I) format				
FRn 1	I command ?		M	3.6.2, 5.6	[X]Yes [ ]No
	Supervisory (S) format				
FRn 2	RR command ?		M	3.6.6, 5.6, 5.10	[X]Yes [ ]No
FRn 3	RR response ?		M	3.6.6, 5.6, 5.10	[X]Yes [ ]No
FRn 4	RNR command ?		M	3.6.8, 5.6, 5.10	[X]Yes [ ]No
FRn 5	RNR response ?		M	3.6.8, 5.6, 5.10	[X]Yes [ ]No
FRn 6	REJ command ?		M	3.6.7, 5.6, 5.8.1	[X]Yes [ ]No
FRn 7	REJ response ?		M	3.6.7, 5.6, 5.8.1	[X]Yes [ ]No
	Unnumbered (U) format				
FRn 8	SABME command ?		M	3.6.3, 5.5.1, 5.7	[X]Yes [ ]No
FRn 9	DISC command ?		M	3.6.4, 5.5.3	[X]Yes [ ]No
FRn 10	UA response ?		M	3.6.9, 5.5	[X]Yes [ ]No
FRn 11	DM response ?		M	3.6.10, 5.5	[X]Yes [ ]No
FRn 12	UI command ?	MCn 2.1 OR	M	3.6.5, 5.2.3, 5.3	[ ]Yes [ ]No
FRn 13	FRMR response ?	MCn 2.2 NOT (MCn 2.1 OR MCn 2.2)	N/A M	3.6.11, 5.8.6	[X]N/A [X]Yes [ ]No
FRn 14	XID command ?		M	3.6.12	[X]Yes [ ]No
FRn 15	XID response ?		M	3.6.12	[X]Yes [ ]No
Comments:					

A.8.3.2 Frames transmitted by the network

Indicating support for an item in table A.15 states that the implementation has the ability to transmit the frame listed in that item.

Table A.15: Frames transmitted - network

Item	Message: does the IUT support the transmission of a status frame of type...	Conditions for status	Status	Reference	Support
	Information transfer (I) format				
FTn 1	I command ?		M	3.6.2, 5.6	[X]Yes [ ]No
	Supervisory (S) format				
FTn 2	RR command ?		M	3.6.6, 5.6, 5.10	[X]Yes [ ]No
FTn 3	RR response ?		M	3.6.6, 5.6, 5.10	[X]Yes [ ]No
FTn 4	RNR command ?		M	3.6.8, 5.6, 5.10	[X]Yes [ ]No
FTn 5	RNR response ?		M	3.6.8, 5.6, 5.10	[X]Yes [ ]No
FTn 6	REJ command ?		M	3.6.7, 5.6, 5.8.1	[X]Yes [ ]No
FTn 7	REJ response ?		M	3.6.7, 5.6, 5.8.1	[X]Yes [ ]No
	Unnumbered (U) format				
FTn 8	SABME command ?	M 3.6.3,	5.5.1, 5.7	[X]Yes [ ]No FTn 9	DISC
command ?	MCn	5.2.1 M NOT MCn 5.2.1	3.6.4, 5.5.3 O	[X]Yes [ ]No	
FTn 10	UA response ?		M	3.6.9, 5.5	[X]Yes [ ]No
FTn 11	DM response ?		M	3.6.10, 5.5	[X]Yes [ ]No
FTn 12	UI command ?	MCn 2.1 OR MCn 2.2 NOT (MCn 2.1 OR MCn 2.2)	M N/A	3.6.5, 5.2.2, 5.3	[ ]Yes [ ]No [X]N/A
FTn 13	FRMR response ?		X	3.6.11, 5, 5.8.6	[ ]Yes [X]No
Comments:					

A.8.4 PDU parameters

A.8.4.1 Service data units

A.8.4.1.1 Service data units received by the network

The tables in this subclause ask questions related to the support of SDU parameters in UI frames received and transmitted by the IUT in the network role.

Table A.16: SDUs received in UI frames - network

Item	Does the IUT support in the UI frame information field the interpretation of ...	Conditions for status	Status	Reference	Support
PRn 1	Layer 3 messages ?	FRn 12 NOT FRn 12	O N/A	5.2	[ ]Yes [ ]No [X]N/A
	Layer management messages				
PRn 2.1	Identity request ?	MCn 3.1.1 NOT MCn 3.1.1	M N/A	5.3.2	[ ]Yes [ ]No [X]N/A
PRn 2.2	Identity check response ?	MCn 3.2 NOT MCn 3.2	M N/A	5.3.3	[ ]Yes [ ]No [X]N/A
PRn 2.3	Identity verify ?	MCn 3.4 NOT MCn 3.4	M N/A	5.3.5	[ ]Yes [ ]No [X]N/A
Comments:					

A.8.4.1.2 Service data units transmitted by the network

Table A.17: SDUs transmitted in UI frames - network

Item	Does the IUT support in the UI frame information field the inclusion of ...	Conditions for status	Status	Reference	Support
PTn 1	Layer 3 messages ?	FTn 12 NOT FTn 12	O N/A	5.2	[ ]Yes [ ]No [X]N/A
	Layer management messages				
PTn 2.1	Identity assign ?	MCn 3.1.1 NOT MCn 3.1.1	M N/A	5.3.2	[ ]Yes [ ]No [X]N/A
PTn 2.2	Identity denied ?	MCn 3.1.1 NOT MCn 3.1.1	M N/A	5.3.2	[ ]Yes [ ]No [X]N/A
PTn 2.3	Identity check request ?	MCn 3.2 NOT MCn 3.2	M N/A	5.3.3	[ ]Yes [ ]No [X]N/A
PTn 2.4	Identity remove ?	MCn 3.3 NOT MCn 3.3	M N/A	5.3.4	[ ]Yes [ ]No [X]N/A

Comments:

A.8.4.2 Address field variables

The tables in this subclause ask questions related to the support of the values of certain fields of the address field received and transmitted by the IUT in the network role.

Table A.18: SAPI values supported - network

Item	Does the IUT support the ...	Conditions for status	Status	Reference	Support
SAPn 1	SAPI value 0 ?		O.9	3.3.3	[X]Yes [ ]No
SAPn 2	SAPI value 12 ?		O.9	3.3.3	[ ]Yes [X]No
SAPn 3	SAPI value 16 ?		O.9	3.3.3	[X]Yes [ ]No
SAPn 4	SAPI value 63 ?	MCn 3 NOT MCn 3	M N/A	3.3.3, 5.3.1	[ ]Yes [ ]No [X]N/A
O.9	Support of at least one of these options is required.				

Comments:

Table A.19: TEI values supported - network

Item	Does the IUT support the...	Conditions for status	Status	Reference	Support
TEIn 1	TEI value 0 exclusively ?	MCn 1.2 NOT MCn 1.2	M N/A	3.3.4.2, Annex A	[X]Yes [ ]No [ ]N/A
TEIn 2	TEI values in the range from 0 to 63 ?	MCn 3.1.2 NOT MCn 3.1.2	M N/A	3.3.4.2	[ ]Yes [ ]No [X]N/A comment 1
TEIn 3	TEI values in the range from 64 to 126 ?	MCn 3.1.1 NOT MCn 3.1.1	M N/A	3.3.4.2	[ ]Yes [ ]No [X]N/A
TEIn 4	TEI value 127 ?	MCn 2.1 NOT MCn 2.1	M N/A	3.3.4.1	[ ]Yes [ ]No [X]N/A

Comments:
1. TEI values in this range are supported for D-channel PMBS

A.8.5 Timers

Indicating support for an item in table A.20 states that the implementation has a timer that operates in accordance with the description in subclause 5.9 and the relevant behaviour in ETS 300 402-2 [1].

Table A.20: Timers - network

Item	Timer: does the IUT support...	Conditions for status	Status	Reference	Support	Supported value(s)
TMn 1	T200 (default value 1 s) ?		M	5.9.1	[X]Yes [ ]No	1s
TMn 2	T201 (default value 1 s) ?	MCn 1.1 MCn 1.2	M N/A	5.9.6	[ ]Yes [ ]No [X]N/A	
TMn 3	T203 (default value 10 s) ?	MCn 5.5 NOT MCn 5.5	M N/A	5.9.8	[X]Yes [ ]No 10 s [ ]N/A	

Comments:

A.8.6 System parameters

Indicating support for an item in table A.21 states that the implementation has implemented the system parameter.

Table A.21: Parameters - network

Item	System parameter: does the IUT support...	Conditions for status	Status	Reference	Support	Supported value(s)
SPn 1	N200 (default value 3) ?		M	5.9.2	[X]Yes [ ]No	3
SPn 2	N201 (default value 260) ?		M	5.9.3	[X]Yes [ ]No	260
SPn 3	k (default values 1, 3, 7) ?		M	5.9.5	[X]Yes [ ]No	1 for SAPI=0 3 for SAPI=16

Comments:

PICS proforma for ETS 300 402-2 on point-to-multipoint BA

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X	eXcluded or prohibited - there is a requirement not to use this capability in a given context.

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A.2.1 Date of the statement

16/12/2002.....

A.2.2 Implementation Under Test (IUT) identification

IUT name:
A1000S12.....
.....
IUT version:
PACK 8.....

A.2.3 System Under Test (SUT) identification

SUT name:
A1000S12.....
.....
Hardware configuration:
BA
.....
.....
Operating system:
S12 .....
.....

A.2.4 Product supplier

Name:
ALCATEL BELL n.v. .....
E-mail address:
http://ALCATEL.be .....
Address:
Francis Wellesplein 1
B-2018 Antwerpen.....
België.....
.....
Telephone number:
+32 3 2404011 .....
Facsimile number:
+32 3 2409999 .....
Additional information:
.....
.....
.....

A.2.5 Client

Name:
PROXIMUS .....
E-mail address:
.....
Address:
.....
.....
.....
Telephone number:
.....
Facsimile number:
.....
Additional information:
.....
.....
.....

A.2.6 PICS contact person

Name:
KAZIMIERZ BOHDANOWICZ.....
E-mail address:
.....
Address:
Francis Wellesplein 1
B-2018 Antwerpen.....
België.....
.....
.....
Telephone number:
32/3/2409749 .....
Facsimile number:
+32 3 2409999 .....
Additional information:

A.3 IDENTIFICATION OF THE PROTOCOL TO WHICH THIS PICS PROFORMA APPLIES

This PICS proforma applies to the following standard:

ETS 300 402-2 (1995): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Data link layer; Part 2: General protocol specification [ITU-T Recommendation Q.921 (1993), modified]".

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 2 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 2 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.

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.5 GLOBAL STATEMENT OF CONFORMANCE

The implementation described in this PICS meets all the mandatory requirements of the referenced standard ?

[X] **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	Conditions for status	Status	Reference	Support
R1	not used				
R 2.1	the user role		O.1		[ ]Yes [X]No
R 2.2	the network role		O.1		[X]Yes [ ]No
	Type of implementation				
R3	not used not				
R4	used not used				
R5	basic access				
R 6.1	primary rate access		O.2		[X]Yes [ ]No [
R 6.2	Support of one and only one of these options is required.		O.2		]Yes [X]No
O.1	Support of one and only one of these options is required.				
O.2					
Comments:					

A.8 NETWORK

The tables provided in this subclause need only to be completed for network implementations.
Prerequisite: R 2.2

A.8.1 Major capabilities

Each question in table A.12 refers to a major function of the protocol. Answering "Yes" to a particular question states that the implementation supports all the mandatory procedures for that function defined in the referenced clauses and subclauses of ETS 300 402-2 [1]. Answering "No" to a particular question states that the implementation does not support that function of the protocol.

Table A.12: Major capabilities - network

Item	Major capability: does the IUT support...	Conditions for status	Status	Reference	Support
	General				
MCn 1.1	configurations using more than one Terminal Endpoint Identifier (TEI) ?		O.8	Annex A	[X]Yes [ ]No
MCn 1.2	point-to-point configurations using only one TEI value ?		O.8	Annex A	[ ]Yes [X]No
	Procedures for unacknowledged information transfer				
MCn 2.1	the unacknowledged information transfer service in MCn the broadcast data link (using TEI value 127) ?	3 NOT MCn 3	M O	5.2	[X]Yes [ ]No
MCn 2.2	the unacknowledged information transfer service in a point-to-point data link (using a TEI value other than 127) ?		O	5.2, 5.2.1	[X]Yes [ ]No
	TEI management procedure				
MCn 3	TEI management procedures ?	MCn 1.1 MCn 1.2	M O	5.3 Annex A	[X]Yes [ ]No
MCn 3.1.1	the automatic TEI assignment procedures ?	MCn 3 NOT MCn 3	M N/A	5.3.2	[X]Yes [ ]No [ ]N/A
MCn 3.1.2	the non-automatic TEI assignment procedures ?	MCn 3 NOT MCn 3	M N/A	5.3.2	[X]Yes [ ]No [ ]N/A
MCn 3.2	the TEI check procedures ?	MCn 3 NOT MCn 3	M N/A	5.3.3	[X]Yes [ ]No [ ]N/A
MCn 3.3	the TEI removal procedures?	MCn 3 NOT MCn 3	M N/A	5.3.4	[X]Yes [ ]No [ ]N/A
MCn 3.4	the TEI identity verify procedures ?	MCn 3 NOT MCn 3	O N/A	5.3.5	[X]Yes [ ]No [ ]N/A
	Initialization of data link layer parameters				
MCn 4	the procedures for initialization of the data link parameters to the default values ?		M	5.4	[X]Yes [ ]No
	Multiple frame operations				
MCn 5	multiple frame operations ?		M	5.5	[X]Yes [ ]No
MCn 5.1.1	the self initiated establishment of multiple frame operation ?		O	5.5.1, 5.5.5, 5.5.6	[X]Yes [ ]No
MCn 5.1.2	the peer initiated establishment of multiple frame operation ?		M	5.5.1, 5.5.5, 5.5.6	[X]Yes [ ]No
MCn 5.2.1	the self initiated termination of multiple frame operation ?		O	5.5.3, 5.5.5, 5.5.6	[X]Yes [ ]No
MCn 5.2.2	the peer initiated termination of multiple frame operation ?		M	5.5.3, 5.5.5, 5.5.6	[X]Yes [ ]No
MCn 5.3	information transfer in multiple frame operation?		M	5.6	[X]Yes [ ]No
MCn 5.4	the re-establishment of multiple frame operation ?		M	5.7	[X]Yes [ ]No
MCn 5.5	the data link layer monitor function ?		O	5.10	[X]Yes [ ]No
O.8	Support of one and only one of these options is required.				

Comments:

A.8.2 Subsidiary capabilities

Indicating support for an item in table A.13 states that the implementation supports special cases or options within a major capability.

Table A.13: Subsidiary capabilities - network

Item	Subsidiary capability: does the IUT support...	Conditions for status	Status	Reference	Support
SCn 1	not used				
	Multiple frame operations				
SCn 2	the transmission of I frames in the own receiver busy condition ?		O	5.6.1	[X]Yes [ ]No
Comments:					

A.8.3 Protocol data units

The tables in this subclause ask questions related to the support of PDUs in the network role.

A.8.3.1 Frames received by the network

Indicating support for an item in table A.14 states that the implementation has the ability to recognize the frame 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 300 402-2 [1].

Table A.14: Frames received - network

Item	Message: does the IUT support the receipt of a frame of type...	Conditions for status	Status	Reference	Support
	Information transfer (I) format				
FRn 1	I command?		M	3.6.2, 5.6	[X]Yes [ ]No
	Supervisory (S) format				
FRn 2	RR command ?		M	3.6.6, 5.6, 5.10	[X]Yes [ ]No
FRn 3	RR response ?		M	3.6.6, 5.6, 5.10	[X]Yes [ ]No
FRn 4	RNR command ?		M	3.6.8, 5.6, 5.10	[X]Yes [ ]No
FRn 5	RNR response ?		M	3.6.8, 5.6, 5.10	[X]Yes [ ]No
FRn 6	REJ command ?		M	3.6.7, 5.6, 5.8.1	[X]Yes [ ]No
FRn 7	REJ response ?		M	3.6.7, 5.6, 5.8.1	[X]Yes [ ]No
	Unnumbered (U) format				
FRn 8	SABME command ?	M	3.6.3, 5.5.1, 5.7		[X]Yes [ ]No
FRn 9	DISC command ?	M	3.6.4, 5.5.3	[X]Yes [ ]No FRn 10	UA response
?	M	3.6.9, 5.5	[X]Yes [ ]No	FRn 11	DM response
?	M	3.6.10, 5.5	[X]Yes [ ]No	FRn 12	UI command
?	MCn 2.1 OR	M MCn 2.2 NOT (MCn 2.1 OR MCn 2.2)	3.6.5, 5.2.3, 5.3 N/A		[X]Yes [ ]No [ ]N/A
FRn 13	FRMR response ?		M	3.6.11, 5.8.6	[X]Yes [ ]No
FRn 14	XID command ?		M	3.6.12	[X]Yes [ ]No
FRn 15	XID response ?		M	3.6.12	[X]Yes [ ]No
Comments:					

A.8.3.2 Frames transmitted by the network

Indicating support for an item in table A.15 states that the implementation has the ability to transmit the frame listed in that item.

Table A.15: Frames transmitted - network

Item	Message: does the IUT support the transmission of a frame of type...	Conditions for status	Status	Reference	Support
	Information transfer (I) format				
FTn 1	I command ?		M	3.6.2, 5.6	[X]Yes [ ]No
	Supervisory (S) format				
FTn 2	RR command ?		M	3.6.6, 5.6, 5.10	[X]Yes [ ]No
FTn 3	RR response ?		M	3.6.6, 5.6, 5.10	[X]Yes [ ]No
FTn 4	RNR command ?		M	3.6.8, 5.6, 5.10	[X]Yes [ ]No
FTn 5	RNR response ?		M	3.6.8, 5.6, 5.10	[X]Yes [ ]No
FTn 6	REJ command ?		M	3.6.7, 5.6, 5.8.1	[X]Yes [ ]No
FTn 7	REJ response ?		M	3.6.7, 5.6, 5.8.1	[X]Yes [ ]No
	Unnumbered (U) format				
FTn 8	SABME command ?	M	3.6.3, 5.5.1, 5.7		[X]Yes [ ]No
FTn 9	DISC command ?	MCn 5.2.1	M	3.6.4, 5.5.3	[X]Yes [ ]No
		NOT MCn 5.2.1	O		
FTn 10	UA response ?	M	3.6.9, 5.5	[X]Yes [ ]No FTn 11	DM response
?	M	3.6.10, 5.5	[X]Yes [ ]No FTn 12		UI command
?	MCn 2.1 OR	M	3.6.5, 5.2.2, 5.3		[X]Yes [ ]No
		MCn 2.2			[ ]N/A
		NOT (MCn 2.1 OR MCn 2.2)	N/A		
FTn 13	FRMR response ?		X	3.6.11, 5, 5.8.6	[ ]Yes [X]No

Comments:

A.8.4 PDU parameters

A.8.4.1 Service data units

A.8.4.1.1 Service data units received by the network

The tables in this subclause ask questions related to the support of SDU parameters in UI frames received and transmitted by the IUT in the network role.

Table A.16: SDUs received in UI frames - network

Item	Does the IUT support in the UI frame information field the interpretation of ...	Conditions for status	Status	Reference	Support
PRn 1	Layer 3 messages ?	FRn 12	O	5.2	[ ]Yes [X]No
		NOT FRn 12	N/A		[ ]N/A
	Layer management messages				
PRn 2.1	Identity reques t?	MCn 3.1.1	M	5.3.2	[X]Yes [ ]No
		NOT MCn 3.1.1	N/A		[ ]N/A
PRn 2.2	Identity check response ?	MCn 3.2	M	5.3.3	[X]Yes [ ]No
		NOT MCn 3.2	N/A		[ ]N/A
PRn 2.3	Identity verify ?	MCn 3.4	M	5.3.5	[X]Yes [ ]No
		NOT MCn 3.4	N/A		[ ]N/A

Comments:

A.8.4.1.2 Service data units transmitted by the network

Table A.17: SDUs transmitted in UI frames - network

Item	Does the IUT support in the UI frame information field the inclusion of ...	Conditions for status	Status	Reference	Support
PTn 1	Layer 3 messages ?	FTn 12	O	5.2	[X]Yes [ ]No
		NOT FTn 12	N/A		[ ]N/A
	Layer management messages				
PTn 2.1	Identity assign ?	MCn 3.1.1	M	5.3.2	[X]Yes [ ]No
		NOT MCn 3.1.1	N/A		[ ]N/A
PTn 2.2	Identity denied ?	MCn 3.1.1	M	5.3.2	[X]Yes [ ]No
		NOT MCn 3.1.1	N/A		[ ]N/A
PTn 2.3	Identity check request ?	MCn 3.2	M	5.3.3	[X]Yes [ ]No
		NOT MCn 3.2	N/A		[ ]N/A
PTn 2.4	Identity remove ?	MCn 3.3	M	5.3.4	[X]Yes [ ]No
		NOT MCn 3.3	N/A		[ ]N/A

Comments:

A.8.4.2 Address field variables

The tables in this subclause ask questions related to the support of the values of certain fields of the address field received and transmitted by the IUT in the network role.

Table A.18: SAPI values supported - network

Item	Does the IUT support the ...	Conditions for status	Status	Reference	Support
SAPn 1	SAPI value 0 ?	O.9	3.3.3	[X]Yes [ ]No SAPn 2	SAPI value
12 ?	O.9	3.3.3	[ ]Yes [X]No	SAPn 3	SAPI value
16 ?	O.9	3.3.3	[X]Yes [ ]No	SAPn 4	SAPI value
63 ?	MCn 3	M	3.3.3, 5.3.1	[X]Yes [ ]No	
		NOT MCn 3	N/A		[ ]N/A

O.9 Support of at least one of these options is required.

Comments:

Table A.19: TEI values supported - network

Item	Does the IUT support the...	Conditions for status	Status	Reference	Support
TEIn 1	TEI value 0 exclusively ?	MCn 1.2	M	3.3.4.2, Annex A	[ ]Yes [ ]No
		NOT MCn 1.2	N/A		[X]N/A
TEIn 2	TEI values in the range from 0 to 63 ?	MCn 3.1.2	M	3.3.4.2	[X]Yes [ ]No
		NOT MCn 3.1.2	N/A		[ ]N/A
TEIn 3	TEI values in the range from 64 to 126 ?	MCn 3.1.1	M	3.3.4.2	[X]Yes [ ]No
		NOT MCn 3.1.1	N/A		[ ]N/A
TEIn 4	TEI value 127 ?	MCn 2.1	M	3.3.4.1	[X]Yes [ ]No
		NOT MCn 2.1	N/A		[ ]N/A

Comments:

A.8.5 Timers

Indicating support for an item in table A.20 states that the implementation has a timer that operates in accordance with the description in subclause 5.9 and the relevant behaviour in ETS 300 402-2 [1].

Table A.20: Timers - network

Item	Timer: does the IUT support...	Conditions for status	Status	Reference	Support	Supported value(s)
TMn 1	T200 (default value 1 s) ?	M	5.9.1	[X]Yes [ ]No	1s TMn 2	
	T201 (default value 1 s) ?	MCn 1.1	M	5.9.6	[X]Yes [ ]No	1s
		MCn 1.2	N/A		[ ]N/A	
TMn 3	T203 (default value 10 s) ?	MCn 5.5	M	5.9.8	[X]Yes [ ]No	10 s
		NOT MCn 5.5	N/A		[ ]N/A	

Comments:

A.8.6 System parameters

Indicating support for an item in table A.21 states that the implementation has implemented the system parameter.

Table A.21: Parameters - network

Item	System parameter: does the IUT support...	Conditions for status	Status	Reference	Support	Supported value(s)
SPn 1	N200 (default value 3) ?		M	5.9.2	[X]Yes [ ]No	3
SPn 2	N201 (default value 260) ?		M	5.9.3	[X]Yes [ ]No	260
SPn 3	k (default values 1, 3, 7) ?		M	5.9.5	[X]Yes [ ]No	1 for SAPI=0 3 for SAPI=16

Comments:

PICS proforma for ETS 300 402-2 on PRA

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 300 402-2 [1] may provide information in a standardized manner.
The PICS proforma is subdivided into clauses as follows:

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

A.1.2 Symbols, abbreviations and conventions

The PICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [3].

Item column:

The item column contains a unique reference (a mnemonic plus a number) for each item within the PICS 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 proformas both these cases were identified by the same mnemonic (e.g. MC).

Item description column:

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

Conditions for status column:

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

Status column:

The following notations, defined in ISO/IEC 9646-7 [3], are used for the status column:

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

NOTE: To support a capability means that the capability is implemented in conformance to ETS 300 402-2 [1].

Reference column:

Except where explicitly stated, the reference column refers to the appropriate parts of ETS 300 402-2 [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 300 402-2 [1] have also to be taken into account when making a statement about the conformance of that particular item.

Support column:

The following notation, defined in ISO/IEC 9646-7 [3], is used for the support column:

[ ] Yes [ ] No	Tick "Yes" if item is supported, tick "No" if item is not supported.
[ ] N/A	Tick "N/A" if the item is "not applicable".

Prerequisite line:

A prerequisite line takes the form: Prerequisite: <predicate>.
A prerequisite line after a subclause heading or table title indicates that the whole subclause or the whole table is not required to be completed if the predicate is FALSE.

A.1.3 Instructions for completing the PICS proforma

The supplier of the implementation shall complete the PICS proforma. For each row in each PICS proforma table the supplier shall enter an explicit answer (i.e. by ticking the appropriate "Yes", "No", or "N/A" in each of the support column boxes provided. Where a support column box is left blank, or where it is marked "N/A" without any tick box, no answer is required. If necessary, the supplier may enter additional comments at the end of each table, or separately.
More detailed instructions may be found at the beginning of each subclause of the proforma.

A.2 IDENTIFICATION OF THE IMPLEMENTATION

Identification of the Implementation Under Test (IUT) and the system in which it resides (the System Under Test (SUT)) should be filled in to provide as much detail as possible regarding version numbers and configuration options.
The product supplier and client information should both be filled in if they are different.
A person who can answer queries regarding information supplied in the PICS should be named as the contact person.

A.2.1 Date of the statement

16/12/2002.....

A.2.2 Implementation Under Test (IUT) identification

IUT name:
A1000S12.....
.....
IUT version:
PACK 8.....

A.2.3 System Under Test (SUT) identification

SUT name:
A1000S12.....
.....
Hardware configuration:
IPTMU .....
.....
.....
Operating system:
S12 .....
.....

A.2.4 Product supplier

Name:
ALCATEL BELL n.v. .....
E-mail address:
http://ALCATEL.be .....
Address:
Francis Wellesplein 1
B-2018 Antwerpen.....
België.....
.....
Telephone number:
+32 3 2404011 .....
Facsimile number:
+32 3 2409999 .....
Additional information:
.....
.....
.....

A.2.5 Client

Name:
PROXIMUS .....

E-mail address:
.....
Address:
.....
.....
.....
Telephone number:
.....
Facsimile number:
.....
Additional information:
.....
.....
.....

A.2.6 PICS contact person

Name:
KAZIMIERZ BOHDANOWICZ.....
E-mail address:
.....
Address:
Francis Wellesplein 1
B-2018 Antwerpen.....
België.....
.....
.....
Telephone number:
32/3/2409749 .....
Facsimile number:
+32 3 2409999 .....
Additional information:

A.3 IDENTIFICATION OF THE PROTOCOL TO WHICH THIS PICS PROFORMA APPLIES

This PICS proforma applies to the following standard:

ETS 300 402-2 (1995): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Data link layer; Part 2: General protocol specification [ITU-T Recommendation Q.921 (1993), modified]".

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 2 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 2 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.

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.5 GLOBAL STATEMENT OF CONFORMANCE

The implementation described in this PICS meets all the mandatory requirements of the referenced standard ?

[X] **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	Conditions for status	Status	Reference	Support
R1	not used				
R 2.1	the user role		O.1		[ ]Yes [X]No
R 2.2	the network role		O.1		[X]Yes [ ]No
	Type of implementation				
R3	not used not				
R4	used not used				
R5	basic access				
R 6.1	primary rate access		O.2		[ ]Yes [X]No
R 6.2	Support of one and only one of these options is required.		O.2		[X]Yes [ ]No
O.1	Support of one and only one of these options is required.				
O.2					
Comments:					

A.8 NETWORK

The tables provided in this subclause need only to be completed for network implementations.
Prerequisite: R 2.2

A.8.1 Major capabilities

Each question in table A.12 refers to a major function of the protocol. Answering "Yes" to a particular question states that the implementation supports all the mandatory procedures for that function defined in the referenced clauses and subclauses of ETS 300 402-2 [1]. Answering "No" to a particular question states that the implementation does not support that function of the protocol.

Table A.12: Major capabilities - network

Item	Major capability: does the IUT support...	Conditions for status	Status	Reference	Support
	General				
MCn 1.1	configurations using more than one Terminal Endpoint Identifier (TEI) ?		O.8	Annex A	[ ]Yes [X]No
MCn 1.2	point-to-point configurations using only one TEI value ?		O.8	Annex A	[X]Yes [ ]No
	Procedures for unacknowledged information transfer				
MCn 2.1	the unacknowledged information transfer service in MCn 3 the broadcast data link (using TEI value 127) ?	3 NOT MCn 3	M O	5.2	[ ]Yes [X]No
MCn 2.2	the unacknowledged information transfer service in a point-to-point data link (using a TEI value other than 127) ?		O	5.2, 5.2.1	[ ]Yes [X]No
	TEI management procedure				
MCn 3	TEI management procedures ?	MCn 1.1 MCn 1.2	M O	5.3 Annex A	[ ]Yes [X]No
MCn 3.1.1	the automatic TEI assignment procedures ?	MCn 3 NOT MCn 3	M N/A	5.3.2	[ ]Yes [ ]No [X]N/A
MCn 3.1.2	the non-automatic TEI assignment procedures ?	MCn 3 NOT MCn 3	M N/A	5.3.2	[ ]Yes [ ]No [X]N/A
MCn 3.2	the TEI check procedures ?	MCn 3 NOT MCn 3	M N/A	5.3.3	[ ]Yes [ ]No [X]N/A
MCn 3.3	the TEI removal procedures ?	MCn 3 NOT MCn 3	M N/A	5.3.4	[ ]Yes [ ]No [X]N/A
MCn 3.4	the TEI identity verify procedures ?	MCn 3 NOT MCn 3	O N/A	5.3.5	[ ]Yes [ ]No [X]N/A
	Initialization of data link layer parameters				
MCn 4	the procedures for initialization of the data link parameters to the default values ?		M	5.4	[X]Yes [ ]No
	Multiple frame operations				
MCn 5	multiple frame operations ?		M	5.5	[X]Yes [ ]No
MCn 5.1.1	the self initiated establishment of multiple frame operation ?		O	5.5.1, 5.5.5, 5.5.6	[X]Yes [ ]No
MCn 5.1.2	the peer initiated establishment of multiple frame operation ?		M	5.5.1, 5.5.5, 5.5.6	[X]Yes [ ]No
MCn 5.2.1	the self initiated termination of multiple frame operation ?		O	5.5.3, 5.5.5, 5.5.6	[X]Yes [ ]No
MCn 5.2.2	the peer initiated termination of multiple frame operation ?		M	5.5.3, 5.5.5, 5.5.6	[X]Yes [ ]No
MCn 5.3	information transfer in multiple frame operation ?		M	5.6	[X]Yes [ ]No
MCn 5.4	the re-establishment of multiple frame operation ?		M	5.7	[X]Yes [ ]No
MCn 5.5	the data link layer monitor function ?		O	5.10	[X]Yes [ ]No
O.8	Support of one and only one of these options is required.				

Comments:

A.8.2 Subsidiary capabilities

Indicating support for an item in table A.13 states that the implementation supports special cases or options within a major capability.

Table A.13: Subsidiary capabilities - network

Item	Subsidiary capability: does the IUT support...	Conditions for status	Status	Reference	Support
SCn 1	not used				
	Multiple frame operations				
SCn 2	the transmission of I frames in the own receiver busy condition ?		O	5.6.1	[X]Yes [ ]No
Comments:					

A.8.3 Protocol data units

The tables in this subclause ask questions related to the support of PDUs in the network role.

A.8.3.1 Frames received by the network

Indicating support for an item in table A.14 states that the implementation has the ability to recognize the frame 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 300 402-2 [1].

Table A.14: Frames received - network

Item	Message: does the IUT support the receipt of a frame of type...	Conditions for status	Status	Reference	Support
	Information transfer (I) format				
FRn 1	I command ?		M	3.6.2, 5.6	[X]Yes [ ]No
	Supervisory (S) format				
FRn 2	RR command ?		M	3.6.6, 5.6, 5.10	[X]Yes [ ]No
FRn 3	RR response ?		M	3.6.6, 5.6, 5.10	[X]Yes [ ]No
FRn 4	RNR command ?		M	3.6.8, 5.6, 5.10	[X]Yes [ ]No
FRn 5	RNR response ?		M	3.6.8, 5.6, 5.10	[X]Yes [ ]No
FRn 6	REJ command ?		M	3.6.7, 5.6, 5.8.1	[X]Yes [ ]No
FRn 7	REJ response ?		M	3.6.7, 5.6, 5.8.1	[X]Yes [ ]No
	Unnumbered (U) format				
FRn 8	SABME command ?	M	3.6.3, 5.5.1, 5.7		[X]Yes [ ]No
FRn 9	DISC command ?	M	3.6.4, 5.5.3	[X]Yes [ ]No FRn 10	UA response
?	M	3.6.9, 5.5	[X]Yes [ ]No	FRn 11	DM response
?	M	3.6.10, 5.5	[X]Yes [ ]No	FRn 12	UI command
?	MCn 2.1 OR	M	3.6.5, 5.2.3, 5.3		[ ]Yes [ ]No
		MCn 2.2			[X]N/A
		NOT (MCn 2.1 OR MCn 2.2)	N/A		
FRn 13	FRMR response ?		M	3.6.11, 5.8.6	[X]Yes [ ]No
FRn 14	XID command ?		M	3.6.12	[X]Yes [ ]No
FRn 15	XID response ?		M	3.6.12	[X]Yes [ ]No
Comments:					

A.8.3.2 Frames transmitted by the network

Indicating support for an item in table A.15 states that the implementation has the ability to transmit the frame listed in that item.

Table A.15: Frames transmitted - network

Item	Message: does the IUT support the transmission of a frame of type...	Conditions for status	Status	Reference	Support
	Information transfer (I) format				
FTn 1	I command ?		M	3.6.2, 5.6	[X]Yes [ ]No
	Supervisory (S) format				
FTn 2	RR command ?		M	3.6.6, 5.6, 5.10	[X]Yes [ ]No
FTn 3	RR response ?		M	3.6.6, 5.6, 5.10	[X]Yes [ ]No
FTn 4	RNR command ?		M	3.6.8, 5.6, 5.10	[X]Yes [ ]No
FTn 5	RNR response ?		M	3.6.8, 5.6, 5.10	[X]Yes [ ]No
FTn 6	REJ command ?		M	3.6.7, 5.6, 5.8.1	[X]Yes [ ]No
FTn 7	REJ response ?		M	3.6.7, 5.6, 5.8.1	[X]Yes [ ]No
	Unnumbered (U) format				
FTn 8	SABME command ?	M	3.6.3, 5.5.1, 5.7		[X]Yes [ ]No
FTn 9	DISC command ?	MCn 5.2.1	M	3.6.4, 5.5.3	[X]Yes [ ]No
		NOT MCn 5.2.1	O		
FTn 10	UA response ?	M	3.6.9, 5.5	[X]Yes [ ]No FTn 11	DM response
?	M	3.6.10, 5.5	[X]Yes [ ]No	FTn 12	UI command
?	MCn 2.1 OR	M	3.6.5, 5.2.2, 5.3		[ ]Yes [ ]No
		MCn 2.2			[X]N/A
		NOT (MCn 2.1 OR MCn 2.2)	N/A		
FTn 13	FRMR response ?		X	3.6.11, 5, 5.8.6	[ ]Yes [X]No
Comments:					

A.8.4 PDU parameters

A.8.4.1 Service data units

A.8.4.1.1 Service data units received by the network

The tables in this subclause ask questions related to the support of SDU parameters in UI frames received and transmitted by the IUT in the network role.

Table A.16: SDUs received in UI frames - network

Item	Does the IUT support in the UI frame information field the interpretation of ...	Conditions for status	Status	Reference	Support
PRn 1	Layer 3 messages ?	FRn 12	O	5.2	[ ]Yes [ ]No
		NOT FRn 12	N/A		[X]N/A
	Layer management messages				
PRn 2.1	Identity request ?	MCn 3.1.1	M	5.3.2	[ ]Yes [ ]No
		NOT MCn 3.1.1	N/A		[X]N/A
PRn 2.2	Identity check response ?	MCn 3.2	M	5.3.3	[ ]Yes [ ]No
		NOT MCn 3.2	N/A		[X]N/A
PRn 2.3	Identity verify ?	MCn 3.4	M	5.3.5	[ ]Yes [ ]No
		NOT MCn 3.4	N/A		[X]N/A
Comments:					

A.8.4.1.2 Service data units transmitted by the network

Table A.17: SDUs transmitted in UI frames - network

Item	Does the IUT support in the UI frame information field the inclusion of ...	Conditions for status	Status	Reference	Support
PTn 1	Layer 3 messages ?	FTn 12	O	5.2	[ ]Yes [ ]No
		NOT FTn 12	N/A		[X]N/A
	Layer management messages				
PTn 2.1	Identity assign ?	MCn 3.1.1	M	5.3.2	[ ]Yes [ ]No
		NOT MCn 3.1.1	N/A		[X]N/A
PTn 2.2	Identity denied ?	MCn 3.1.1	M	5.3.2	[ ]Yes [ ]No
		NOT MCn 3.1.1	N/A		[X]N/A
PTn 2.3	Identity check reques ?	MCn 3.2	M	5.3.3	[ ]Yes [ ]No
		NOT MCn 3.2	N/A		[X]N/A
PTn 2.4	Identity remove ?	MCn 3.3	M	5.3.4	[ ]Yes [ ]No
		NOT MCn 3.3	N/A		[X]N/A
Comments:					

A.8.4.2 Address field variables

The tables in this subclause ask questions related to the support of the values of certain fields of the address field received and transmitted by the IUT in the network role.

Table A.18: SAPI values supported - network

Item	Does the IUT support the ...	Conditions for status	Status	Reference	Support
SAPn 1	SAPI value 0 ?	O.9	3.3.3	[X]Yes [ ]No SAPn 2	SAPI value
12 ?	O.9	3.3.3	[ ]Yes [X]No	SAPn 3	SAPI value
16 ?	O.9	3.3.3	[X]Yes [ ]No	SAPn 4	SAPI value
63 ?	MCn 3	M	3.3.3, 5.3.1	[ ]Yes [ ]No	
		NOT MCn 3	N/A		[X]N/A
O.9	Support of at least one of these options is required.				
Comments:					

Table A.19: TEI values supported - network

Item	Does the IUT support the...	Conditions for status	Status	Reference	Support
TEIn 1	TEI value 0 exclusively ?	MCn 1.2	M	3.3.4.2, Annex A	[X]Yes [ ]No
		NOT MCn 1.2	N/A		[ ]N/A
TEIn 2	TEI values in the range from 0 to 63 ?	MCn 3.1.2	M	3.3.4.2	[ ]Yes [ ]No
		NOT MCn 3.1.2	N/A		[X]N/A
TEIn 3	TEI values in the range from 64 to 126 ?	MCn 3.1.1	M	3.3.4.2	comment 1 [ ]Yes [ ]No
		NOT MCn 3.1.1	N/A		[X]N/A
TEIn 4	TEI value 127 ?	MCn 2.1	M	3.3.4.1	[ ]Yes [ ]No
		NOT MCn 2.1	N/A		[X]N/A
Comments: 1. TEI values in this range are supported for D-channel PMBS					

A.8.5 Timers

Indicating support for an item in table A.20 states that the implementation has a timer that operates in accordance with the description in subclause 5.9 and the relevant behaviour in ETS 300 402-2 [1].

Table A.20: Timers - network

Item	Timer: does the IUT support...	Conditions for status	Status	Reference	Support	Supported value(s)
TMn 1	T200 (default value 1 s) ?		M	5.9.1	[X]Yes [ ]No	1s
TMn 2	T201 (default value 1 s) ?	MCn 1.1	M	5.9.6	[ ]Yes [ ]No	
		MCn 1.2	N/A		[X]N/A	
TMn 3	T203 (default value 10 s) ?	MCn 5.5	M	5.9.8	[X]Yes [ ]No	10 s
		NOT MCn 5.5	N/A		[ ]N/A	

Comments:

A.8.6 System parameters

Indicating support for an item in table A.21 states that the implementation has implemented the system parameter.

Table A.21: Parameters - network

Item	System parameter: does the IUT support...	Conditions for status	Status	Reference	Support	Supported value(s)
SPn 1	N200 (default value 3) ?		M	5.9.2	[X]Yes [ ]No	3
SPn 2	N201 (default value 260) ?		M	5.9.3	[X]Yes [ ]No	260
SPn 3	k (default values 1, 3, 7) ?		M	5.9.5	[X]Yes [ ]No	7

Comments:

PART 2

SIEMENS

6. PICS proforma

6.1 Identification of the implementation

6.1.1 Implementation Under Test (IUT) identification

IUT name:

.....

.....

IUT version:

.....

6.1.2 System Under Test (SUT) identification

SUT name:

EWSD .....

.....

Hardware configuration:

.....

.....

.....

Operating system:

V16 BEL.....

6.1.3 Product supplier

Name:

Siemens Atea n.v.

Address:

Atealaan 34
B-2200 Herentals
Belgium

Telephone number:

+32 14 25 21 11

Facsimile number:

Fax + 32 14 25 33 33

Additional information:

EWSD V16 BEL

6.1.4 Client

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

Additional information:

.....

.....

.....

6.1.5 PICS contact person

Name:

Telephone number:

Facsimile number:

Additional information:

.....

.....

.....

6.2 PICS/System Conformance Statement (SCS)

Provide the relationship of the PICS with the SCS for the system:

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

6.3 Identification of the protocol

This PICS proforma applies to the following standard:

ETS 300 125 (1991): "Integrated Services Digital Network (ISDN); User-network interface data link layer specification; Application of CCITT Recommendations Q.920/I.440 and Q.921/I.441".

6.4 Global statement of conformance

The implementation described in this PICS meets all the mandatory requirements of the referenced standard.

[**x**] **Yes** ***(see remark)***

[ ] **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.

REMARK : If we don't take in consideration the mandatory capabilities linked to "LAPB-operation". "LAPB-operation" is not applicable.

6.5 Protocol capabilities

Unless otherwise indicated all references in table 1 are to ETS 300 125 [1], Part II.

Table 1: Protocol capabilities

Index	Protocol feature	Status	Reference	Support
PC 1.1	Is the implementation of the non-automatic TEI assignment category?	M	3.3.4.2	Yes:X No:_X:X1
PC 1.2	Is the implementation of the automatic TEI assignment category?	M	3.3.4.2	Yes:X No:_X:_
PC 1.3	Does the implementation only support point-to-point configurations using a single data link connection? If this option is supported then PC 1.2 is not applicable and it is permissible to respond "No" to items PC 2.1, PC 10 and PC 27 to PC 33. See also note.	O	annex A	Yes:_No:X X:_
PC 2.1	Does the implementation support the broadcast data link for layer management (SAPI = 63)?	M	5.2	Yes:X No:_X:_
PC 2.2	Does the implementation provide a broadcast data link service to layer 3?	M	5.2	Yes:X No:_X:_
PC 3	Does the implementation support the TEI verification procedure?	O	5.3.5	Yes:X No:_X:_
PC 4	Does the implementation support data link monitor function?	M	5.10	Yes:X No:_X:_
PC 5	Does the implementation support reject retransmission procedure?	N/A	3.6.7, 5.8.1, appendix I	
PC 6.1	Does the implementation support automatic negotiation of data link layer parameters?	N/A	appendix IV	
PC 6.2	Does the implementation support internal parameter initialization?	M	5.4, appendix IV	Yes:X No:_X:_
PC 7	Does the implementation permit concurrent LAPB data link connection within the D-channel?	O	2.3	Yes:_No:X X:_
	Service Access Point Identifier (SAPI)			
PC 8	If the implementation supports call control procedures, is SAPI=0 supported?	O.1	3.3.3	Yes:X No:_X:_
PC 9	If the implementation supports packet communication conforming to X.25 level 3 procedures, is SAPI=16 supported?	O.1	3.3.3	Yes:X No:_X:_
PC 10	Is SAPI=63 supported?	M	3.3.3	Yes:X No:_X:_

Index	Protocol feature	Status	Reference	Support
PC 11	Does the implementation give priority to SAPI=0 information?	M	Part I, 5.2	Yes:X No:_X:_
PC 12	Does the implementation support modulus 128 for frames numbering?	M	3.5.2.1, 5.5.1	Yes:X No:_X:_
	Peer-to-Peer Procedures			
	Unacknowledged information transfer			
PC 13	Does the implementation support UI-command?	M	5.2.2	Yes:X No:_X:_
PC 14	Is the P/F bit set to 0?	M	5.1.1	Yes:X No:_X:_
PC 15	Does the implementation recognize an indication of persistent layer 1 deactivation?	O	5.2.2, 5.5.3.1	Yes: X No:_X:_
PC 16	If the implementation recognizes persistent layer 1 deactivation does it discard all UI queues?	M	5.2.2	Yes:X No:_X:_
	TEI Management			
PC 17	Does the ASP transmit management entity messages in UI frames with DLCI = (63, 127)?	M	5.3.1	Yes:X No:_X:_
PC 18	Does the ASP allocate, select and assign TEI values?	M	5.3.1	Yes:X No:_X:_
PC 19.1	Does the ASP support a map of the full range of automatic TEI values?	O.2	5.3.2	Yes:X No:_X:_
PC 19.2	Does the ASP support an updated list of all automatic TEI values available for assignment or a smaller subset?	O.2	5.3.2	Yes:X No:_X:_
	TEI Assignment Procedures			
PC 20	Does the ASP ignore identity request messages containing identical Ri values?	M	5.3.2	Yes:X No:_X:_
PC 21	Does the ASP ignore identity request messages with Ai=0 to 63?	M	5.3.2	Yes: X No:_X:_
PC 22	Does the ASP deny identity request messages with Ai=64 to 126?	M	5.3.2	Yes:X No:_X:_
PC 23	Does the ASP initiate TEI check procedure if available TEI values are exhausted?	M	5.3.2	Yes:X No:_X:_
	TEI Check Procedures			
PC 24	Does the ASP transmit an identity check request message containing either a specific TEI value to be checked or the value 127 when all TEI values are to be checked?	M	5.3.3.2	Yes:X No:_X:_

Index	Protocol feature	Status	Reference	Support
PC 25	When the TEI check procedure is used to test whether a TEI value is in use, does the ASP retransmit an Identity check request message once if no answer is received?	M	5.3.3.2	Yes:X No:_X:_
PC 26	Does the ASP accept a multiple identity check response message in response to an identity check request message with Ai=127?	M	5.3.3.2	Yes:X No:_X:_
PC 27	Does the ASP assume that the TEI value under check is free if no response is received from the user after T201 expires for the second time?	M	5.3.3.2	Yes:X No:_X:_
PC 28	Does the ASP assume that the TEI value being checked is in use on receipt of one identity check response message?	M	5.3.3.2	Yes:X No:_X:_
PC 29	Does the ASP assume duplicate TEI assignment on receipt of more than one identity check response message received in either the first or the second time period defined by T201 containing the same TEI value?	M	5.3.3.2	Yes:X No:_X:_
	TEI Removal/Identity Verify Procedures			
PC 30	Does the ASP remove a non-automatic TEI value when duplicate TEI assignment has occurred?	M	5.3.4.2	Yes:X No:_X:_
PC 31	Does the ASP remove an automatic TEI value when either it is no longer in use or duplicate TEI assignment has occurred?	M	5.3.4.2	Yes:X No:_X:_
PC 32	Does the ASP transmit twice in succession an Identity remove message containing either the specific TEI value to be removed or Ai=127 when all TEI values are to be removed?	M	5.3.4.2	Yes: X No:_X:_
PC 33	Does the ASP respond with an Identity check request message if the TEI Identity verify procedure is implemented and if an Identity verify message is received from the user?	M	5.3.5	Yes:X No:_X:_
	Establishment and release of MF operation			
PC 34	Does the implementation support MF operation?	M	5.5	Yes:X No:_X:_
	Does the implementation re-establish the MF operation:			

PC 35.1	On receiving a SABME command while in the MF mode of operation?	M	5.7.1	Yes:X No:_X:_
PC 35.2	If N200 retransmission failures occur while in the timer recovery condition?	M	5.7.1	Yes:X No:_X:_
PC 35.3	On receiving an undefined frame?	M	3.6.1, 5.8.5	Yes:X No:_X:_
PC 35.4	On receiving a supervisory or unnumbered frame with incorrect length?	M	5.7.1, 5.8.5	Yes:X No:_X:_
PC 35.5	On receiving an invalid sequential number N(R)?	M	5.7.1, 5.8.5	Yes:X No:_X:_
PC 35.6	On receiving a frame with an information field exceeding N201 (maximum number of octets)?	M	5.7.1, 5.8.5	Yes:X No:_X:_
PC 35.7	On receiving a FRMR response?	M	5.7.1, 5.8.6	Yes:X No:_X:_
PC 35.8	On receiving an unsolicited DM (F=0) response while in MF operation?	M	5.7.1	Yes:_No:X X:X2
PC 35.9	On receiving an unsolicited DM (F=1) response while in the timer recovery condition?	M	5.7.1	Yes:X No:_X:_
	Error conditions			
PC 36	Does the implementation transmit a REJ frame in the event of a N(S) sequence error if the receiver condition is normal?	M	5.8.1	Yes:X No:_X:_
PC 37.1	Does the implementation issue an MDL-ERROR-IND (C) or MDL-ERROR-IND (D) and initiate TEI check on the receipt of an unsolicited UA response in the TEI assigned state?	O.3	5.3.4.2, 5.5.4, 5.8.7 appendix II	Yes:X No:_X:_
PC 37.2	Does the implementation issue an MDL-ERROR-IND (C) or MDL-ERROR-IND (D) and remove TEI on the receipt of an unsolicited UA response in the TEI assigned state?	O.3	5.3.4.2, 5.5.4, 5.8.7 appendix II	Yes:_No:X X:_
PC 38.1	Does the implementation issue an MDL-ERROR-IND (D) and initiate TEI check procedure on the receipt of an unsolicited UA response in the Awaiting establishment state?	O.4	5.3.4.2, 5.8.7, appendix II	Yes:X No:_X:_
PC 38.2	Does the implementation issue an MDL-ERROR-IND (D) and remove TEI on the receipt of an unsolicited UA response in the Awaiting establishment state?	O.4	5.3.4.2, 5.8.7, appendix II	Yes:_No:X X:_

PC 39.1	Does the implementation issue an MDL-ERROR-IND (D) and initiate TEI check procedure on the receipt of an unsolicited UA response in the Awaiting release state?	O.5	5.3.4.2, 5.8.7, appendix II	Yes:X No:_X:_
PC 39.2	Does the implementation issue an MDL-ERROR-IND (D) and remove TEI on the receipt of an unsolicited UA response in the Awaiting release state?	O.5	5.3.4.2, 5.8.7, appendix II	Yes:_No:X X:_
PC 40.1	Does the implementation issue an MDL-ERROR-IND (C) or MDL-ERROR-IND (D) and initiate TEI check procedure on the receipt of an unsolicited UA response in the MF established state?	O.6	5.3.4.2, 5.8.7, appendix II	Yes:X No:_X:_
PC 40.2	Does the implementation issue an MDL-ERROR-IND (C) or MDL-ERROR-IND (D) and remove TEI on the receipt of an unsolicited UA response in the MF established state?	O.6	5.3.4.2, 5.8.7, appendix II	Yes:_No:_X:_
PC 41.1	Does the implementation issue an MDL-ERROR-IND (C) or MDL-ERROR-IND (D) and initiate TEI check procedure on the receipt of an unsolicited UA response in the Timer recovery state?	O.7	5.3.4.2, 5.8.7, appendix II	Yes:_No:X X:_
PC 41.2	Does the implementation issue an MDL-ERROR-IND (C) or MDL-ERROR-IND (D) and remove TEI on the receipt of an unsolicited UA response in the Timer recovery state?	O.7	5.3.4.2, 5.8.7, appendix II	Yes:_No:_X:_
PC 42	Does the implementation issue an MDL-ERROR-IND (G) and initiate TEI check procedure, after N200 unsuccessful retransmissions of SABME in the Awaiting establishment state?	O.8	5.3.4.2, 5.5.1.3, appendix II	Yes:X No:_X:_
PC 43	Does the implementation issue an MDL-ERROR-IND (H) and initiate TEI check procedure, after N200 unsuccessful retransmissions of DISC in the Awaiting release state?	O.9	5.3.4.2, 5.5.3.3, appendix II	Yes:X No:_X:_

	Other network management actions:			
PC 44.1	Does the implementation log the event on error code A?	O	appendix II	Yes:_ No:X X:_
PC 44.2	Does the implementation log the event on error code B?	O	appendix II	Yes:_ No:X X:_
PC 44.3	Does the implementation log the event on error code E?	O	appendix II	Yes:_ No:X X:_
PC 44.4	Does the implementation log the event on error code F?	O	appendix II	Yes:_ No:X X:_
PC 44.5	Does the implementation log the event on error code I?	O	appendix II	Yes:_ No:X X:_
PC 44.6	Does the implementation log the event on error code J?	O	appendix II	Yes:_ No:X X:_
PC 44.7	Does the implementation log the event on error code K?	O	appendix II	Yes:_ No:X X:_
PC 44.8	Does the implementation log the event on error code L?	O	appendix II	Yes:_ No:X X:_
PC 44.9	Does the implementation log the event on error code N?	O	appendix II	Yes:_ No:X X:_
PC 44.10	Does the implementation log the event on error code O?	O	appendix II	Yes:_ No:X X:_

O.1	PC 8 and PC 9	Support of at least one of these items is required.
O.2	PC 19.1 and PC 19.2	Support of at least one of these items is required.
O.3	PC 37.1 and PC 37.2	Support of one, and only one, of these items is required.
O.4	PC 38.1 and PC 38.2	Support of one, and only one, of these items is required.
O.5	PC 39.1 and PC 39.2	Support of one, and only one, of these items is required.
O.6	PC 40.1 and PC 40.2	Support of one, and only one, of these items is required.
O.7	PC 41.1 and PC 41.2	Support of one, and only one, of these items is required.
O.8	PC 42	Support of this item is required. Support of this item is
O.9	PC 43	required.

NOTE: The layer 2 management procedures are optional on point-to-point configurations using a single data link connection and a non-automatic TEI value. See ETS 300 125 [1] annex A.

Comments:

X1: For point-to-point configurations, layer 2 will support only the data links (SAPI=0, TEI=0), (SAPI=16, TEI=0), (SAPI=63, TEI=127) .
For point-to-point configuration, broadcast data link connection is not supported.
For point-to-point configurations, only TEI=0 is used . This is compliant with the Proximus requirement SPEC-CT-DE F.A.5 issue 2 par. 3.3.3 and 3.3.4

X2: An unsolicited DM response with F bit set to 0 is ignored, because LAPB operation is not supported. This case is a relic from the LAPB-procedures, to be able to request a layer 2- establishment from the slave in the unbalanced mode. The exchange/ terminal requests a layer 2 establishment with SABME (i.e. balanced mode), so the establishment according to table 9 (DM resqponse, F=0 / TEI -assigned) is not applicable. This behaviour is compliant with the Proximus requirement SPEC-CT-DE F.A.5 issue 2 par.5.7.1

6.6 Frames - protocol data units

Unless otherwise indicated all references in table 2 are to ETS 300 125 [1], Part II.

Table 2: Frames, protocol data units

Index	Protocol feature	Status	Reference	Support
	Frame Format			
FR 1	Format A	M	2.1	Yes:X No:_X:_
FR 2	Format B	M	2.1	Yes:X No:_X:_
	Flag Sequence			
FR 3	Opening flag	M	2.2	Yes:X No:_X:_
FR 4	Closing flag	M	2.2	Yes:X No:_X:_
	Address Field			
FR 5	Two octets	M	2.3	Yes:X No:_X:_
FR 6	If the implementation permits concurrent LAPB data link connection with the D-channel, is the one octet address field recognized?	M	2.3	Yes:_No:X X:X3
	Control Field			
	Unacknowledged operation			
FR 7	Single octet	M	2.4	Yes:X No:_X:_
	MF operation			
FR 8	Two octets	M	2.4	Yes:X No:_X:_
FR 9	Single octet (unnumbered frame)	M	2.4	Yes:X No:_X:_
	Order of Bit Transmission			
FR 10	Ascending numerical order	M	2.8.2	Yes:X No:_X:_
	Field Mapping Convention			
FR 11	Lowest bit number = Lowest order value	M	2.8.3	Yes:X No:_X:_
	Do all transmitted frames contain the following fields?			
FR 12.1	- Flag	M	2.2	Yes:X No:_X:_
FR 12.2	- Address	M	2.3	Yes:X No:_X:_
FR 12.3	- Control	M	2.4	Yes:X No:_X:_
FR 12.4	- FCS	M	2.7	Yes:X No:_X:_
FR 13	Is the implementation capable of accepting the closing flag as the opening flag of the next frame?	M	2.2	Yes:X No:_X:_
FR 14	Does the implementation generate a single flag as above?	O	2.2	Yes: X No:_X:_

Index	Protocol feature	Status	Reference	Support
FR 15	Does the implementation ignore one flag, or two or more consecutive flags that do not delimit frames?	M	2.2	Yes:X No:_X:_
FR 16	Are all invalid frames discarded and no action taken?	M	2.9	Yes:X No:_X:_
FR 17	Are seven or more contiguous 1 bits interpreted as an abort and the associated frames ignored?	M	2.10	Yes:X No:_X:_
FR 18	If the implementation supports the automatic negotiation of data link layer parameters, does it support XID frames?	N/A	3.6.12, appendix IV	
FR 19	Does the implementation discriminate invalid frames and frames with information field exceeding N201 value?	M	5.8.5	Yes:X No:_X:_
FR 20	Does the implementation discard frame types associated with an application which is not implemented?	M	3.6.1	Yes:X No:_X:_
FR 21	Does the implementation discard unbounded frames?	M	5.8.5	Yes:X No:_X:_

Comments:

X3: The LAPB data link connection is not supported, because the LAPB address field is not sufficient for ISDN (it cannot contain SAPI plus TEI) . If the network receives a LAPB frame , the frame is treated as an invalid frame as described in par. 5.8.4.

6.7 System parameters

Unless otherwise indicated all references in table 3 are to ETS 300 125 [1], Part II.

Table 3: System parameters

Index	System parameter	Status	Reference	Support
SP 1	Retransmission time (T200)	M	5.9.1	Yes:X No:_Value:_
SP 2	Maximum number of retransmissions (N200)	M	5.9.2	Yes:X No:_Value:_
	Maximum number of octets in information field (N201):			
SP 3	For SAP supporting basic access signalling	M	5.9.3	Yes:X No:_Value:_
SP 4	For SAP supporting basic access packet procedures on the D-channel	M	5.9.3	Yes:X No:_Value:_
	Maximum number of outstanding I frames (k)			
SP 5	For SAP supporting basic access signalling	M	5.9.5	Yes:X No:_Value:_
SP 6	For SAP supporting basic access packet procedures on the D-channel	M	5.9.5	Yes:X No:_Value:_
SP 7	Minimum time between retransmission of TEI Identity Check Request messages (T201)	M	5.9.6	Yes:X No:_Value:_
	If the implementation supports the data link monitor function:			
SP 8	Maximum time allowed without frames being exchanged (T203)	M	5.9.8	Yes:X No:_Value:_
	If the implementation supports the automatic negotiation of data link parameters,			
SP 9	Retransmission time of XID frame (TM20)	N/A	appendix IV.2	
SP 10	Maximum number of retransmissions of XID frame (NM20)	N/A	appendix IV.2	

Comments:

6. PICS proforma

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

6.1 Identification of the implementation

6.1.1 Implementation Under Test (IUT) identification

IUT name:

.....

.....

IUT version:

.....

6.1.2 System Under Test (SUT) identification

SUT name:

EWSD .....

.....

Hardware configuration:

.....

.....

.....

Operating system:

V16 BEL .....

6.1.3 Product supplier

Name:

Siemens Atea n.v.

Address:

Atealaan 34
B-2200 Herentals
Belgium

Telephone number:

+32 14 25 21 11

Fax + 32 14 25 33 33 .....

Additional information:

EWSD V16 BEL

6.1.4 Client

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

Additional information:

.....

.....

.....

6.1.5 PICS contact person

Name:

Telephone number:

Facsimile number:

Additional information:

.....

.....

.....

6.2 PICS/System Conformance Statement (SCS)

Provide the relationship of the PICS with the SCS for the system:

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

6.3 Identification of the protocol

This PICS proforma applies to the following standard:

ETS 300 125 (1991): "Integrated Services Digital Network (ISDN); User-network interface data link layer specification; Application of CCITT Recommendations Q.920/I.440 and Q.921/I.441".

6.4 Global statement of conformance

The implementation described in this PICS meets all the mandatory requirements of the referenced standard.

[x] Yes *(see remark)*

[ ] 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.

REMARK :

1. If we don't take in consideration the mandatory capabilities linked to "LAPB-operation". "LAPB-operation" is not applicable.

2. If we take into account that a Primary Rate Access will operate always in a point-to-point configuration (at layer 1) with only one datalink connection (SAPI = 0, TEI = 0).

6.5 Protocol capabilities

Unless otherwise indicated all references in table 1 are to ETS 300 125 [1], Part II.

Table 1: Major capabilities

Index	Protocol feature	Status	Reference	Support
PC 1.1	Is the implementation of the non-automatic TEI assignment category?	M	3.3.4.2	Yes:X No:_X: X1
PC 1.2	Is the implementation of the automatic TEI assignment category?	M	3.3.4.2	Yes:_No: X X:X1
PC 1.3	Does the implementation only support point-to-point configurations using a single data link connection? If this option is supported then PC 1.2 is not applicable and it is permissible to respond "No" to items PC 2.1, PC 10 and PC 27 to PC 33. See also note.	O	annex A	Yes:X No:_X:_
PC 2.1	Does the implementation support the broadcast data link for layer management (SAPI = 63)?	M	5.2	Yes:X No:_X:_
PC 2.2	Does the implementation provide a broadcast data link service to layer 3?	M	5.2	Yes:_No:X X:X2
PC 3	Does the implementation support the TEI verification procedure?	O	5.3.5	Yes:X No:_X:_
PC 4	Does the implementation support data link monitor function?	M	5.10	Yes:X No:_X:_
PC 5	Does the implementation support reject retransmission procedure?	N/A	3.6.7, 5.8.1, appendix I	
PC 6.1	Does the implementation support automatic negotiation of data link layer parameters?	N/A	appendix IV	
PC 6.2	Does the implementation support internal parameter initialization?	M	5.4, appendix IV	Yes:X No:_X:_
PC 7	Does the implementation permit concurrent LAPB data link connection within the D-channel?	O	2.3	Yes:_No:X X:_
	Service Access Point Identifier (SAPI)			
PC 8	If the implementation supports call control procedures, is SAPI=0 supported?	O.1	3.3.3	Yes:X No:_X:_
PC 9	If the implementation supports packet communication conforming to X.25 level 3 procedures, is SAPI=16 supported?	O.1	3.3.3	Yes:_No:X X:_

Index	Protocol feature	Status	Reference	Support
PC 10	Is SAPI=63 supported?	M	3.3.3	Yes:X No:_X:_
PC 11	Does the implementation give priority to SAPI=0 information?	M	Part I, 5.2	Yes:X No:_X:_
PC 12	Does the implementation support modulus 128 for frames numbering?	M	3.5.2.1, 5.5.1	Yes:X No:_X:_
	Peer-to-Peer Procedures			
	Unacknowledged information transfer			
PC 13	Does the implementation support UI-command?	M	5.2.2	Yes:_No:X X:X3
PC 14	Is the P/F bit set to 0?	M	5.1.1	Yes:X No:_X:_
PC 15	Does the implementation recognize an indication of persistent layer 1 deactivation?	O	5.2.2, 5.5.3.1	Yes:X No:_X:_
PC 16	If the implementation recognizes persistent layer 1 deactivation does it discard all UI queues?	M	5.2.2	Yes:X No:_X:_
	TEI Management			
PC 17	Does the ASP transmit management entity messages in UI frames with DLCI = (63, 127)?	M	5.3.1	Yes:X No:_X:_
PC 18	Does the ASP allocate, select and assign TEI values?	M	5.3.1	Yes:_No:X X:X1
PC 19.1	Does the ASP support a map of the full range of automatic TEI values?	O.2	5.3.2	Yes:_No:X X:X1
PC 19.2	Does the ASP support an updated list of all automatic TEI values available for assignment or a smaller subset?	O.2	5.3.2	Yes:_No:X X:X1
PC 20	Does the ASP ignore identity request messages containing identical Ri values?	M	5.3.2	Yes:_No:X X:X4
PC 21	Does the ASP ignore identity request messages with Ai=0 to 63?	M	5.3.2	Yes:_No:X X:X4
PC 22	Does the ASP deny identity request messages with Ai=64 to 126?	M	5.3.2	Yes:X No:_X:_
PC 23	Does the ASP initiate TEI check procedure if available TEI values are exhausted?	M	5.3.2	Yes:_No:X X: X1

	TEI Check Procedures			
PC 24	Does the ASP transmit an identity check request message containing either a specific TEI value to be checked or the value 127 when all TEI values are to be checked?	M	5.3.3.2	Yes:X No:_X:_
PC 25	When the TEI check procedure is used to test whether a TEI value is in use, does the ASP retransmit an Identity check request message once if no answer is received?	M	5.3.3.2	Yes:X No:_X:_
PC 26	Does the ASP accept a multiple identity check response message in response to an identity check request message with Ai=127?	M	5.3.3.2	Yes:X No:_X:_
PC 27	Does the ASP assume that the TEI value under check is free if no response is received from the user after T201 expires for the second time?	M	5.3.3.2	Yes:X No:_X:_
PC 28	Does the ASP assume that the TEI value being checked is in use on receipt of one identity check response message?	M	5.3.3.2	Yes:X No:_X:_
PC 29	Does the ASP assume duplicate TEI assignment on receipt of more than one identity check response message received in either the first or the second time period defined by T201 containing the same TEI value?	M	5.3.3.2	Yes:X No:_X:_
	TEI Removal/Identity Verify Procedures			
PC 30	Does the ASP remove a non-automatic TEI value when duplicate TEI assignment has occurred?	M	5.3.4.2	Yes:X No:_X:_
PC 31	Does the ASP remove an automatic TEI value when either it is no longer in use or duplicate TEI assignment has occurred?	M	5.3.4.2	Yes:X No:_X:_
PC 32	Does the ASP transmit twice in succession an Identity remove message containing either the specific TEI value to be removed or Ai=127 when all TEI values are to be removed?	M	5.3.4.2	Yes:X No:_X:_
PC 33	Does the ASP respond with an Identity check request message if the TEI Identity verify procedure is implemented and if an Identity verify message is received from the user?	M	5.3.5	Yes:XNo:_X:X5

	Establishment and release of MF operation			
PC 34	Does the implementation support MF operation?	M	5.5	Yes:X No:_X:_
	Does the implementation re-establish the MF operation:			
PC 35.1	On receiving a SABME command while in the MF mode of operation?	M	5.7.1	Yes:X No:_X:_
PC 35.2	If N200 retransmission failures occur while in the timer recovery condition?	M	5.7.1	Yes:X No:_X:_
PC 35.3	On receiving an undefined frame?	M	3.6.1, 5.8.5	Yes:X No:_X:_
PC 35.4	On receiving a supervisory or unnumbered frame with incorrect length?	M	5.7.1, 5.8.5	Yes:X No:_X:_
PC 35.5	On receiving an invalid sequential number N(R)?	M	5.7.1, 5.8.5	Yes:X No:_X:_
PC 35.6	On receiving a frame with an information field exceeding N201 (maximum number of octets)?	M	5.7.1, 5.8.5	Yes:X No:_X:_
PC 35.7	On receiving a FRMR response?	M	5.7.1, 5.8.6	Yes:X No:_X:_
PC 35.8	On receiving an unsolicited DM (F=0) response while in MF operation?	M	5.7.1	Yes:X No:_X:_
PC 35.9	On receiving an unsolicited DM (F=1) response while in the timer recovery condition?	M	5.7.1	Yes:X No:_X:_
	Error conditions			
PC 36	Does the implementation transmit a REJ frame in the event of a N(S) sequence error if the receiver condition is normal?	M	5.8.1	Yes:X No:_X:_
PC 37.1	Does the implementation issue an MDL-ERROR-IND (C) or MDL-ERROR-IND (D) and initiate TEI check on the receipt of an unsolicited UA response in the TEI assigned state?	O.3	5.3.4.2, 5.5.4, 5.8.7 appendix II	Yes:X No:_X:_
PC 37.2	Does the implementation issue an MDL-ERROR-IND (C) or MDL-ERROR-IND (D) and remove TEI on the receipt of an unsolicited UA response in the TEI assigned state?	O.3	5.3.4.2, 5.5.4, 5.8.7 appendix II	Yes:_No:X X:_

PC 38.1	Does the implementation issue an MDL-ERROR-IND (D) and initiate TEI check procedure on the receipt of an unsolicited UA response in the Awaiting establishment state?	O.4	5.3.4.2, 5.8.7, appendix II	Yes:X No:_X:_
PC 38.2	Does the implementation issue an MDL-ERROR-IND (D) and remove TEI on the receipt of an unsolicited UA response in the Awaiting establishment state?	O.4	5.3.4.2, 5.8.7, appendix II	Yes:_No:X X:_
PC 39.1	Does the implementation issue an MDL-ERROR-IND (D) and initiate TEI check procedure on the receipt of an unsolicited UA response in the Awaiting release state?	O.5	5.3.4.2, 5.8.7, appendix II	Yes:X No:_X:_
PC 39.2	Does the implementation issue an MDL-ERROR-IND (D) and remove TEI on the receipt of an unsolicited UA response in the Awaiting release state?	O.5	5.3.4.2, 5.8.7, appendix II	Yes:_No:_X:_
PC 40.1	Does the implementation issue an MDL-ERROR-IND (C) or MDL-ERROR-IND (D) and initiate TEI check procedure on the receipt of an unsolicited UA response in the MF established state?	O.6	5.3.4.2, 5.8.7, appendix II	Yes:_No:X X:_
PC 40.2	Does the implementation issue an MDL-ERROR-IND (C) or MDL-ERROR-IND (D) and remove TEI on the receipt of an unsolicited UA response in the MF established state?	O.6	5.3.4.2, 5.8.7, appendix II	Yes:_No:X X:_
PC 41.1	Does the implementation issue an MDL-ERROR-IND (C) or MDL-ERROR-IND (D) and initiate TEI check procedure on the receipt of an unsolicited UA response in the Timer recovery state?	O.7	5.3.4.2, 5.8.7, appendix II	Yes:X No:_X:_
PC 41.2	Does the implementation issue an MDL-ERROR-IND (C) or MDL-ERROR-IND (D) and remove TEI on the receipt of an unsolicited UA response in the Timer recovery state?	O.7	5.3.4.2, 5.8.7, appendix II	Yes:_No:X X:_
PC 42	Does the implementation issue an MDL-ERROR-IND (G) and initiate TEI check procedure, after N200 unsuccessful retransmissions of SABME in the Awaiting establishment state?	O.8	5.3.4.2, 5.5.1.3, appendix II	Yes:X No:_X:_
PC 43	Does the implementation issue an MDL-ERROR-IND (H) and initiate TEI check procedure, after N200 unsuccessful retransmissions of DISC in the Awaiting release state?	O.9	5.3.4.2, 5.5.3.3, appendix II	Yes:X No:_X:_

	Other network management actions:			
PC 44.1	Does the implementation log the event on error code A?	O	appendix II	Yes:X No:_X:_
PC 44.2	Does the implementation log the event on error code B?	O	appendix II	Yes:X No:_X:_
PC 44.3	Does the implementation log the event on error code E?	O	appendix II	Yes:X No:_X:_
PC 44.4	Does the implementation log the event on error code F?	O	appendix II	Yes:X No:_X:_
PC 44.5	Does the implementation log the event on error code I?	O	appendix II	Yes:X No:_X:_
PC 44.6	Does the implementation log the event on error code J?	O	appendix II	Yes:X No:_X:_
PC 44.7	Does the implementation log the event on error code K?	O	appendix II	Yes:X No:_X:_
PC 44.8	Does the implementation log the event on error code L?	O	appendix II	Yes:X No:_X:_
PC 44.9	Does the implementation log the event on error code N?	O	appendix II	Yes:X No:_X:_
PC 44.10	Does the implementation log the event on error code O?	O	appendix II	Yes:X No:_X:_

O.1	PC 8 and PC 9	Support of at least one of these items is required.
O.2	PC 19.1 and PC 19.2	Support of at least one of these items is required.
O.3	PC 37.1 and PC 37.2	Support of one, and only one, of these items is required.
O.4	PC 38.1 and PC 38.2	Support of one, and only one, of these items is required.
O.5	PC 39.1 and PC 39.2	Support of one, and only one, of these items is required.
O.6	PC 40.1 and PC 40.2	Support of one, and only one, of these items is required.
O.7	PC 41.1 and PC 41.2	Support of one, and only one, of these items is required.
O.8	PC 42	Support of this item is required. Support of this item is
O.9	PC 43	required.

Note: The layer 2 management procedures are optional on point-to-point configurations using a single data link connection and a non-automatic TEI value. See ETS 300 125 [1] annex A.

Comments:

X1: Layer 2 always supports one link for SAPI=0, and TEI=0 is allocated for this purpose

X2: Since a primary rate access is operated in a point to point configuration (at layer 1) with only one data link connection, use of broadcasting data link connection is not considered as mandatory.
This is conform the Proximus requirement CT-DE section F.A.5 par.4.2

X3: UI frames are only supported for management frames (SAPI=63, TEI127)
According to the Proximus requirement CT-DE section F.A.5 par.5.2.2 for point-to-point operation, the network shall not use UI frames for the support of signalling.

X4: Identity request messages are denied since only TEI=0 is used

X5: but only if received TEI is 0, otherwise an Id remove message is sent

6.6 Frames - protocol data units

Unless otherwise indicated all references in table 2 are to ETS 300 125 [1], Part II.

Table 2: Frames, protocol data units

Index	Protocol feature	Status	Reference	Support
	Frame Format			
FR 1	Format A	M	2.1	Yes:X No:_X:_
FR 2	Format B	M	2.1	Yes:X No:_X:_
	Flag Sequence			
FR 3	Opening flag	M	2.2	Yes:X No:_X:_
FR 4	Closing flag	M	2.2	Yes:X No:_X:_
	Address Field			
FR 5	Two octets	M	2.3	Yes:X No:_X:_
FR 6	If the implementation permits concurrent LAPB data link connection with the D-channel, is the one octet address field recognized?	M	2.3	Yes:_No:_X:X6
	Control Field			
	Unacknowledged operation			
FR 7	Single octet	M	2.4	Yes:X No:_X:_
	MF operation			
FR 8	Two octets	M	2.4	Yes:X No:_X:_
FR 9	Single octet (unnumbered frame)	M	2.4	Yes:X No:_X:_
	Order of Bit Transmission			
FR 10	Ascending numerical order	M	2.8.2	Yes:X No:_X:_
	Field Mapping Convention			
FR 11	Lowest bit number = Lowest order value	M	2.8.3	Yes:X No:_X:_
	Do all transmitted frames contain the following fields?			

Index	Protocol feature	Status	Reference	Support
FR 12.1	- Flag	M	2.2	Yes:X No:_X:_
FR 12.2	- Address	M	2.3	Yes:X No:_X:_
FR 12.3	- Control	M	2.4	Yes:X No:_X:_
FR 12.4	- FCS	M	2.7	Yes:X No:_X:_
FR 13	Is the implementation capable of accepting the closing flag as the opening flag of the next frame?	M	2.2	Yes:X No:_X:_
FR 14	Does the implementation generate a single flag as above?	O	2.2	Yes:X No:_X:_
FR 15	Does the implementation ignore one flag, or two or more consecutive flags that do not delimit frames?	M	2.2	Yes:X No:_X:_
FR 16	Are all invalid frames discarded and no action taken?	M	2.9	Yes:X No:_X:_
FR 17	Are seven or more contiguous 1 bits interpreted as an abort and the associated frames ignored?	M	2.10	Yes:X No:_X:_
FR 18	If the implementation supports the automatic negotiation of data link layer parameters, does it support XID frames?	N/A	3.6.12, appendix IV	
FR 19	Does the implementation discriminate invalid frames and frames with information field exceeding N201 value?	M	5.8.5	Yes:X No:_X:_
FR 20	Does the implementation discard frame types associated with an application which is not implemented?	M	3.6.1	Yes:X No:_X:_
FR 21	Does the implementation discard unbounded frames?	M	5.8.5	Yes:X No:_X:_

Comments:

X6: concurrent LAPB data link connection is not supported

6.7 System parameters

Unless otherwise indicated all references in table 3 are to ETS 300 125 [1], Part II.

Table 3: System parameters

Index	System parameter	Status	Reference	Support
SP 1	Retransmission time (T200)	M	5.9.1	Yes:X No:_Value:_
SP 2	Maximum number of retransmissions (N200)	M	5.9.2	Yes:X No:_Value:_
	Maximum number of octets in information field (N201):			
SP 3	For SAP supporting primary rate access signalling	M	5.9.3	Yes:X No:_Value:_
SP 4	For SAP supporting primary rate access packet procedures on the D-channel	M	5.9.3	Yes:_No:X Value:_
	Maximum number of outstanding I frames (k)			
SP 5	For SAP supporting primary rate access signalling	M	5.9.5	Yes:X No:_Value:_
SP 6	For SAP supporting primary rate access packet procedures on the D-channel	M	5.9.5	Yes:_No:X Value:_
SP 7	Minimum time between retransmission of TEI Identity Check Request messages (T201)	M	5.9.6	Yes:X No:_Value:_
	If the implementation supports the data link monitor function:			
SP 8	Maximum time allowed without frames being exchanged (T203)	M	5.9.8	Yes:X No:_Value:_
	If the implementation supports the automatic negotiation of data link parameters,			
SP 9	Retransmission time of XID frame (TM20)	N/A	appendix IV.2 SP	
10	Maximum number of retransmissions of XID frame (NM20)	N/A	appendix IV.2	

Comments:

Default values as specified by ETS 300 125 are applied.

LAYER 3

PART 3

ALCATEL

PICS proforma for ETS 300 403-1 for point-to-point BA (Alcatel - S12)

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 sections 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.

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

Status column:

The following notations, defined in ISO/IEC 9646-7 [4], are used for the status column:

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].

I	Irrelevant or out-of-scope - this capability is outside the scope of the ETS to which this PICS proforma applies and is not subject to conformance testing in this context.
M	Mandatory - the capability is required to be supported.
N/A	Not Applicable - in the given context, it is impossible to use the capability. No answer in the support column is required.
O	Optional - the capability may be supported or not.
O.i	qualified optional - for mutually exclusive or selectable options from a set. "i" is an integer that identifies an unique group of related optional items and the logic of their selection, defined below the table.
X	eXcluded or prohibited - there is a requirement not to use this capability in a given context.

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:

[ ] Yes [ ] No	Tick "Yes" if item is supported, tick "No" if item is not supported.
[ ] N/A	Tick "N/A" if the item is "not applicable".

Prerequisite line:

A prerequisite line takes the form: Prerequisite: <predicate>.
A prerequisite line after a subclause heading or table title indicates that the whole subclause or the whole table is not required to be completed if the predicate is FALSE.

A.1.3 Instructions for completing the PICS proforma

The supplier of the implementation shall complete the PICS proforma. For each row in each PICS proforma table the supplier shall enter an explicit answer (i.e. by ticking the appropriate "Yes", "No", or "N/A" in each of the support column boxes provided. Where a support column box is left blank, or where it is marked "N/A" without any tickbox, no answer is required. If necessary, the supplier may enter additional comments at the end of each table, or separately.
More detailed instructions may be found at the beginning of each section 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

16/12/2002.....

A.2.2 Implementation Under Test (IUT) identification

IUT name:

A1000S12.....
.....
IUT version:

PACK 8.....

A.2.3 System Under Test (SUT) identification

SUT name:

A1000S12.....
.....
Hardware configuration:

BA
.....
.....
Operating system:

S12 .....
.....

A.2.4 Product supplier

Name:

ALCATEL BELL n.v. .....
E-mail address:

http://ALCATEL.be .....
Address:

Francis Wellesplein 1
B-2018 Antwerpen.....
België.....
.....
Telephone number:

+32 3 2404011 .....
Facsimile number:

+32 3 2409999 .....
Additional information:
.....
.....
.....

A.2.5 Client

Name:

PROXIMUS .....

E-mail address:
.....
Address:
.....
.....
.....
Telephone number:
.....
Facsimile number:
.....
Additional information:
.....
.....
.....

A.2.6 PICS contact person

Name:
KAZIMIERZ BOHDANOWICZ.....
E-mail address:
.....
Address:
Francis Wellesplein 1
B-2018 Antwerpen.....
België.....
.....
.....
Telephone number:
32/3/2409749 .....
Facsimile number:
+32 3 2409999 .....
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 (subclauses A.7.5 and A.8.5), the PICS proforma asks questions about the information elements (parameters) supported in messages (PDUs) received by the IUT. This subclause explains, in the context of 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 ?

[X] **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
R1	not used				
	Major role				
R 2.1	the user role		O.1		[ ]Yes [X]No
R 2.2	the network role		O.1		[X]Yes [ ]No
	Type of interface				
R 3.1	requirements at the coincident S and T reference point		O.2		[ ]Yes [X]No
R 3.2	requirements for interworking with private ISDNs at the T reference point		O.2		[X]Yes [ ]No
R4	not used				
R5	not used				
R 6.1	basic access		O.3		[X]Yes [ ]No
R 6.2	primary rate access		O.3		[ ]Yes [X]No
R 7.1	point-to-point configuration	R 6.1 R 6.2	O.4 M		[X]Yes [ ]No
R 7.2	multi-point configuration	R 6.1 R 6.2	O.4 N/A		[ ]Yes [X]No [ ]N/A

O.1 Support of one, and only one, of these options is required.
O.2 Support of one, and only one, of these options is required. Support of
O.3 one, and only one, of these options is required. Support of one, and
O.4 only one, of these options is required.

Comments:

A.8 Network

The tables provided in this subclause need only to be completed for network implementations.
Prerequisite: R 2.2

A.8.1 Type of implementation

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, [X] 5.3.4.1, 5.4	Yes [ ]No
TIn 4	support one or more "existing services" (note)		I	5.13	[X]Yes [ ]No
TIn 5	support services other than "existing services" (note)		I	5.13	[X]Yes [ ]No
TIn 6	provide an internal alerting supervision timing function		I	9.1, table 9.1	[ ]Yes [X]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 subclauses 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	[X]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	[X]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	[X]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)	[X]Yes [ ]No
MCn 1.4	transit network selection		O	5.1.10, annex C	[ ]Yes [X]No
MCn 1.5	provision of in-band tones/announcements, during TIn 3 call establishment at the originating interface	NOT TIn 3	M N/A	5.1.2, 5.1.3, 5.1.7, 5.4	[X]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)	[X]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	[X]Yes [ ]No
MCn 2.1	called party addressing information sent only in the SETUP message (en-bloc receiving from the user's point of view)		O.20	5.2.1, 5.2.5.1	[X]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 [X]No

(continued)

Table A.62 (concluded): Major capabilities of the network role

Item	Major capability **Does the implementation support...**	Conditions for status	Status	Reference	Support
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)	[X]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	[X]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 [X]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)	[X]Yes [ ]No
MCn 3	accept call clearing initiated by the user	M	5.3.3	[X]Yes [ ]No MCn 4.1	call clearing
initiated by the network when		TIn 3	M	5.3.4.1	[X]Yes [ ]No
MCn 4.2	tones/announcements provided call clearing initiated by the network when tones/announcements not provided	NOT TIn 3	N/A M	5.3.4.2	[ ] N/A [X]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	[X]Yes [ ]No
MCn 5.2	initiation of restart procedure	R 7.1 NOT R 7.1	M O	5.5.1	[X]Yes [ ]No
MCn 6	processing of a call rearrangement request	R 6.1 R 6.2	O N/A	5.6	[ ]Yes [X]No [ ] N/A
MCn 7.1	response to status enquiry request		M	5.8.10	[X]Yes [ ]No
MCn 7.2	initiation of status enquiry procedure		M	5.8.10	[X]Yes [ ]No
MCn 8	symmetric call operation		X	2.1, annex D	[ ]Yes [X]No
MCn 9	processing of network specific facility request		O	annex E	[ ]Yes [X]No
MCn 11	procedures for the control of the user signalling bearer service		I	1.1, 2.2, 3.2, 7	[ ]Yes [X]No
MCn 12	procedures for establishment of bearer connection prior to call acceptance		O	annex K	[ ]Yes [X]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 [X]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 [X]N/A
MCn 13	message segmentation procedures		O	annex H	[X]Yes [ ]No
MCn 14	D-channel backup procedure		X	annex F	[ ]Yes [X]No
MCn 15	procedures for bearer service change		X	annex L	[ ]Yes [X]No
MCn 16	procedures for the control of packet communications		I	1.1, 3.3, 6	[X]Yes [ ]No
MCn 17	procedures for the control of circuit-mode multirate connections		O	8	[ ]Yes [X]No
MCn 18	resolution of call collisions	M	5.7	[X]Yes [ ]No MCn 19	handling of
error conditions	M	5.8	[X]Yes [ ]No	MCn 20.1	initiation of a
user notification p	rocedure	MCn 6	M	5.9	[ ]Yes [ ]No
		NOT MCn 6	N/A		[X]N/A
MCn 20.2	forwarding of user notification		M	5.9	[X]Yes [ ]No
MCn 21.1	forwarding of BC selection request across the network (procedures at the originating side)		O	5.10, 5.11.1	[X]Yes [ ]No
MCn 21.2	procedures for BC selection at the destination side		O	5.10, 5.11.2, 5.11.3	[X]Yes [ ]No
MCn 22.1	forwarding of HLC selection request across the network (procedures at the originating side)		O	5.10, 5.12.1	[X]Yes [ ]No
MCn 22.2	procedures for HLC selection at the destination side		O	5.10, 5.12.2, 5.12.3	[X]Yes [ ]No
MCn 23.1	status request procedures for "existing services"	TIn 4 NOT TIn 4	M N/A	5.13	[X]Yes [ ]No [ ]N/A
MCn 23.2	status request procedures for services other than "existing services"	TIn 5 NOT TIn 5	M N/A	5.13	[X]Yes [ ]No [ ]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	[X]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 [X]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 [X]N/A
	Call establishment at the originating interface				
SCn 101	recognition of the Sending complete information element		M	5.1.1, 5.1.3	[X]Yes [ ]No
SCn 102	recognition of "#" as a sending complete indication		O	5.1.1, 5.1.3	[X]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	[X]Yes [ ]No
SCn 111	transmission of a sending complete indication	O	5.2.1, 5.2.4	[X]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	[X]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 [X]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 [X]No comment 1
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 [X]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 [X]N/A
SCn 4.2	acceptance of up to 8 SETUP ACKNOWLEDGE messages from the called user (broadcast data link MCn 2.2 case)	MCn 2.5 AND NOT MCn 2.5 OR NOT MCn 2.2	O.22 N/A	5.2.4	[ ]Yes [ ]No [X]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 [X]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 [X]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 [X]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	120.1 NOT SCn 120.1	O N/A	5.3.4bis	[ ]Yes [ ]No [X]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 [X]N/A

(continued)

Table A.63 (continued): Subsidiary capabilities of the network role

Item	Subsidiary capability	Conditions for status	Status	Reference	Support
	Does the implementation support...				
	Restart				
SCn 125.1	initiation of restart procedure on "indicated channel"	MCn 5.2	M	5.5.1	[X]Yes [ ]No
		NOT MCn 5.2	N/A		[ ]N/A
SCn 125.2	initiation of restart procedure on "single interface" (or "all interfaces")	MCn 5.2	M	5.5.1	[X]Yes [ ]No
		NOT MCn 5.2	N/A		[ ]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	[X]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 [X]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 [X]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)	[X]Yes [ ]No
SCn 19	on occurrence of a message type or message sequence error, transmission of a STATUS message		O.25	5.8.4	[X]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 [X]No
SCn 23	processing of information elements regardless of their order in the message		O.26	5.8.5.1	[ ]Yes [X]No
SCn 24	ignoring out of sequence information elements		O.26	5.8.5.1	[X]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	[X]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 [X]No
SCn 37	on occurrence of non-mandatory information element content error, transmission of a STATUS message		O	5.8.7.2	[X]Yes [ ]No
SCn 38	truncation and processing of non-mandatory access information elements that are too long		O	5.8.7.2	[ ]Yes [X]No
	Data link failure				
SCn 140	use of Cause no. 41 "temporary failure"	O	5.8.9 a)	[X]Yes [ ]No SCn 141.1 re-	
establishment of	the data link connection if DL-RELEASE-INDICATION received after sending SETUP	MCn 2.4	O.27	5.2.1, 5.8.9 a)	[ ]Yes [X]No
		NOT MCn 2.4	N/A		[ ]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)	[X]Yes [ ]No
SCn 45.1	transmission of a STATUS message		O.28	5.8.9 b)	[ ]Yes [X]No
SCn 45.2	initiation of the status enquiry procedure		O.28	5.8.9 b)	[X]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	[X]Yes [ ]No
	Receiving a STATUS message				
SCn 160.1	clearing the call on a call state mismatch		O.29	5.8.11	[X]Yes [ ]No
SCn 160.2	attempt to recover from a call state mismatch by implementation dependent means		O.29	5.8.11	[ ]Yes [X]No

(continued)

Table A.63 (concluded): Subsidiary capabilities of the network role

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 [X]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 [X]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 [X]N/A
SCn 171.2	a restriction that the 1536 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 [X]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 [X]N/A
SCn 172.2	selection of all the B-channels on another interface MCn 17 controlled by the D-channel	NOT MCn 17	X N/A	8.1.2, 8.2.2.1	[ ]Yes [ ]No [X]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 [X]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. Support of
O.24 at least one of these options is required. Support of at least one of
O.25 these options is required. Support of at least one of these options is
O.26 required. Support of at least one of these options is required.
O.27 Support of at least one of these options is required. Support of at
O.28 least one of these options is required. Support of at least one of
O.29 these options is required.
O.30 "Inappropriate" messages are those that are neither a SETUP message nor a message specified to use the data link
NOTE: unacknowledged information transfer service in support of another implemented application.

Comments:
1. Not supported for basic call. In combination with CW supplementary service : Yes.

A.8.4 Protocol data units

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

A.8.4.1 Messages received by the network

Indicating support for an item in table A.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	Conditions for status of...	Status	Reference	Support
MRn 1	ALERTING		M	3.1.1, 5.2.5.2	[X]Yes [ ]No
MRn 2	CALL PROCEEDING		M	3.1.2, 5.2.5.2	[X]Yes [ ]No
MRn 4	CONNECT		M	3.1.3, 5.2.7	[X]Yes [ ]No
MRn 5	CONNECT ACKNOWLEDGE		M	3.1.4, 5.1.8	[X]Yes [ ]No
MRn 6	DISCONNECT		M	3.1.5, 5.3.3	[X]Yes [ ]No
MRn 8	INFORMATION		M	3.1.6, 5.1.3	[X]Yes [ ]No
MRn 9	NOTIFY		M	3.1.7, 5.6.2, 5.6.4, 5.6.7, 5.9	[X]Yes [ ]No
MRn 10	PROGRESS	M	3.1.8, 5.1.6	[X]Yes [ ]No MRn 11	RELEASE
	M	3.1.9, 5.3	[X]Yes [ ]No	MRn 12	RELEASE
COMPLETE	M	3.1.10, 5.3	[X]Yes [ ]No	MRn 13	RESTART
	MCn 5.1	M	3.4.1, 5.5.2	[X]Yes [ ]No	
		NOT MCn 5.1	N/A		[ ]N/A
MRn 14	RESTART ACKNOWLEDGE	MCn 5.2	M	3.4.2, 5.5.1	[X]Yes [ ]No
		NOT MCn 5.2	N/A		[ ]N/A
MRn 15	RESUME	MCn 6	M	3.1.11, 5.6.4	[ ]Yes [ ]No
		NOT MCn 6	N/A		[X]N/A
MRn 16	RESUME ACKNOWLEDGE		N/A		N/A
MRn 17	RESUME REJECT	N/A	N/A	MRn 18 SEGMENT	MCn
13	M	3.5.1, annex H	[X]Yes [ ]No		
		NOT MCn 13	N/A		[ ]N/A
MRn 19	SETUP		M	3.1.14, 5.1.1	[X]Yes [ ]No
MRn 20	SETUP ACKNOWLEDGE		M	3.1.15, 5.2.4	[ ]Yes [X]No
MRn 21	STATUS		M	3.1.16, 3.4.3, 5.8.11	[X]Yes [ ]No
MRn 22	STATUS ENQUIRY	M	3.1.17, 5.8.10		[X]Yes [ ]No
MRn 23	SUSPEND	MCn 6	M	3.1.18, 5.6.1	[ ]Yes [ ]No
		NOT MCn 6	N/A		[X]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	[X]Yes [ ]No MTn 2	CALL
PROCEEDING	M	3.1.2, 5.1.5	[X]Yes [ ]No	MTn 4	CONNECT
	M	3.1.3, 5.1.8	[X]Yes [ ]No	MTn 5	CONNECT
ACKNOWLEDGE		M	3.1.4, 5.2.8	[X]Yes [ ]No MTn 6	
	DISCONNECT	M	3.1.5, 5.3.4	[X]Yes [ ]No MTn 8	
	INFORMATION	MCn 2.2	M	3.1.6, 5.2.4	[ ]Yes [X]No
		NOT MCn 2.2	O		
MTn 9	NOTIFY		M	3.1.7, 5.9	[X]Yes [ ]No
MTn 10	PROGRESS		M	3.1.8, 5.1.6, 5.2.6, 5.4, annex K	[X]Yes [ ]No
MTn 11	RELEASE	M	3.1.9, 5.3	[X]Yes [ ]No MTn 12	RELEASE
COMPLETE	M	3.1.10, 5.3	[X]Yes [ ]No	MTn 13	RESTART
	MCn 5.2	M	3.4.1, 5.5.1	[X]Yes [ ]No	
		NOT MCn 5.2	N/A		[ ]N/A
MTn 14	RESTART ACKNOWLEDGE	MCn 5.1	M	3.4.2, 5.5.2	[X]Yes [ ]No
		NOT MCn 5.1	N/A		[ ]N/A
MTn 15	RESUME	N/A	N/A MTn 16	RESUME	
ACKNOWLEDGE		MCn 6	M	3.1.12, 5.6.4	[
]Yes [ ]No					
		NOT MCn 6	N/A		[X]N/A
MTn 17	RESUME REJECT	MCn 6	M	3.1.13, 5.6.5	[ ]Yes [ ]No
		NOT MCn 6	N/A		[X]N/A
MTn 18	SEGMENT	MCn 13	M	annex H	[X]Yes [ ]No
		NOT MCn 13	N/A		[ ]N/A
MTn 19	SETUP		M	3.1.14, 5.2.1	[X]Yes [ ]No
MTn 20	SETUP ACKNOWLEDGE		M	3.1.15, 5.1.3	[X]Yes [ ]No
MTn 21	STATUS		M	3.1.16, 3.4.3, 5.8.10, 5.8.10, 5.8.11	[X]Yes [ ]No
MTn 22	STATUS ENQUIRY		M	3.1.17, 5.8.10	[X]Yes [ ]No
MTn 23	SUSPEND	N/A	N/A MTn 24	SUSPEND	
ACKNOWLEDGE		MCn 6	M	3.1.19, 5.6.2	[
]Yes [ ]No					
		NOT MCn 6	N/A		[X]N/A
MTn 25	SUSPEND REJECT	MCn 6	M	3.1.20, 5.6.3	[ ]Yes [ ]No
		NOT MCn 6	N/A		[X]N/A
Comments:					

A.8.5 PDU parameters

The tables in this subclause ask questions related to the support of PDU parameters in messages received and transmitted by the IUT in the network role. In the DSS1 protocol, PDU parameters are known by the term "information elements".
Subclause A.8.5.1 contains tables relating to messages received by the IUT in the network role.
Subclause A.8.5.2 contains tables relating to messages transmitted by the IUT in the network role.
Tables A.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	[X]Yes [ ]No
MRn-IE30	Call reference		M	3.1, 4.3	[X]Yes [ ]No
MRn-IE31	Message type		M	3.1, 4.4	[X]Yes [ ]No
MRn-IE25	Shift		M	3.1, 4.5.2, 4.5.3, 4.5.4	[X]Yes [ ]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	[X]Yes [ ]No
MTn-IE30	Call reference		M	3.1, 4.3	[X]Yes [ ]No
MTn-IE31	Message type		M	3.1, 4.4	[X]Yes [ ]No
MTn-IE25	Shift		O	3.1, 4.5.2, 4.5.3, 4.5.4	[ ]Yes [X]No
Comments:					

Table A.68 covers those information elements defined by ITU-T Recommendation Q.931, 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	[ ]Yes [X]No
Mn-IE26	Signal		X	4.5.28	[ ]Yes [X]No
Comments:					

Table A.69 covers those information elements defined by ITU-T Recommendation Q.931, 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 subclause states that the implementation has the ability to process the information elements listed in the specified received messages. Such support does not necessarily mean that the indicated information element is included in every instance of the received message.

Table A.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	M	3.1.1, 5.11.3	[X]Yes [ ]No
		NOT MCn 21.2	N/A		[ ]N/A
MRn1-IE9	Channel identification		M	3.1.1, 5.2.3	[X]Yes [ ]No
MRn1-IE20	Progress indicator		M	3.1.1, 5.2.6, 5.11.3, 5.12.3	[X]Yes [ ]No
MRn1-IE12	Display		N/A		N/A
MRn1-IE14	High layer compatibility (T) (note)	MCn 22.2	M	3.1.1, 5.12.3	[X]Yes [ ]No
		NOT MCn 22.2	N/A		[ ]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	M	3.1.2, 5.11.3	[X]Yes [ ]No
		NOT MCn 21.2	N/A		[ ]N/A
MRn2-IE9	Channel identification		M	3.1.2, 5.2.3	[X]Yes [ ]No
MRn2-IE20	Progress indicator		M	3.1.2, 5.2.6, 5.11.3, 5.12.3	[X]Yes [ ]No
MRn2-IE12	Display		N/A		N/A
MRn2-IE14	High layer compatibility (T) (note)	MCn 22.2	M	3.1.2, 5.12.3	[X]Yes [ ]No
		NOT MCn 22.2	N/A		[ ]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	M	3.1.3, 5.11.2, 5.11.3	[X]Yes [ ]No
		NOT MCn 21.2	N/A		[ ]N/A
MRn4-IE9	Channel identification		M	3.1.3, 5.2.3	[X]Yes [ ]No
MRn4-IE20	Progress indicator		M	3.1.3, 5.2.6, 5.11.3, 5.12.3	[X]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	[X]Yes [ ]No
MRn4-IE14	High layer compatibility (T) (note 2)	MCn 22.2	M	3.1.3, 5.12.2	[X]Yes [ ]No
		NOT MCn 22.2	N/A		[ ]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	[X]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	[X]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	[X]Yes [ ]No
MRn8-IE4	Called party number		M	3.1.6, 5.1.1, 5.1.3	[X]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	[X]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	M	3.1.8, 5.11.3	[X]Yes [ ]No
		NOT MCn 21.2	N/A		[ ]N/A
MRn10-IE8	Cause (T)		I	3.1.8	[X]Yes [ ]No
MRn10-IE20	Progress indicator		M	3.1.8, 5.2.6, 5.11.3, 5.12.3	[X]Yes [ ]No
MRn10-IE12	Display		N/A		N/A
MRn10-IE14	High layer compatibility (T) (note)	MCn 22.2	M	3.1.8, 5.12.3	[X]Yes [ ]No
		NOT MCn 22.2	N/A		[ ]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	[X]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	[X]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	M	3.4.1, 5.5	[X]Yes [ ]No
		NOT MRn 13	N/A		[ ]N/A
MRn13-IE12	Display		N/A		N/A
MRn13-IE22	Restart indicator	MRn 13	M	3.4.1, 5.5	[X]Yes [ ]No
		NOT MRn 13	N/A		[ ]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	M	3.4.2, 5.5	[X]Yes [ ]No
		NOT MRn 14	N/A		[ ]N/A
MRn14-IE12	Display		N/A		N/A
MRn14-IE22	Restart indicator	MRn 14	M	3.4.2, 5.5	[X]Yes [ ]No
		NOT MRn 14	N/A		[ ]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	M	3.1.11, 5.6.4, 5.6.5	[ ]Yes [ ]No
		NOT MRn 15	N/A		[X]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	M	3.5.1, annex H	[X]Yes [ ]No
		NOT MRn 18	N/A		[ ]N/A
MRn18-IEx	"Segment"	MRn 18	M	3.5.1, annex H	[X]Yes [ ]No
		NOT MRn 18	N/A		[ ]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	[X]Yes [ ]No
MRn19-IE1	Bearer capability		M	3.1.14, 5.1.1, 5.11.1	[X]Yes [ ]No
MRn19-IE9	Channel identification	M	3.1.14, 5.1.2	[X]Yes [ ]No	MRn19-IE20
	Progress indicator	M	3.1.14, 5.1.6	[X]Yes [ ]No	MRn19-IE18
	Network specific facilities	MCn 9	M	3.1.14, annex E	[ ]Yes [ ]No
		NOT MCn 9	N/A		[X]N/A
MRn19-IE12	Display		N/A		N/A
MRn19-IE15	Keypad facility (T) (note 1)		O	3.1.14, 5, 5.1.3	[X]Yes [ ]No
MRn19-IE6	Calling party number		M	3.1.14	[X]Yes [ ]No
MRn19-IE7	Calling party subaddress		M	3.1.14	[X]Yes [ ]No
MRn19-IE4	Called party number		M	3.1.14, 5.1.1, 5.1.3	[X]Yes [ ]No
MRn19-IE5	Called party subaddress (T) (note 2)		M	3.1.14, 5.1.1, 5.1.3	[X]Yes [ ]No
MRn19-IE27	Transit network selection	MCn 1.4	M	3.1.14, 5.1.10, annex C	[ ]Yes [ ]No
		NOT MCn 1.4	N/A		[X]N/A
MRn19-IE16	Low layer compatibility (T) (note 3)		M	3.1.14, annex I, annex J	[X]Yes [ ]No
MRn19-IE14	High layer compatibility (T) (note 4)		M	3.1.14, 5.12.1	[X]Yes [ ]No

NOTE 1: The support of this parameter implies the use of the information supplied in connection with one or more supplementary services.

NOTE 2: The support of this parameter implies the ability to pass this parameter to a non-protocol entity (e.g. call control) so that it be transported transparently between a call originating entity and the addressed entity.

NOTE 3: The support of this parameter implies the ability to either a) pass this parameter to a non-protocol entity (e.g. call control) so that it be transported transparently between a call originating entity and the addressed entity; or b) 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, 5.11.3, 5.12.3	[ ]Yes [ ]No
MRn20-IE12	Display		N/A		N/A

Comments:
This table is N/A : Receipt of SETUP ACKNOWLEDGE by the network is not supported.

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	[X]Yes [ ]No
MRn21-IE3	Call state		M	3.1.16, 3.4.3, 5.8.3.2, 5.8.10, 5.8.11	[X]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	M	3.1.18, 5.6.1, 5.6.2, 5.6.3	[ ]Yes [ ]No
		NOT MRn 23	N/A		[X]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 subclause states that the implementation has the ability to generate, and to transmit in the specified message, the information elements listed. Such support does not necessarily mean that the indicated information element is included in every instance of the transmitted message.

Table A.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	[X]Yes [ ]No [ ]N/A
MTn1-IE9	Channel identification		X		[ ]Yes [X]No
MTn1-IE20	Progress indicator		M	3.1.1, 5.1.6, 5.11.1, 5.12.1, annex K	[X]Yes [ ]No
MTn1-IE12	Display	O	3.1.1	[ ]Yes [X]No	MTn1-IE14 High layer
compatibility	MCn 22.1	M NOT MCn 22.1	3.1.1, 5.12.1 N/A	[X]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	[X]Yes [ ]No [ ]N/A
MTn2-IE9	Channel identification		M	3.1.2, 5.1.2	[X]Yes [ ]No
MTn2-IE20	Progress indicator		M	3.1.2, 5.1.6, 5.11.1, 5.12.1	[X]Yes [ ]No
MTn2-IE12	Display	O	3.1.2	[ ]Yes [X]No	MTn2-IE14 High layer
compatibility	MCn 22.1	M NOT MCn 22.1	3.1.2, 5.12.1 N/A	[X]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	[X]Yes [ ]No [ ]N/A
MTn4-IE9	Channel identification		X		[ ]Yes [X]No
MTn4-IE20	Progress indicator		M	3.1.3, 5.1.6, 5.11.1, 5.12.1	[X]Yes [ ]No
MTn4-IE12	Display	O	3.1.3	[ ]Yes [X]No	MTn4-IE11 Date/time
	O	3.1.3	[X]Yes [ ]No	MTn4-IE16	Low layer
compatibility	O	3.1.3, annex J	[X]Yes [ ]No	MTn4-IE14	High layer
compatibility	MCn 22.1	M NOT MCn 22.1	3.1.3, 5.12.1 N/A	[X]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 [X]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	[X]Yes [ ]No
MTn6-IE20	Progress indicator		M	3.1.5, 5.3.4.1,	[X]Yes [ ]No
MTn6-IE12	Display		O	3.1.5	[ ]Yes [X]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	O	3.1.6, 5.2.4	[ ]Yes [ ]No [X]N/A
		NOT MTn 8 OR NOT SCn 112.1	N/A		
MTn8-IE8	Cause	MTn 8	O	3.1.6	[ ]Yes [ ]No
		NOT MTn 8	N/A		[X]N/A
MTn8-IE12	Display	MTn 8	O	3.1.6	[ ]Yes [ ]No
		NOT MTn 8	N/A		[X]N/A
MTn8-IE15	Keypad facility	MTn 8	O	3.1.6	[ ]Yes [ ]No
		NOT MTn 8	N/A		[X]N/A
MTn8-IE4	Called party number	MTn 8	M	3.1.6, 5.2.4	[ ]Yes [ ]No
		NOT MTn 8	N/A		[X]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	[X]Yes [ ]No
MTn9-IE12	Display		O	3.1.7	[ ]Yes [X]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	M	3.1.8, 5.11.1	[X]Yes [ ]No
		NOT MCn 21.1	N/A		[ ]N/A
MTn10-IE8	Cause		O	3.1.8	[X]Yes [ ]No
MTn10-IE20	Progress indicator		M	3.1.8, 5.1.6, 5.2.6, 5.11.1, 5.12.1	[X]Yes [ ]No
MTn10-IE12	Display	O	3.1.8	[ ]Yes [X]No	MTn10-IE14
	High layer compatibility	MCn 22.1	M	3.1.8, 5.12.1	[X]Yes [ ]No
		NOT MCn 22.1	N/A		[ ]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	[X]Yes [ ]No
MTn11-IE12	Display		O	3.1.9	[ ]Yes [X]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	[X]Yes [ ]No
MTn12-IE12	Display		O	3.1.10	[ ]Yes [X]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	M	3.4.1, 5.5	[X]Yes [ ]No
		NOT MTn 13	N/A		[ ]N/A
MTn13-IE12	Display	MTn 13	O	3.4.1	[ ]Yes [X]No
		NOT MTn 13	N/A		[ ]N/A
MTn13-IE22	Restart indicator	MTn 13	M	3.4.1, 5.5	[X]Yes [ ]No
		NOT MTn 13	N/A		[ ]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	M	3.4.2, 5.5	[X]Yes [ ]No
		NOT MTn 14	N/A		[ ]N/A
MTn14-IE12	Display	MTn 14	O	3.4.2	[ ]Yes [X]No
		NOT MTn 14	N/A		[ ]N/A
MTn14-IE22	Restart indicator	MTn 14	M	3.4.2, 5.5	[X]Yes [ ]No
		NOT MTn 14	N/A		[ ]N/A
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	M	3.1.12, 5.6.4	[ ]Yes [ ]No
		NOT MTn 16	N/A		[X]N/A
MTn16-IE12	Display	MTn 16	O	3.1.12	[ ]Yes [ ]No
		NOT MTn 16	N/A		[X]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	M	3.1.13, 5.6.5	[ ]Yes [ ]No
		NOT MTn 17	N/A		[X]N/A
MTn17-IE12	Display	MTn 17	O	3.1.13	[ ]Yes [ ]No
		NOT MTn 17	N/A		[X]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	M	3.5.1, annex H	[X]Yes [ ]No
		NOT MTn 18	N/A		[ ]N/A
MTn18-IEx	"Segment"	MTn 18	M	3.5.1, annex H	[X]Yes [ ]No
		NOT MTn 18	N/A		[ ]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	M	3.1.14, 5.2.1	[X]Yes [ ]No
		NOT SCn 112.1	N/A		[ ]N/A
MTn19-IE1	Bearer capability		M	3.1.14, 5.2.1	[X]Yes [ ]No
MTn19-IE9	Channel identification		M	3.1.14, 5.2.3	[X]Yes [ ]No
MTn19-IE20	Progress indicator		M	3.1.14, 5.2.6	[X]Yes [ ]No
MTn19-IE18	Network specific facilities		O	3.1.14, annex E	[ ]Yes [X]No
MTn19-IE12	Display		O	3.1.14, 5.2.1	[ ]Yes [X]No
MTn19-IE15	Keypad facility		O	[ ]Yes [X]No MTn19-IE6 Calling party number	comment 1
	O		3.1.14	[ ]Yes [X]No	
MTn19-IE7	Calling party subaddress		O	3.1.14	comment 2 [ ]Yes [X]No
MTn19-IE4	Called party number		M	3.1.14, 5.2.1, 5.2.2, 5.2.3, 5.2.4	comment 2 [X]Yes [ ]No
MTn19-IE5	Called party subaddress		M	3.1.14	[ ]Yes [X]No
MTn19-IE27	Transit network selection		X	[ ]Yes [X]No MTn19-IE16	comment 3
	Low layer compatibility		M	3.1.14, 5.2.1, annex I, annex J	[X]Yes [ ]No
MTn19-IE14	High layer compatibility		M	3.1.14, 5.2.1, 5.12.1	[X]Yes [ ]No

Comments:
1. Not supported for basic call. In combination with the Calling Name Identification Presentation (CNIP) supplementary service: Yes 2. Not supported for basic call. In combination with the Calling Line Identification Presentation (CLIP) supplementary service : Yes.
3. Not supported for basic call. In combination with the Subadressing (SUB) supplementary service: Yes

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	[X]Yes [ ]No
MTn20-IE20	Progress indicator		M	3.1.15, 5.1.6, 5.11.1, 5.12.1, annex K	[X]Yes [ ]No
MTn20-IE12	Display		O	3.1.15	[ ]Yes [X]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	[X]Yes [ ]No
MTn21-IE3	Call state		M	3.1.16, 3.4.3, 5.8	[X]Yes [ ]No
MTn21-IE12	Display		O	3.1.16	[ ]Yes [X]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	[ ]Yes [X]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	O	3.1.19	[ ]Yes [ ]No
		NOT MTn 24	N/A		[X]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	M	3.1.20, 5.6.3	[ ]Yes [ ]No
		NOT MTn 25	N/A		[X]N/A
MTn25-IE12	Display	MTn 25	O	3.1.20	[ ]Yes [ ]No
		NOT MTn 25	N/A		[X]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 as modified by ETS 300 403-1 [1] and with the relevant behaviour specified in clause 5 of ITU-T Recommendation Q.931 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	M	Table 9.1	[X]Yes [ ]No	> 180 s	180 s
		TIn 6	N/A		[ ]N/A		
TMn 2	T302		M	Table 9.1	[X]Yes [ ]No	10 - 15 s	15 s
TMn 3	T303		M	Table 9.1	[X]Yes [ ]No	4s	4s
TMn 4	T304	MCn 2.2	M	Table 9.1	[ ]Yes [ ]No	20 s	
		NOT MCn 2.2	N/A		[X]N/A		
TMn 5	T305		M	Table 9.1	[X]Yes [ ]No	30 s	30 s
TMn 6	T306	MCn 1.5	M	Table 9.1	[X]Yes [ ]No	30 s	30 s
		NOT MCn 1.5	N/A		[ ]N/A		
TMn 7	T307		M	Table 9.1	[X]Yes [ ]No	180 s	180 s
TMn 8	T308		M	Table 9.1	[X]Yes [ ]No	4s	4s
TMn 9	T309		M	Table 9.1	[X]Yes [ ]No	6 - 12 s (note) implemented:	90 s
TMn 10	T310		M	Table 9.1	[X]Yes [ ]No	30 - 40 s	30 s
TMn 11	T312		M	Table 9.1	[X]Yes [ ]No	T303 + 2 s	6s
TMn 13	T314	MCn 13	M	Table 9.1	[X]Yes [ ]No	4s	4s
		NOT MCn 13	N/A		[ ]N/A		
TMn 14	T316	MCn 5.2	M	Table 9.1	[X]Yes [ ]No	120 s	120 s
		NOT MCn 5.2	N/A		[ ]N/A		
TMn 15	T317	MCn 5.1	M	Table 9.1	[X]Yes [ ]No	< T316	90 s
		NOT MCn 5.1	N/A		[ ]N/A		
TMn 18	T321		I		[ ]Yes [X]No	N/A	N/A
TMn 19	T322		M	Table 9.1	[X]Yes [ ]No	4s	4s
TMn 20	T320		I	[ ]Yes [X]No	N/A	N/A	
NOTE:	The value of T309 is calculated according to the formula: T309 = (N200+1)*T200+2 s.						
Comments:							

A.8.7 Compatibility information elements structure

Table A.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		[X]Yes [ ]No
	1. CCITT standardized coding	M	0	[X]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		[X]Yes [ ]No
	1. Speech	O	0	[X]Yes [ ]No
	2. Unrestricted digital	O	8	[X]Yes [ ]No
	3. Restricted digital	N/A	9	
	4. 3,1 kHz audio	O	16	[X]Yes [ ]No
	5. Unrestricted digital information with tones/announcements	O	17	[X]Yes [ ]No
	6. Video	N/A	24	
ISn 1.3	Octet 4 bits 6 and 7, transfer mode	M		[X]Yes [ ]No
	1. Circuit	O	0	[X]Yes [ ]No
	2. Packet	N/A	2	
ISn 1.4	Octet 4 bits 1 to 5, information transfer rate	M		[X]Yes [ ]No
	1. 64 kbit/s	O	16	[X]Yes [ ]No
	2. 2 x 64 kbit/s	N/A	17	
	3. 384 kbit/s	N/A	19	
	4. 1536 kbit/s	N/A	21	
	5. 1920 kbit/s	N/A	23	
	6. Multirate	O	24	[ ]Yes [X]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		[X]Yes [ ]No
	1. V.110/X.30	O	1	[X]Yes [ ]No
	2. G.711 µ-law	N/A	2	
	3. G.711 A-law	O	3	[X]Yes [ ]No
	4. G.721 32 kbit/s ADPCM and I.460	O	4	[X]Yes [ ]No
	5. G.722 and G.725 7kHz audio	O	5	[X]Yes [ ]No
	7. Non-CCITT rate adaption	O	7	[X]Yes [ ]No
	8. V.120	N/A	8	
	9. X.31 HDLC	O	9	[X]Yes [ ]No
ISn 1.11	Octet 5a bit 7, synchronous/asynchronous	O		[X]Yes [ ]No
	1. Synchronous	O	0	[X]Yes [ ]No
	2. Asynchronous	O	1	[X]Yes [ ]No
ISn 1.12	Octet 5a bit 6, negotiation indicator	O		[X]Yes [ ]No
	1. In-band negotiation not possible	O	0	[X]Yes [ ]No
	2. In-band negotiation possible	O	1	[X]Yes [ ]No
ISn 1.13	Octet 5a bits 1 to 5, user rate	O		[X]Yes [ ]No
	1. Rate indicated by E bits (I.460)	O	0	[X]Yes [ ]No
	2. 0,6 kbit/s CCITT V.6 and X.1	O	1	[X]Yes [ ]No
	3. 1,2 kbit/s CCITT V.6	O	2	[X]Yes [ ]No
	4. 2,4 kbit/s CCITT V.6 and X.1	O	3	[X]Yes [ ]No
	5. 3,6 kbit/s CCITT V.6	O	4	[X]Yes [ ]No
	6. 4,8 kbit/s CCITT V.6 and X.1	O	5	[X]Yes [ ]No
	7. 7,2 kbit/s CCITT V.6	O	6	[X]Yes [ ]No
	8. 8 kbit/s CCITT I.460	O	7	[X]Yes [ ]No
	9. 9,6 kbit/s CCITT V.6 and X.1	O	8	[X]Yes [ ]No
	10. 14,4 kbit/s CCITT V.6	O	9	[X]Yes [ ]No
	11. 16 kbit/s CCITT I.460	O	10	[X]Yes [ ]No
	12. 19,2 kbit/s CCITT V.6	O	11	[X]Yes [ ]No
	13. 32 kbit/s CCITT I.460	O	12	[X]Yes [ ]No
	14. 48 kbit/s CCITT V.6 and X.1	O	14	[X]Yes [ ]No
	15. 56 kbit/s CCITT V.6	O	15	[X]Yes [ ]No
	16. 64 kbit/s CCITT X.1	O	16	[X]Yes [ ]No
	17. 0,1345 kbit/s CCITT X.1	O	21	[X]Yes [ ]No
	18. 0,100 kbit/s CCITT X.1	O	22	[X]Yes [ ]No
	19. 0,075/1,2 kbit/s CCITT V.6 and X.1	O	23	[X]Yes [ ]No

(continued)

Table A.111 (concluded): Bearer Capability structure

Item	Information element field	Status	Values	Support
	20. 1,2/0,075 kbit/s CCITT V.6 and X.1	O	24	[X]Yes [ ]No
	21. 0,050 kbit/s CCITT V.6 and X.1	O	25	[X]Yes [ ]No
	22. 0,075 kbit/s CCITT V.6 and X.1	O	26	[X]Yes [ ]No
	23. 0,110 kbit/s CCITT V.6 and X.1	O	27	[X]Yes [ ]No
	24. 0,150 kbit/s CCITT V.6 and X.1	O	28	[X]Yes [ ]No
	25. 0,200 kbit/s CCITT V.6 and X.1	O	29	[X]Yes [ ]No
	26. 0,300 kbit/s CCITT V.6 and X.1	O	30	[X]Yes [ ]No
	27. 12 kbit/s CCITT V.6	O	31	[X]Yes [ ]No
	Octet 5b, for V.110/X.30 rate adaption			
ISn 1.14	Octet 5b bits 6 and 7, intermediate rate	O		[X]Yes [ ]No
	1. Not used	O	0	[X]Yes [ ]No
	2. 8 kbit/s	O	1	[X]Yes [ ]No
	3. 16 kbit/s	O	2	[X]Yes [ ]No
	4. 32 kbit/s	O	3	[X]Yes [ ]No
ISn 1.15	Octet 5b bit 5, network independent clock (NIC) on transmission	O		[X]Yes [ ]No
	1. Not required to send data with NIC	O	0	[X]Yes [ ]No
	2. Required to send data with NIC	O	1	[X]Yes [ ]No
ISn 1.16	Octet 5b bit 4, NIC on reception	O		[X]Yes [ ]No
	1. Cannot accept data with NIC	O	0	[X]Yes [ ]No
	2. Can accept data with NIC	O	1	[X]Yes [ ]No
ISn 1.17	Octet 5b bit 3, flow control on transmission	O		[X]Yes [ ]No
	1. Not required to send data with flow control	O	0	[X]Yes [ ]No
	2. Required to send data with flow control	O	1	[X]Yes [ ]No
ISn 1.18	Octet 5b bit 2, flow control on reception	O		[X]Yes [ ]No
	1. Cannot accept data with flow control mechanism	O	0	[X]Yes [ ]No
	2. Can accept data with flow control mechanism	O	1	[X]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		[X]Yes [ ]No
	1. Not used	O	0	[X]Yes [ ]No
	2. 1 bit	O	1	[X]Yes [ ]No
	3. 1,5 bits	O	2	[X]Yes [ ]No
	4. 2 bits	O	3	[X]Yes [ ]No
ISn 1.26	Octet 5c bits 4 and 5, number of data bits excluding parity	O		[X]Yes [ ]No
	1. Not used	O	0	[X]Yes [ ]No
	2. 5 bits	O	1	[X]Yes [ ]No
	3. 7 bits	O	2	[X]Yes [ ]No
	4. 8 bits	O	3	[X]Yes [ ]No
ISn 1.27	Octet 5c bits 1 to 3, parity information	O		[X]Yes [ ]No
	1. Odd	O	0	[X]Yes [ ]No
	2. Even	O	2	[X]Yes [ ]No
	3. None	O	3	[X]Yes [ ]No
	4. Forced to 0	O	4	[X]Yes [ ]No
	5. Forced to 1	O	5	[X]Yes [ ]No
ISn 1.28	Octet 5d bit 7, duplex mode	O		[X]Yes [ ]No
	1. Half duplex	O	0	[X]Yes [ ]No
	2. Full duplex	O	1	[X]Yes [ ]No
ISn 1.29	Octet 5d bits 1 to 6, modem type	O		[X]Yes [ ]No
	1. V.21	O	17	[X]Yes [ ]No
	2. V.22	O	18	[X]Yes [ ]No
	3. V.22 bis	O	19	[X]Yes [ ]No
	4. V.23	O	20	[X]Yes [ ]No
	5. V.26	O	21	[X]Yes [ ]No
	6. V.26 bis	O	22	[X]Yes [ ]No
	7. V.26 ter	O	23	[X]Yes [ ]No
	8. V.27	O	24	[X]Yes [ ]No
	9. V.27 bis	O	25	[X]Yes [ ]No
	10. V.27 ter	O	26	[X]Yes [ ]No
	11. V.29	O	27	[X]Yes [ ]No
	12. V.32	O	28	[X]Yes [ ]No
ISn 1.30	Octet 6 bits 1 to 5, user information layer 2 protocol	O		[X]Yes [ ]No
	1. Q.921	O	2	[X]Yes [ ]No
	2. X.25 link level	O	6	[X]Yes [ ]No
ISn 1.31	Octet 7 bits 1 to 5, user information layer 3 protocol	O		[X]Yes [ ]No
	1. Q.931	O	2	[X]Yes [ ]No
	2. X.25 packet layer	O	6	[X]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	[X]Yes [ ]No CGPrn 1.2	NPI (octet
3)	M		[X]Yes [ ]No CGPrn 1.3		Presentation
indicator (octet 3a)			M	[X]Yes [ ]No CGPrn 1.4	Screening
indicator (octet 3a)			M	[X]Yes [ ]No CGPrn 1.5	Number
digits (octet 4 onwards)			M	Up to 20 digits; max. value supported:	[X]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)	MTn 19-IE6	M		[X]Yes [ ]No
		NOT MTn 19-IE6	N/A		[ ]N/A
	1. Unknown		O	0	[ ]Yes [X]No
	2. International number		O	1	[X]Yes [ ]No
	3. National number		O	2	[X]Yes [ ]No
	4. Network specific number		O	3	[ ]Yes [X]No
	5. Subscriber number		O	4	[ ]Yes [X]No
	6. Abbreviated number		X	6	[ ]Yes [X]No
CGPtn 1.2	NPI (octet 3)	MTn 19-IE6	M		[X]Yes [ ]No
		NOT MTn 19-IE6	N/A		[ ]N/A
	1. Unknown		O	0	[X]Yes [ ]No
	2. ISDN/telephony numbering plan		O	1	[X]Yes [ ]No
	3. Data numbering plan		O	3	[ ]Yes [X]No
	4. Telex numbering plan		O	4	[ ]Yes [X]No
	5. National standard numbering plan		O	8	[ ]Yes [X]No
	6. Private numbering plan		O	9	[ ]Yes [X]No
CGPtn 1.3	Presentation indicator (octet 3a)	MTn 19-IE6	O		[X]Yes [ ]No
		NOT MTn 19-IE6	N/A		[ ]N/A
	1. Presentation allowed		O	0	[X]Yes [ ]No
	2. Presentation restricted		O	1	[X]Yes [ ]No
	3. Number not available due to interworking		O	2	[X]Yes [ ]No
CGPtn 1.4	Screening indicator (octet 3a)	MTn 19-IE6	O		[X]Yes [ ]No
		NOT MTn 19-IE6	N/A		[ ]N/A
	1. User-provided, not screened		O	0	[X]Yes [ ]No
	2. User-provided, verified and passed		O	1	[X]Yes [ ]No
	3. User-provided, verified and failed		X	2	[ ]Yes [X]No
	4. Network provided		O	3	[X]Yes [ ]No
CGPtn 1.5	Number digits (octet 4 onwards)	MTn 19-IE6	O	Up to 20 digits;	[X]Yes [ ]No
		NOT MTn 19-IE6	N/A	max. value supported:	[ ]N/A
Comments: This table is N/A for basic call.					

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	[X]Yes [ ]No CDP1rn 1.2	
	NPI (octet 3)		M	[X]Yes [ ]No CDP1rn 1.3	
	Number digits (octet 4 onwards)		M	Up to 20 digits; max. value supported:	[X]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		[X]Yes [ ]No
	1. Unknown		O	0	[X]Yes [ ]No
	2. International number		O	1	[ ]Yes [X]No
	3. National number		O	2	[X]Yes [ ]No
	4. Network specific number		O	3	[ ]Yes [X]No
	5. Subscriber number		O	4	[ ]Yes [X]No
	6. Abbreviated number		O	6	[ ]Yes [X]No
CDP1tn 1.2	NPI (octet 3)		M		[X]Yes [ ]No
	1. Unknown		O	0	[X]Yes [ ]No
	2. ISDN/telephony numbering plan		O	1	[X]Yes [ ]No
	3. Data numbering plan		O	3	[ ]Yes [X]No
	4. Telex numbering plan		O	4	[ ]Yes [X]No
	5. National standard numbering plan		O	8	[ ]Yes [X]No
	6. Private numbering plan		O	9	[ ]Yes [X]No
CDP1tn 1.3	Number digits (octet 4 onwards)		O	Up to 20 digits; max. value supported:	[X]Yes [ ]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	[X]Yes [ ]No CDP2rn 1.2	
	NPI (octet 3)		M	[X]Yes [ ]No CDP2rn 1.3	
	Number digits (octet 4 onwards)		M	Up to 20 digits; max. value supported:	[X]Yes [ ]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)	MTn 8-IE4	M		[ ]Yes [ ]No
		NOT MTn 8-IE4	N/A		[X]N/A
	1. Unknown		O	0	[ ]Yes [ ]No
	2. International number		O	1	[ ]Yes [ ]No
	3. National number		O	2	[ ]Yes [ ]No
	4. Network specific number		O	3	[ ]Yes [ ]No
	5. Subscriber number		O	4	[ ]Yes [ ]No
	6. Abbreviated number		O	6	[ ]Yes [ ]No
CDP2tn 1.2	NPI (octet 3)	MTn 8-IE4	M		[ ]Yes [ ]No
		NOT MTn 8-IE4	N/A		[X]N/A
	1. Unknown		O	0	[ ]Yes [ ]No
	2. ISDN/telephony numbering plan		O	1	[ ]Yes [ ]No
	3. Data numbering plan		O	3	[ ]Yes [ ]No
	4. Telex numbering plan		O	4	[ ]Yes [ ]No
	5. National standard numbering plan		O	8	[ ]Yes [ ]No
	6. Private numbering plan		O	9	[ ]Yes [ ]No
CDP2tn 1.3	Number digits (octet 4 onwards)	MTn 8-IE4	O	Up to 20 digits;	[ ]Yes [ ]No
		NOT MTn 8-IE4	N/A	max. value supported:	[X]N/A
Comments:					

PICS proforma for ETS 300 403-1 for point-to-multipoint BA (Alcatel - S12)

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 sections 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.

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

Status column:

The following notations, defined in ISO/IEC 9646-7 [4], are used for the status column:

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].

I	Irrelevant or out-of-scope - this capability is outside the scope of the ETS to which this PICS proforma applies and is not subject to conformance testing in this context.
M	Mandatory - the capability is required to be supported.
N/A	Not Applicable - in the given context, it is impossible to use the capability. No answer in the support column is required.
O	Optional - the capability may be supported or not.
O.i	qualified optional - for mutually exclusive or selectable options from a set. "i" is an integer that identifies an unique group of related optional items and the logic of their selection, defined below the table.
X	eXcluded or prohibited - there is a requirement not to use this capability in a given context.

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:

[ ] Yes [ ] No	Tick "Yes" if item is supported, tick "No" if item is not supported.
[ ] N/A	Tick "N/A" if the item is "not applicable".

Prerequisite line:

A prerequisite line takes the form: Prerequisite: <predicate>.
A prerequisite line after a subclause heading or table title indicates that the whole subclause or the whole table is not required to be completed if the predicate is FALSE.

A.1.3 Instructions for completing the PICS proforma

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

More detailed instructions may be found at the beginning of each section 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

16/12/2002.....

A.2.2 Implementation Under Test (IUT) identification

IUT name:

A1000S12.....
.....

IUT version:

PACK 8.....

A.2.3 System Under Test (SUT) identification

SUT name:

A1000S12.....
.....

Hardware configuration:

BA
.....
.....

Operating system:

S12 .....
.....

A.2.4 Product supplier

Name:

ALCATEL BELL n.v. .....

E-mail address:

http://ALCATEL.be .....

Address:

Francis Wellesplein 1
B-2018 Antwerpen.....
België.....
.....

Telephone number:

+32 3 2404011 .....

Facsimile number:

+32 3 2409999 .....

Additional information:
.....
.....
.....

A.2.5 Client

Name:

PROXIMUS .....

E-mail address:
.....
Address:
.....
.....
.....
Telephone number:
.....
Facsimile number:
.....
Additional information:
.....
.....
.....

A.2.6 PICS contact person

Name:
KAZIMIERZ BOHDANOWICZ.....
E-mail address:
.....
Address:
Francis Wellesplein 1
B-2018 Antwerpen.....
België.....
.....
.....
Telephone number:
32/3/2409749 .....
Facsimile number:
+32 3 2409999 .....
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 (subclauses A.7.5 and A.8.5), the PICS proforma asks questions about the information elements (parameters) supported in messages (PDUs) received by the IUT. This subclause explains, in the context of 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 ?

[X] **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
R1	not used				
	Major role				
R 2.1	the user role		O.1		[ ]Yes [X]No
R 2.2	the network role		O.1		[X]Yes [ ]No
	Type of interface				
R 3.1	requirements at the coincident S and T reference point		O.2		[X]Yes [ ]No
R 3.2	requirements for interworking with private ISDNs at the T reference point		O.2		[ ]Yes [X]No
R4	not used				
R5	not used				
R 6.1	basic access		O.3		[X]Yes [ ]No
R 6.2	primary rate access		O.3		[ ]Yes [X]No
R 7.1	point-to-point configuration	R 6.1 R 6.2	O.4 M		[ ]Yes [X]No
R 7.2	multi-point configuration	R 6.1 R 6.2	O.4 N/A		[X]Yes [ ]No [ ]N/A

O.1 Support of one, and only one, of these options is required.
O.2 Support of one, and only one, of these options is required. Support of
O.3 one, and only one, of these options is required. Support of one, and
O.4 only one, of these options is required.

Comments:

A.8 Network

The tables provided in this subclause need only to be completed for network implementations.
Prerequisite: R 2.2

A.8.1 Type of implementation

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, [X] 5.3.4.1, 5.4	Yes [ ]No
TIn 4	support one or more "existing services" (note)		I	5.13	[X]Yes [ ]No
TIn 5	support services other than "existing services" (note)		I	5.13	[X]Yes [ ]No
TIn 6	provide an internal alerting supervision timing function		I	9.1, table 9.1	[ ]Yes [X]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 subclauses 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	[X]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	[X]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	[X]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)	[X]Yes [ ]No
MCn 1.4	transit network selection		O	5.1.10, annex C	[ ]Yes [X]No
MCn 1.5	provision of in-band tones/announcements, during call establishment at the originating interface	NOT TIn 3	M N/A	5.1.2, 5.1.3, 5.1.7, 5.4	[X]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)	[X]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	[X]Yes [ ]No
MCn 2.1	called party addressing information sent only in the SETUP message (en-bloc receiving from the user's point of view)		O.20	5.2.1, 5.2.5.1	[X]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 [X]No

(continued)

Table A.62 (concluded): Major capabilities of the network role

Item	Major capability **Does the implementation support...**	Conditions for status	Status	Reference	Support
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)	[X]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 [X]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	[X]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)	[X]Yes [ ]No
MCn 3	accept call clearing initiated by the user	M	5.3.3	[X]Yes [ ]No MCn 4.1	call clearing initiated by the network when
		TIn 3	M	5.3.4.1	[X]Yes [ ]No
	tones/announcements provided	NOT TIn 3	N/A		[ ] N/A
MCn 4.2	call clearing initiated by the network when tones/announcements not provided		M	5.3.4.2	[X]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 [X]No
MCn 5.2	initiation of restart procedure	R 7.1 NOT R 7.1	M O	5.5.1	[ ]Yes [X]No
MCn 6	processing of a call rearrangement request	R 6.1 R 6.2	O N/A	5.6	[X]Yes [ ]No [ ] N/A
MCn 7.1	response to status enquiry request		M	5.8.10	[X]Yes [ ]No
MCn 7.2	initiation of status enquiry procedure		M	5.8.10	[X]Yes [ ]No
MCn 8	symmetric call operation		X	2.1, annex D	[ ]Yes [X]No
MCn 9	processing of network specific facility request		O	annex E	[ ]Yes [X]No
MCn 11	procedures for the control of the user signalling bearer service		I	1.1, 2.2, 3.2, 7	[ ]Yes [X]No
MCn 12	procedures for establishment of bearer connection prior to call acceptance		O	annex K	[ ]Yes [X]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 [X]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 [X]N/A
MCn 13	message segmentation procedures		O	annex H	[X]Yes [ ]No
MCn 14	D-channel backup procedure		X	annex F	[ ]Yes [X]No
MCn 15	procedures for bearer service change		X	annex L	[ ]Yes [X]No
MCn 16	procedures for the control of packet communications		I	1.1, 3.3, 6	[X]Yes [ ]No
MCn 17	procedures for the control of circuit-mode multirate connections		O	8	[ ]Yes [X]No
MCn 18	resolution of call collisions	M	5.7	[X]Yes [ ]No MCn 19	handling of error conditions
M		5.8	[X]Yes [ ]No MCn 20.1		initiation of a user notification procedure
		MCn 6	M	5.9	[X]Yes [ ]No
		NOT MCn 6	N/A		[ ]N/A
MCn 20.2	forwarding of user notification		M	5.9	[X]Yes [ ]No
MCn 21.1	forwarding of BC selection request across the network (procedures at the originating side)		O	5.10, 5.11.1	[X]Yes [ ]No
MCn 21.2	procedures for BC selection at the destination side		O	5.10, 5.11.2, 5.11.3	[X]Yes [ ]No
MCn 22.1	forwarding of HLC selection request across the network (procedures at the originating side)		O	5.10, 5.12.1	[X]Yes [ ]No
MCn 22.2	procedures for HLC selection at the destination side		O	5.10, 5.12.2, 5.12.3	[X]Yes [ ]No
MCn 23.1	status request procedures for "existing services"	TIn 4 NOT TIn 4	M N/A	5.13	[X]Yes [ ]No [ ]N/A
MCn 23.2	status request procedures for services other than "existing services"	TIn 5 NOT TIn 5	M N/A	5.13	[X]Yes [ ]No [ ]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	[X]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 [X]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 [X]N/A
	Call establishment at the originating interface				
SCn 101	recognition of the Sending complete information element		M	5.1.1, 5.1.3	[X]Yes [ ]No
SCn 102	recognition of "#" as a sending complete indication		O	5.1.1, 5.1.3	[X]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 [X]No
SCn 111	transmission of a sending complete indication	O	5.2.1, 5.2.4	[X]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	[X]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 [X]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 [X]No comment 1
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 [X]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 [X]N/A
SCn 4.2	acceptance of up to 8 SETUP ACKNOWLEDGE messages from the called user (broadcast data link MCn 2.2 case)	MCn 2.5 AND NOT MCn 2.5 OR NOT MCn 2.2	O.22 N/A	5.2.4	[ ]Yes [ ]No [X]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 [X]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	[X]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 [X]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	120.1 NOT SCn 120.1	O N/A	5.3.4bis	[ ]Yes [ ]No [X]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 [X]No [ ]N/A

(continued)

Table A.63 (continued): Subsidiary capabilities of the network role

Item	Subsidiary capability	Conditions for status	Status	Reference	Support
	Does the implementation support...				
	Restart				
SCn 125.1	initiation of restart procedure on "indicated channel"	MCn 5.2	M	5.5.1	[ ]Yes [ ]No
		NOT MCn 5.2	N/A		[X]N/A
SCn 125.2	initiation of restart procedure on "single interface" (or "all interfaces")	MCn 5.2	M	5.5.1	[ ]Yes [ ]No
		NOT MCn 5.2	N/A		[X]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	[X]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 [X]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 [X]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)	[X]Yes [ ]No
SCn 19	on occurrence of a message type or message sequence error, transmission of a STATUS message		O.25	5.8.4	[X]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 [X]No
SCn 23	processing of information elements regardless of their order in the message		O.26	5.8.5.1	[ ]Yes [X]No
SCn 24	ignoring out of sequence information elements		O.26	5.8.5.1	[X]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	[X]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 [X]No
SCn 37	on occurrence of non-mandatory information element content error, transmission of a STATUS message		O	5.8.7.2	[X]Yes [ ]No
SCn 38	truncation and processing of non-mandatory access information elements that are too long		O	5.8.7.2	[ ]Yes [X]No
	Data link failure				
SCn 140	use of Cause no. 41 "temporary failure"	O	5.8.9 a)	[X]Yes [ ]No SCn 141.1 re-	
establishment of	the data link connection if DL-RELEASE-INDICATION received after sending SETUP	MCn 2.4	O.27	5.2.1, 5.8.9 a)	[ ]Yes [ ]No
		NOT MCn 2.4	N/A		[X]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)	[X]Yes [ ]No
SCn 45.1	transmission of a STATUS message		O.28	5.8.9 b)	[ ]Yes [X]No
SCn 45.2	initiation of the status enquiry procedure		O.28	5.8.9 b)	[X]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	[X]Yes [ ]No
	Receiving a STATUS message				
SCn 160.1	clearing the call on a call state mismatch		O.29	5.8.11	[X]Yes [ ]No
SCn 160.2	attempt to recover from a call state mismatch by implementation dependent means		O.29	5.8.11	[ ]Yes [X]No

(continued)

Table A.63 (concluded): Subsidiary capabilities of the network role

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 [X]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 [X]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 [X]N/A
SCn 171.2	a restriction that the 1536 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 [X]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 [X]N/A
SCn 172.2	selection of all the B-channels on another interface MCn controlled by the D-channel	17 NOT MCn 17	X N/A	8.1.2, 8.2.2.1	[ ]Yes [ ]No [X]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 [X]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. Support of
O.24 at least one of these options is required. Support of at least one of
O.25 these options is required. Support of at least one of these options is
O.26 required. Support of at least one of these options is required.
O.27 Support of at least one of these options is required. Support of at
O.28 least one of these options is required. Support of at least one of
O.29 these options is required.
O.30 "Inappropriate" messages are those that are neither a SETUP message nor a message specified to use the data link
NOTE: unacknowledged information transfer service in support of another implemented application.

Comments:
1. Not supported for basic call. In combination with CW supplementary service : Yes.

A.8.4 Protocol data units

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

A.8.4.1 Messages received by the network

Indicating support for an item in table A.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	Conditions for status of...	Status	Reference	Support
MRn 1	ALERTING		M	3.1.1, 5.2.5.2	[X]Yes [ ]No
MRn 2	CALL PROCEEDING		M	3.1.2, 5.2.5.2	[X]Yes [ ]No
MRn 4	CONNECT		M	3.1.3, 5.2.7	[X]Yes [ ]No
MRn 5	CONNECT ACKNOWLEDGE		M	3.1.4, 5.1.8	[X]Yes [ ]No
MRn 6	DISCONNECT		M	3.1.5, 5.3.3	[X]Yes [ ]No
MRn 8	INFORMATION		M	3.1.6, 5.1.3	[X]Yes [ ]No
MRn 9	NOTIFY		M	3.1.7, 5.6.2, 5.6.4, 5.6.7, 5.9	[X]Yes [ ]No
MRn 10	PROGRESS	M	3.1.8, 5.1.6	[X]Yes [ ]No MRn 11	RELEASE
	M	3.1.9, 5.3	[X]Yes [ ]No	MRn 12	RELEASE
COMPLETE	M	3.1.10, 5.3	[X]Yes [ ]No	MRn 13	RESTART
	MCn 5.1	M	3.4.1, 5.5.2	[ ]Yes [ ]No	
		NOT MCn 5.1	N/A		[X]N/A
MRn 14	RESTART ACKNOWLEDGE	MCn 5.2	M	3.4.2, 5.5.1	[ ]Yes [ ]No
		NOT MCn 5.2	N/A		[X]N/A
MRn 15	RESUME	MCn 6	M	3.1.11, 5.6.4	[X]Yes [ ]No
		NOT MCn 6	N/A		[ ]N/A
MRn 16	RESUME ACKNOWLEDGE		N/A		N/A
MRn 17	RESUME REJECT	N/A	N/A	MRn 18 SEGMENT	MCn
13	M	3.5.1, annex H	[X]Yes [ ]No		
		NOT MCn 13	N/A		[ ]N/A
MRn 19	SETUP		M	3.1.14, 5.1.1	[X]Yes [ ]No
MRn 20	SETUP ACKNOWLEDGE		M	3.1.15, 5.2.4	[ ]Yes [X]No
MRn 21	STATUS		M	3.1.16, 3.4.3, 5.8.11	[X]Yes [ ]No
MRn 22	STATUS ENQUIRY	M	3.1.17, 5.8.10		[X]Yes [ ]No
MRn 23	SUSPEND	MCn 6	M	3.1.18, 5.6.1	[X]Yes [ ]No
		NOT MCn 6	N/A		[ ]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	[X]Yes [ ]No MTn 2	CALL_
PROCEEDING	M	3.1.2, 5.1.5	[X]Yes [ ]No	MTn 4	CONNECT
	M	3.1.3, 5.1.8	[X]Yes [ ]No	MTn 5	CONNECT_
ACKNOWLEDGE		M	3.1.4, 5.2.8	[X]Yes [ ]No MTn 6	
	DISCONNECT	M	3.1.5, 5.3.4	[X]Yes [ ]No MTn 8	
	INFORMATION	MCn 2.2	M	3.1.6, 5.2.4	[ ]Yes [X]No
		NOT MCn 2.2	O		
MTn 9	NOTIFY		M	3.1.7, 5.9	[X]Yes [ ]No
MTn 10	PROGRESS		M	3.1.8, 5.1.6, 5.2.6, 5.4, annex K	[X]Yes [ ]No
MTn 11	RELEASE	M	3.1.9, 5.3	[X]Yes [ ]No MTn 12	RELEASE
COMPLETE	M	3.1.10, 5.3	[X]Yes [ ]No	MTn 13	RESTART
	MCn 5.2	M	3.4.1, 5.5.1	[ ]Yes [ ]No	
		NOT MCn 5.2	N/A		[X]N/A
MTn 14	RESTART ACKNOWLEDGE	MCn 5.1	M	3.4.2, 5.5.2	[ ]Yes [ ]No
		NOT MCn 5.1	N/A		[X]N/A
MTn 15	RESUME	N/A	N/A	MTn 16 RESUME	
ACKNOWLEDGE		MCn 6	M	3.1.12, 5.6.4	
	[X]Yes [ ]No				
		NOT MCn 6	N/A		[ ]N/A
MTn 17	RESUME REJECT	MCn 6	M	3.1.13, 5.6.5	[X]Yes [ ]No
		NOT MCn 6	N/A		[ ]N/A
MTn 18	SEGMENT	MCn 13	M	annex H	[X]Yes [ ]No
		NOT MCn 13	N/A		[ ]N/A
MTn 19	SETUP		M	3.1.14, 5.2.1	[X]Yes [ ]No
MTn 20	SETUP ACKNOWLEDGE		M	3.1.15, 5.1.3	[X]Yes [ ]No
MTn 21	STATUS		M	3.1.16, 3.4.3, 5.8.10, 5.8.10, 5.8.11	[X]Yes [ ]No
MTn 22	STATUS ENQUIRY		M	3.1.17, 5.8.10	[X]Yes [ ]No
MTn 23	SUSPEND	N/A	N/A	MTn 24 SUSPEND	
ACKNOWLEDGE		MCn 6	M	3.1.19, 5.6.2	
	[X]Yes [ ]No				
		NOT MCn 6	N/A		[ ]N/A
MTn 25	SUSPEND REJECT	MCn 6	M	3.1.20, 5.6.3	[X]Yes [ ]No
		NOT MCn 6	N/A		[ ]N/A
Comments:					

A.8.5 PDU parameters

The tables in this subclause ask questions related to the support of PDU parameters in messages received and transmitted by the IUT in the network role. In the DSS1 protocol, PDU parameters are known by the term "information elements".
Subclause A.8.5.1 contains tables relating to messages received by the IUT in the network role.
Subclause A.8.5.2 contains tables relating to messages transmitted by the IUT in the network role.
Tables A.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	[X]Yes [ ]No
MRn-IE30	Call reference		M	3.1, 4.3	[X]Yes [ ]No
MRn-IE31	Message type		M	3.1, 4.4	[X]Yes [ ]No
MRn-IE25	Shift		M	3.1, 4.5.2, 4.5.3, 4.5.4	[X]Yes [ ]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	[X]Yes [ ]No
MTn-IE30	Call reference		M	3.1, 4.3	[X]Yes [ ]No
MTn-IE31	Message type		M	3.1, 4.4	[X]Yes [ ]No
MTn-IE25	Shift		O	3.1, 4.5.2, 4.5.3, 4.5.4	[ ]Yes [X]No
Comments:					

Table A.68 covers those information elements defined by ITU-T Recommendation Q.931, 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	[ ]Yes [X]No
Mn-IE26	Signal		X	4.5.28	[ ]Yes [X]No
Comments:					

Table A.69 covers those information elements defined by ITU-T Recommendation Q.931, 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 subclause states that the implementation has the ability to process the information elements listed in the specified received messages. Such support does not necessarily mean that the indicated information element is included in every instance of the received message.

Table A.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	M	3.1.1, 5.11.3	[X]Yes [ ]No
		NOT MCn 21.2	N/A		[ ]N/A
MRn1-IE9	Channel identification		M	3.1.1, 5.2.3	[X]Yes [ ]No
MRn1-IE20	Progress indicator		M	3.1.1, 5.2.6, 5.11.3, 5.12.3	[X]Yes [ ]No
MRn1-IE12	Display		N/A		N/A
MRn1-IE14	High layer compatibility (T) (note)	MCn 22.2	M	3.1.1, 5.12.3	[X]Yes [ ]No
		NOT MCn 22.2	N/A		[ ]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	M	3.1.2, 5.11.3	[X]Yes [ ]No
		NOT MCn 21.2	N/A		[ ]N/A
MRn2-IE9	Channel identification		M	3.1.2, 5.2.3	[X]Yes [ ]No
MRn2-IE20	Progress indicator		M	3.1.2, 5.2.6, 5.11.3, 5.12.3	[X]Yes [ ]No
MRn2-IE12	Display		N/A		N/A
MRn2-IE14	High layer compatibility (T) (note)	MCn 22.2	M	3.1.2, 5.12.3	[X]Yes [ ]No
		NOT MCn 22.2	N/A		[ ]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	M	3.1.3, 5.11.2, 5.11.3	[X]Yes [ ]No
		NOT MCn 21.2	N/A		[ ]N/A
MRn4-IE9	Channel identification		M	3.1.3, 5.2.3	[X]Yes [ ]No
MRn4-IE20	Progress indicator		M	3.1.3, 5.2.6, 5.11.3, 5.12.3	[X]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	[X]Yes [ ]No
MRn4-IE14	High layer compatibility (T) (note 2)	MCn 22.2	M	3.1.3, 5.12.2	[X]Yes [ ]No
		NOT MCn 22.2	N/A		[ ]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	[X]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 [X]	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	[X]Yes [ ]No
MRn8-IE4	Called party number		M	3.1.6, 5.1.1, 5.1.3 [X]	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	[X]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	M	3.1.8, 5.11.3	[X]Yes [ ]No
		NOT MCn 21.2	N/A		[ ]N/A
MRn10-IE8	Cause (T)		I	3.1.8	[X]Yes [ ]No
MRn10-IE20	Progress indicator		M	3.1.8, 5.2.6, 5.11.3, 5.12.3	[X]Yes [ ]No
MRn10-IE12	Display		N/A		N/A
MRn10-IE14	High layer compatibility (T) (note)	MCn 22.2	M	3.1.8, 5.12.3	[X]Yes [ ]No
		NOT MCn 22.2	N/A		[ ]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	[X]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	[X]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	M	3.4.1, 5.5	[ ]Yes [ ]No
		NOT MRn 13	N/A		[X]N/A
MRn13-IE12	Display		N/A		N/A
MRn13-IE22	Restart indicator	MRn 13	M	3.4.1, 5.5	[ ]Yes [ ]No
		NOT MRn 13	N/A		[X]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	M	3.4.2, 5.5	[ ]Yes [ ]No
		NOT MRn 14	N/A		[X]N/A
MRn14-IE12	Display		N/A		N/A
MRn14-IE22	Restart indicator	MRn 14	M	3.4.2, 5.5	[ ]Yes [ ]No
		NOT MRn 14	N/A		[X]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	M	3.1.11, 5.6.4, 5.6.5	[X]Yes [ ]No
		NOT MRn 15	N/A		[ ]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	M	3.5.1, annex H	[X]Yes [ ]No
		NOT MRn 18	N/A		[ ]N/A
MRn18-IEx	"Segment"	MRn 18	M	3.5.1, annex H	[X]Yes [ ]No
		NOT MRn 18	N/A		[ ]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	[X]Yes [ ]No
MRn19-IE1	Bearer capability		M	3.1.14, 5.1.1, 5.11.1	[X]Yes [ ]No
MRn19-IE9	Channel identification	M	3.1.14, 5.1.2	[X]Yes [ ]No	MRn19-IE20
	Progress indicator	M	3.1.14, 5.1.6	[X]Yes [ ]No	MRn19-IE18
	Network specific facilities	MCn 9	M	3.1.14, annex E	[ ]Yes [ ]No
		NOT MCn 9	N/A		[X]N/A
MRn19-IE12	Display		N/A		N/A
MRn19-IE15	Keypad facility (T) (note 1)		O	3.1.14, 5, 5.1.3	[X]Yes [ ]No
MRn19-IE6	Calling party number		M	3.1.14	[X]Yes [ ]No
MRn19-IE7	Calling party subaddress		M	3.1.14	[X]Yes [ ]No
MRn19-IE4	Called party number		M	3.1.14, 5.1.1, 5.1.3	[X]Yes [ ]No
MRn19-IE5	Called party subaddress (T) (note 2)		M	3.1.14, 5.1.1, 5.1.3	[X]Yes [ ]No
MRn19-IE27	Transit network selection	MCn 1.4	M	3.1.14, 5.1.10, annex C	[ ]Yes [ ]No
		NOT MCn 1.4	N/A		[X]N/A
MRn19-IE16	Low layer compatibility (T) (note 3)		M	3.1.14, annex I, annex J	[X]Yes [ ]No
MRn19-IE14	High layer compatibility (T) (note 4)		M	3.1.14, 5.12.1	[X]Yes [ ]No

NOTE 1: The support of this parameter implies the use of the information supplied in connection with one or more supplementary services.

NOTE 2: The support of this parameter implies the ability to pass this parameter to a non-protocol entity (e.g. call control) so that it be transported transparently between a call originating entity and the addressed entity.

NOTE 3: The support of this parameter implies the ability to either a) pass this parameter to a non-protocol entity (e.g. call control) so that it be transported transparently between a call originating entity and the addressed entity; or b) 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, 5.11.3, 5.12.3	[ ]Yes [ ]No
MRn20-IE12	Display		N/A		N/A

Comments:
This table is N/A : Receipt of SETUP ACKNOWLEDGE by the network is not supported.

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	[X]Yes [ ]No
MRn21-IE3	Call state		M	3.1.16, 3.4.3, 5.8.3.2, 5.8.10, 5.8.11	[X]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	M	3.1.18, 5.6.1, 5.6.2, 5.6.3	[X]Yes [ ]No
		NOT MRn 23	N/A		[ ]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 subclause states that the implementation has the ability to generate, and to transmit in the specified message, the information elements listed. Such support does not necessarily mean that the indicated information element is included in every instance of the transmitted message.

Table A.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	M	3.1.1, 5.11.1	[X]Yes [ ]No
		NOT MCn 21.1	N/A		[ ]N/A
MTn1-IE9	Channel identification		X		[ ]Yes [X]No
MTn1-IE20	Progress indicator		M	3.1.1, 5.1.6, 5.11.1, 5.12.1, annex K	[X]Yes [ ]No
MTn1-IE12	Display	O	3.1.1	[ ]Yes [X]No MTn1-IE14	High layer
compatibility	MCn 22.1	M	3.1.1, 5.12.1	[X]Yes [ ]No	
		NOT MCn 22.1	N/A		[ ]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	M	3.1.2, 5.11.1	[X]Yes [ ]No
		NOT MCn 21.1	N/A		[ ]N/A
MTn2-IE9	Channel identification		M	3.1.2, 5.1.2	[X]Yes [ ]No
MTn2-IE20	Progress indicator		M	3.1.2, 5.1.6, 5.11.1, 5.12.1	[X]Yes [ ]No
MTn2-IE12	Display	O	3.1.2	[ ]Yes [X]No MTn2-IE14	High layer
compatibility	MCn 22.1	M	3.1.2, 5.12.1	[X]Yes [ ]No	
		NOT MCn 22.1	N/A		[ ]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	M	3.1.3, 5.11.1	[X]Yes [ ]No
		NOT MCn 21.1	N/A		[ ]N/A
MTn4-IE9	Channel identification		X		[ ]Yes [X]No
MTn4-IE20	Progress indicator		M	3.1.3, 5.1.6, 5.11.1, 5.12.1	[X]Yes [ ]No
MTn4-IE12	Display	O	3.1.3	[ ]Yes [X]No MTn4-IE11	Date/time
	O	3.1.3	[X]Yes [ ]No	MTn4-IE16	Low layer
compatibility	O	3.1.3, annex J	[X]Yes [ ]No	MTn4-IE14	High layer
compatibility	MCn 22.1	M	3.1.3, 5.12.1	[X]Yes [ ]No	
		NOT MCn 22.1	N/A		[ ]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 [X]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	[X]Yes [ ]No
MTn6-IE20	Progress indicator		M	3.1.5, 5.3.4.1,	[X]Yes [ ]No
MTn6-IE12	Display		O	3.1.5	[ ]Yes [X]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	O	3.1.6, 5.2.4	[ ]Yes [ ]No [X]N/A
		NOT MTn 8 OR NOT SCn 112.1	N/A		
MTn8-IE8	Cause	MTn 8	O	3.1.6	[ ]Yes [ ]No
		NOT MTn 8	N/A		[X]N/A
MTn8-IE12	Display	MTn 8	O	3.1.6	[ ]Yes [ ]No
		NOT MTn 8	N/A		[X]N/A
MTn8-IE15	Keypad facility	MTn 8	O	3.1.6	[ ]Yes [ ]No
		NOT MTn 8	N/A		[X]N/A
MTn8-IE4	Called party number	MTn 8	M	3.1.6, 5.2.4	[ ]Yes [ ]No
		NOT MTn 8	N/A		[X]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, [X] 5.9	Yes [ ]No
MTn9-IE12	Display		O	3.1.7	[ ]Yes [X]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	M	3.1.8, 5.11.1	[X]Yes [ ]No
		NOT MCn 21.1	N/A		[ ]N/A
MTn10-IE8	Cause		O	3.1.8	[X]Yes [ ]No
MTn10-IE20	Progress indicator		M	3.1.8, 5.1.6, 5.2.6, 5.11.1, 5.12.1	[X]Yes [ ]No
MTn10-IE12	Display	O	3.1.8	[ ]Yes [X]No MTn10-IE14	
	High layer compatibility	MCn 22.1	M	3.1.8, 5.12.1	[X]Yes [ ]No
		NOT MCn 22.1	N/A		[ ]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	[X]Yes [ ]No
MTn11-IE12	Display		O	3.1.9	[ ]Yes [X]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	[X]Yes [ ]No
MTn12-IE12	Display		O	3.1.10	[ ]Yes [X]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	M	3.4.1, 5.5	[ ]Yes [ ]No
		NOT MTn 13	N/A		[X]N/A
MTn13-IE12	Display	MTn 13	O	3.4.1	[ ]Yes [ ]No
		NOT MTn 13	N/A		[X]N/A
MTn13-IE22	Restart indicator	MTn 13	M	3.4.1, 5.5	[ ]Yes [ ]No
		NOT MTn 13	N/A		[X]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	M	3.4.2, 5.5	[ ]Yes [ ]No
		NOT MTn 14	N/A		[X]N/A
MTn14-IE12	Display	MTn 14	O	3.4.2	[ ]Yes [ ]No
		NOT MTn 14	N/A		[X]N/A
MTn14-IE22	Restart indicator	MTn 14	M	3.4.2, 5.5	[ ]Yes [ ]No
		NOT MTn 14	N/A		[X]N/A
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	M	3.1.12, 5.6.4	[X]Yes [ ]No
		NOT MTn 16	N/A		[ ]N/A
MTn16-IE12	Display	MTn 16	O	3.1.12	[ ]Yes [X]No
		NOT MTn 16	N/A		[ ]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	M	3.1.13, 5.6.5	[X]Yes [ ]No
		NOT MTn 17	N/A		[ ]N/A
MTn17-IE12	Display	MTn 17	O	3.1.13	[ ]Yes [X]No
		NOT MTn 17	N/A		[ ]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	M	3.5.1, annex H	[X]Yes [ ]No
		NOT MTn 18	N/A		[ ]N/A
MTn18-IEx	"Segment"	MTn 18	M	3.5.1, annex H	[X]Yes [ ]No
		NOT MTn 18	N/A		[ ]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	[X]Yes [ ]No [ ]N/A
MTn19-IE1	Bearer capability		M	3.1.14, 5.2.1	[X]Yes [ ]No
MTn19-IE9	Channel identification		M	3.1.14, 5.2.3	[X]Yes [ ]No
MTn19-IE20	Progress indicator		M	3.1.14, 5.2.6	[X]Yes [ ]No
MTn19-IE18	Network specific facilities		O	3.1.14, annex E	[ ]Yes [X]No
MTn19-IE12	Display		O	3.1.14, 5.2.1	[ ]Yes [X]No
MTn19-IE15	Keypad facility		O	[ ]Yes [X]No MTn19-IE6	Comment 1 Calling
party number	O		3.1.14	[ ]Yes [X]No	
MTn19-IE7	Calling party subaddress		O	3.1.14	comment 2 [ ]Yes [X]No
MTn19-IE4	Called party number		M	3.1.14, 5.2.1, 5.2.2, 5.2.3, 5.2.4	comment 2 [X]Yes [ ]No
MTn19-IE5	Called party subaddress		M	3.1.14	[ ]Yes [X]No
MTn19-IE27	Transit network selection		X	[ ]Yes [X]No MTn19-IE16	comment 3
	Low layer compatibility		M	3.1.14, 5.2.1, annex I, annex J	[X]Yes [ ]No
MTn19-IE14	High layer compatibility		M	3.1.14, 5.2.1, 5.12.1	[X]Yes [ ]No

Comments:
1. Not supported for basic call. In combination with the Calling Name Identification Presentation (CNIP) supplementary service : Yes.
2. Not supported for basic call. In combination with the Calling Line Identification Presentation (CLIP) supplementary service: Yes
3. Not supported for basic call. In combination with the Subadressing (SUB) supplementary service: Yes

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	[X]Yes [ ]No
MTn20-IE20	Progress indicator		M	3.1.15, 5.1.6, 5.11.1, 5.12.1, annex K	[X]Yes [ ]No
MTn20-IE12	Display		O	3.1.15	[ ]Yes [X]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	[X]Yes [ ]No
MTn21-IE3	Call state		M	3.1.16, 3.4.3, 5.8	[X]Yes [ ]No
MTn21-IE12	Display		O	3.1.16	[ ]Yes [X]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	[ ]Yes [X]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	O	3.1.19	[ ]Yes [X]No
		NOT MTn 24	N/A		[ ]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	M	3.1.20, 5.6.3	[X]Yes [ ]No
		NOT MTn 25	N/A		[ ]N/A
MTn25-IE12	Display	MTn 25	O	3.1.20	[ ]Yes [X]No
		NOT MTn 25	N/A		[ ]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 as modified by ETS 300 403-1 [1] and with the relevant behaviour specified in clause 5 of ITU-T Recommendation Q.931 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	M	Table 9.1	[X]Yes [ ]No	> 180 s	180 s
		TIn 6	N/A		[ ]N/A		
TMn 2	T302		M	Table 9.1	[X]Yes [ ]No	10 - 15 s	15 s
TMn 3	T303		M	Table 9.1	[X]Yes [ ]No	4s	4s
TMn 4	T304	MCn 2.2	M	Table 9.1	[ ]Yes [ ]No	20 s	
		NOT MCn 2.2	N/A		[X]N/A		
TMn 5	T305		M	Table 9.1	[X]Yes [ ]No	30 s	30 s
TMn 6	T306	MCn 1.5	M	Table 9.1	[X]Yes [ ]No	30 s	30 s
		NOT MCn 1.5	N/A		[ ]N/A		
TMn 7	T307		M	Table 9.1	[X]Yes [ ]No	180 s	180 s
TMn 8	T308		M	Table 9.1	[X]Yes [ ]No	4s	4s
TMn 9	T309		M	Table 9.1	[X]Yes [ ]No	6 - 12 s (note)	implemented: 90 s
TMn 10	T310		M	Table 9.1	[X]Yes [ ]No	30 - 40 s	30 s
TMn 11	T312		M	Table 9.1	[X]Yes [ ]No	T303 + 2 s	6s
TMn 13	T314	MCn 13	M	Table 9.1	[X]Yes [ ]No	4s	4s
		NOT MCn 13	N/A		[ ]N/A		
TMn 14	T316	MCn 5.2	M	Table 9.1	[ ]Yes [ ]No	120 s	
		NOT MCn 5.2	N/A		[X]N/A		
TMn 15	T317	MCn 5.1	M	Table 9.1	[ ]Yes [ ]No	< T316	
		NOT MCn 5.1	N/A		[X]N/A		
TMn 18	T321		I		[ ]Yes [X]No	N/A	N/A
TMn 19	T322		M	Table 9.1	[X]Yes [ ]No	4s	4s
TMn 20	T320		I	[ ]Yes [X]No	N/A	N/A	
NOTE:	The value of T309 is calculated according to the formula: T309 = (N200+1)*T200+2 s.						
Comments:							

A.8.7 Compatibility information elements structure

Table A.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		[X]Yes [ ]No
	1. CCITT standardized coding	M	0	[X]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		[X]Yes [ ]No
	1. Speech	O	0	[X]Yes [ ]No
	2. Unrestricted digital	O	8	[X]Yes [ ]No
	3. Restricted digital	N/A	9	
	4. 3,1 kHz audio	O	16	[X]Yes [ ]No
	5. Unrestricted digital information with tones/announcements	O	17	[X]Yes [ ]No
	6. Video	N/A	24	
ISn 1.3	Octet 4 bits 6 and 7, transfer mode	M		[X]Yes [ ]No
	1. Circuit	O	0	[X]Yes [ ]No
	2. Packet	N/A	2	
ISn 1.4	Octet 4 bits 1 to 5, information transfer rate	M		[X]Yes [ ]No
	1. 64 kbit/s	O	16	[X]Yes [ ]No
	2. 2 x 64 kbit/s	N/A	17	
	3. 384 kbit/s	N/A	19	
	4. 1536 kbit/s	N/A	21	
	5. 1920 kbit/s	N/A	23	
	6. Multirate	O	24	[ ]Yes [X]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		[X]Yes [ ]No
	1. V.110/X.30	O	1	[X]Yes [ ]No
	2. G.711 µ-law	N/A	2	
	3. G.711 A-law	O	3	[X]Yes [ ]No
	4. G.721 32 kbit/s ADPCM and I.460	O	4	[X]Yes [ ]No
	5. G.722 and G.725 7kHz audio	O	5	[X]Yes [ ]No
	7. Non-CCITT rate adaption	O	7	[X]Yes [ ]No
	8. V.120	N/A	8	
	9. X.31 HDLC	O	9	[X]Yes [ ]No
ISn 1.11	Octet 5a bit 7, synchronous/asynchronous	O		[X]Yes [ ]No
	1. Synchronous	O	0	[X]Yes [ ]No
	2. Asynchronous	O	1	[X]Yes [ ]No
ISn 1.12	Octet 5a bit 6, negotiation indicator	O		[X]Yes [ ]No
	1. In-band negotiation not possible	O	0	[X]Yes [ ]No
	2. In-band negotiation possible	O	1	[X]Yes [ ]No
ISn 1.13	Octet 5a bits 1 to 5, user rate	O		[X]Yes [ ]No
	1. Rate indicated by E bits (I.460)	O	0	[X]Yes [ ]No
	2. 0,6 kbit/s CCITT V.6 and X.1	O	1	[X]Yes [ ]No
	3. 1,2 kbit/s CCITT V.6	O	2	[X]Yes [ ]No
	4. 2,4 kbit/s CCITT V.6 and X.1	O	3	[X]Yes [ ]No
	5. 3,6 kbit/s CCITT V.6	O	4	[X]Yes [ ]No
	6. 4,8 kbit/s CCITT V.6 and X.1	O	5	[X]Yes [ ]No
	7. 7,2 kbit/s CCITT V.6	O	6	[X]Yes [ ]No
	8. 8 kbit/s CCITT I.460	O	7	[X]Yes [ ]No
	9. 9,6 kbit/s CCITT V.6 and X.1	O	8	[X]Yes [ ]No
	10. 14,4 kbit/s CCITT V.6	O	9	[X]Yes [ ]No
	11. 16 kbit/s CCITT I.460	O	10	[X]Yes [ ]No
	12. 19,2 kbit/s CCITT V.6	O	11	[X]Yes [ ]No
	13. 32 kbit/s CCITT I.460	O	12	[X]Yes [ ]No
	14. 48 kbit/s CCITT V.6 and X.1	O	14	[X]Yes [ ]No
	15. 56 kbit/s CCITT V.6	O	15	[X]Yes [ ]No
	16. 64 kbit/s CCITT X.1	O	16	[X]Yes [ ]No
	17. 0,1345 kbit/s CCITT X.1	O	21	[X]Yes [ ]No
	18. 0,100 kbit/s CCITT X.1	O	22	[X]Yes [ ]No
	19. 0,075/1,2 kbit/s CCITT V.6 and X.1	O	23	[X]Yes [ ]No

(continued)

Table A.111 (concluded): Bearer Capability structure

Item	Information element field	Status	Values	Support
	20. 1,2/0,075 kbit/s CCITT V.6 and X.1	O	24	[X]Yes [ ]No
	21. 0,050 kbit/s CCITT V.6 and X.1	O	25	[X]Yes [ ]No
	22. 0,075 kbit/s CCITT V.6 and X.1	O	26	[X]Yes [ ]No
	23. 0,110 kbit/s CCITT V.6 and X.1	O	27	[X]Yes [ ]No
	24. 0,150 kbit/s CCITT V.6 and X.1	O	28	[X]Yes [ ]No
	25. 0,200 kbit/s CCITT V.6 and X.1	O	29	[X]Yes [ ]No
	26. 0,300 kbit/s CCITT V.6 and X.1	O	30	[X]Yes [ ]No
	27. 12 kbit/s CCITT V.6	O	31	[X]Yes [ ]No
	Octet 5b, for V.110/X.30 rate adaption			
ISn 1.14	Octet 5b bits 6 and 7, intermediate rate	O		[X]Yes [ ]No
	1. Not used	O	0	[X]Yes [ ]No
	2. 8 kbit/s	O	1	[X]Yes [ ]No
	3. 16 kbit/s	O	2	[X]Yes [ ]No
	4. 32 kbit/s	O	3	[X]Yes [ ]No
ISn 1.15	Octet 5b bit 5, network independent clock (NIC) on transmission	O		[X]Yes [ ]No
	1. Not required to send data with NIC	O	0	[X]Yes [ ]No
	2. Required to send data with NIC	O	1	[X]Yes [ ]No
ISn 1.16	Octet 5b bit 4, NIC on reception	O		[X]Yes [ ]No
	1. Cannot accept data with NIC	O	0	[X]Yes [ ]No
	2. Can accept data with NIC	O	1	[X]Yes [ ]No
ISn 1.17	Octet 5b bit 3, flow control on transmission	O		[X]Yes [ ]No
	1. Not required to send data with flow control	O	0	[X]Yes [ ]No
	2. Required to send data with flow control	O	1	[X]Yes [ ]No
ISn 1.18	Octet 5b bit 2, flow control on reception	O		[X]Yes [ ]No
	1. Cannot accept data with flow control mechanism	O	0	[X]Yes [ ]No
	2. Can accept data with flow control mechanism	O	1	[X]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		[X]Yes [ ]No
	1. Not used	O	0	[X]Yes [ ]No
	2. 1 bit	O	1	[X]Yes [ ]No
	3. 1,5 bits	O	2	[X]Yes [ ]No
	4. 2 bits	O	3	[X]Yes [ ]No
ISn 1.26	Octet 5c bits 4 and 5, number of data bits excluding parity	O		[X]Yes [ ]No
	1. Not used	O	0	[X]Yes [ ]No
	2. 5 bits	O	1	[X]Yes [ ]No
	3. 7 bits	O	2	[X]Yes [ ]No
	4. 8 bits	O	3	[X]Yes [ ]No
ISn 1.27	Octet 5c bits 1 to 3, parity information	O		[X]Yes [ ]No
	1. Odd	O	0	[X]Yes [ ]No
	2. Even	O	2	[X]Yes [ ]No
	3. None	O	3	[X]Yes [ ]No
	4. Forced to 0	O	4	[X]Yes [ ]No
	5. Forced to 1	O	5	[X]Yes [ ]No
ISn 1.28	Octet 5d bit 7, duplex mode	O		[X]Yes [ ]No
	1. Half duplex	O	0	[X]Yes [ ]No
	2. Full duplex	O	1	[X]Yes [ ]No
ISn 1.29	Octet 5d bits 1 to 6, modem type	O		[X]Yes [ ]No
	1. V.21	O	17	[X]Yes [ ]No
	2. V.22	O	18	[X]Yes [ ]No
	3. V.22 bis	O	19	[X]Yes [ ]No
	4. V.23	O	20	[X]Yes [ ]No
	5. V.26	O	21	[X]Yes [ ]No
	6. V.26 bis	O	22	[X]Yes [ ]No
	7. V.26 ter	O	23	[X]Yes [ ]No
	8. V.27	O	24	[X]Yes [ ]No
	9. V.27 bis	O	25	[X]Yes [ ]No
	10. V.27 ter	O	26	[X]Yes [ ]No
	11. V.29	O	27	[X]Yes [ ]No
	12. V.32	O	28	[X]Yes [ ]No
ISn 1.30	Octet 6 bits 1 to 5, user information layer 2 protocol	O		[X]Yes [ ]No
	1. Q.921	O	2	[X]Yes [ ]No
	2. X.25 link level	O	6	[X]Yes [ ]No
ISn 1.31	Octet 7 bits 1 to 5, user information layer 3 protocol	O		[X]Yes [ ]No
	1. Q.931	O	2	[X]Yes [ ]No
	2. X.25 packet layer	O	6	[X]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	[X]Yes [ ]No CGPrn 1.2	NPI (octet 3)
	M		[X]Yes [ ]No CGPrn 1.3		Presentation indicator (octet 3a)
	M		[X]Yes [ ]No CGPrn 1.4		Screening indicator (octet 3a)
	M		[X]Yes [ ]No CGPrn 1.5		Number digits (octet 4 onwards)
	M		Up to 20 digits; max. value supported:		[X]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)	MTn 19-IE6	M		[X]Yes [ ]No
		NOT MTn 19-IE6	N/A		[ ]N/A
	1. Unknown		O	0	[ ]Yes [X]No
	2. International number		O	1	[X]Yes [ ]No
	3. National number		O	2	[X]Yes [ ]No
	4. Network specific number		O	3	[ ]Yes [X]No
	5. Subscriber number		O	4	[ ]Yes [X]No
	6. Abbreviated number		X	6	[ ]Yes [X]No
CGPtn 1.2	NPI (octet 3)	MTn 19-IE6	M		[X]Yes [ ]No
		NOT MTn 19-IE6	N/A		[ ]N/A
	1. Unknown		O	0	[X]Yes [ ]No
	2. ISDN/telephony numbering plan		O	1	[X]Yes [ ]No
	3. Data numbering plan		O	3	[ ]Yes [X]No
	4. Telex numbering plan		O	4	[ ]Yes [X]No
	5. National standard numbering plan		O	8	[ ]Yes [X]No
	6. Private numbering plan		O	9	[ ]Yes [X]No
CGPtn 1.3	Presentation indicator (octet 3a)	MTn 19-IE6	O		[X]Yes [ ]No
		NOT MTn 19-IE6	N/A		[ ]N/A
	1. Presentation allowed		O	0	[X]Yes [ ]No
	2. Presentation restricted		O	1	[X]Yes [ ]No
	3. Number not available due to interworking		O	2	[X]Yes [ ]No
CGPtn 1.4	Screening indicator (octet 3a)	MTn 19-IE6	O		[X]Yes [ ]No
		NOT MTn 19-IE6	N/A		[ ]N/A
	1. User-provided, not screened		O	0	[X]Yes [ ]No
	2. User-provided, verified and passed		O	1	[X]Yes [ ]No
	3. User-provided, verified and failed		X	2	[ ]Yes [X]No
	4. Network provided		O	3	[X]Yes [ ]No
CGPtn 1.5	Number digits (octet 4 onwards)	MTn 19-IE6	O	Up to 20 digits; max. value supported:	[X]Yes [ ]No
		NOT MTn 19-IE6	N/A		[ ]N/A

Comments:
This table is N/A for basic call.

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	[X]Yes [ ]No CDP1rn 1.2	
	NPI (octet 3)		M	[X]Yes [ ]No CDP1rn 1.3	
	Number digits (octet 4 onwards)		M	Up to 20 digits; max. value supported:	[X]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		[X]Yes [ ]No
	1. Unknown		O	0	[X]Yes [ ]No
	2. International number		O	1	[ ]Yes [X]No
	3. National number		O	2	[X]Yes [ ]No
	4. Network specific number		O	3	[ ]Yes [X]No
	5. Subscriber number		O	4	[ ]Yes [X]No
	6. Abbreviated number		O	6	[ ]Yes [X]No
CDP1tn 1.2	NPI (octet 3)		M		[X]Yes [ ]No
	1. Unknown		O	0	[X]Yes [ ]No
	2. ISDN/telephony numbering plan		O	1	[X]Yes [ ]No
	3. Data numbering plan		O	3	[ ]Yes [X]No
	4. Telex numbering plan		O	4	[ ]Yes [X]No
	5. National standard numbering plan		O	8	[ ]Yes [X]No
	6. Private numbering plan		O	9	[ ]Yes [X]No
CDP1tn 1.3	Number digits (octet 4 onwards)		O	Up to 20 digits; max. value supported:	[X]Yes [ ]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	[X]Yes [ ]No CDP2rn 1.2	
	NPI (octet 3)		M	[X]Yes [ ]No CDP2rn 1.3	
	Number digits (octet 4 onwards)		M	Up to 20 digits; max. value supported:	[X]Yes [ ]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)	MTn 8-IE4	M		[ ]Yes [ ]No
		NOT MTn 8-IE4	N/A		[X]N/A
	1. Unknown		O	0	[ ]Yes [ ]No
	2. International number		O	1	[ ]Yes [ ]No
	3. National number		O	2	[ ]Yes [ ]No
	4. Network specific number		O	3	[ ]Yes [ ]No
	5. Subscriber number		O	4	[ ]Yes [ ]No
	6. Abbreviated number		O	6	[ ]Yes [ ]No
CDP2tn 1.2	NPI (octet 3)	MTn 8-IE4	M		[ ]Yes [ ]No
		NOT MTn 8-IE4	N/A		[X]N/A
	1. Unknown		O	0	[ ]Yes [ ]No
	2. ISDN/telephony numbering plan		O	1	[ ]Yes [ ]No
	3. Data numbering plan		O	3	[ ]Yes [ ]No
	4. Telex numbering plan		O	4	[ ]Yes [ ]No
	5. National standard numbering plan		O	8	[ ]Yes [ ]No
	6. Private numbering plan		O	9	[ ]Yes [ ]No
CDP2tn 1.3	Number digits (octet 4 onwards)	MTn 8-IE4	O	Up to 20 digits;	[ ]Yes [ ]No
		NOT MTn 8-IE4	N/A	max. value supported:	[X]N/A
Comments:					

PICS proforma for ETS 300 403-1 for PRA (Alcatel - S12)

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 sections 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.

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

Status column:

The following notations, defined in ISO/IEC 9646-7 [4], are used for the status column:

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].

I	Irrelevant or out-of-scope - this capability is outside the scope of the ETS to which this PICS proforma applies and is not subject to conformance testing in this context.
M	Mandatory - the capability is required to be supported.
N/A	Not Applicable - in the given context, it is impossible to use the capability. No answer in the support column is required.
O	Optional - the capability may be supported or not.
O.i	qualified optional - for mutually exclusive or selectable options from a set. "i" is an integer that identifies an unique group of related optional items and the logic of their selection, defined below the table.
X	eXcluded or prohibited - there is a requirement not to use this capability in a given context.

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:

[ ] Yes [ ] No	Tick "Yes" if item is supported, tick "No" if item is not supported.
[ ] N/A	Tick "N/A" if the item is "not applicable".

Prerequisite line:

A prerequisite line takes the form: Prerequisite: <predicate>.
A prerequisite line after a subclause heading or table title indicates that the whole subclause or the whole table is not required to be completed if the predicate is FALSE.

A.1.3 Instructions for completing the PICS proforma

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

More detailed instructions may be found at the beginning of each section 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

16/12/2002.....

A.2.2 Implementation Under Test (IUT) identification

IUT name:
A1000S12.....
.....
IUT version:
PACK 8.....

A.2.3 System Under Test (SUT) identification

SUT name:
A1000S12.....
.....
Hardware configuration:
IPTMU .....
.....
.....
Operating system:
S12 .....
.....

A.2.4 Product supplier

Name:
ALCATEL BELL n.v. .....
E-mail address:
http://ALCATEL.be .....
Address:
Francis Wellesplein 1
B-2018 Antwerpen.....
België.....
.....
Telephone number:
+32 3 2404011 .....
Facsimile number:
+32 3 2409999 .....
Additional information:
.....
.....
.....

A.2.5 Client

Name:
PROXIMUS .....
E-mail address:
.....

Address:
.....
.....
.....
Telephone number:
.....
Facsimile number:
.....
Additional information:
.....
.....
.....

A.2.6 PICS contact person

Name:
KAZIMIERZ BOHDANOWICZ.....
E-mail address:
.....
Address:
Francis Wellesplein 1
B-2018 Antwerpen.....
België.....
.....
.....
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 (subclauses A.7.5 and A.8.5), the PICS proforma asks questions about the information elements (parameters) supported in messages (PDUs) received by the IUT. This subclause explains, in the context of 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 ?

[X] **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
R1	not used				
	Major role				
R 2.1	the user role		O.1		[ ]Yes [X]No R
2.2	the network role		O.1		[X]Yes [ ]No
	Type of interface				
R 3.1	requirements at the coincident S and T reference point		O.2		[ ]Yes [X]No
R 3.2	requirements for interworking with private ISDNs at the T reference point		O.2		[X]Yes [ ]No
R4	not used				
R5	not used				
R 6.1	basic access		O.3		[ ]Yes [X]No
R 6.2	primary rate access		O.3		[X]Yes [ ]No
R 7.1	point-to-point configuration	R 6.1 R 6.2	O.4 M		[X]Yes [ ]No
R 7.2	multi-point configuration	R 6.1 R 6.2	O.4 N/A		[ ]Yes [ ]No [X]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. Support of
O.3 one, and only one, of these options is required. Support of one, and
O.4 only one, of these options is required.

Comments:

A.8 Network

The tables provided in this subclause need only to be completed for network implementations.
Prerequisite: R 2.2

A.8.1 Type of implementation

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, [X] 5.3.4.1, 5.4	Yes [ ]No
TIn 4	support one or more "existing services" (note)		I	5.13	[X]Yes [ ]No
TIn 5	support services other than "existing services" (note)		I	5.13	[X]Yes [ ]No
TIn 6	provide an internal alerting supervision timing function		I	9.1, table 9.1	[ ]Yes [X]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 subclauses 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	[X]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	[X]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	[X]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)	[X]Yes [ ]No
MCn 1.4	transit network selection	O	5.1.10, annex G		[ ]Yes [X]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	[X]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)	[X]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	[X]Yes [ ]No
MCn 2.1	called party addressing information sent only in the SETUP message (en-bloc receiving from the user's point of view)		O.20	5.2.1, 5.2.5.1	[X]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 [X]No

(continued)

Table A.62 (concluded): Major capabilities of the network role

Item	Major capability Does the implementation support...	Conditions for status	Status	Reference	Support
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)	[X]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	[X]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 [X]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)	[X]Yes [ ]No
MCn 3	accept call clearing initiated by the user		M	5.3.3	[X]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	[X]Yes [ ]No [ ] N/A
MCn 4.2	call clearing initiated by the network when tones/announcements not provided		M	5.3.4.2	[X]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	[X]Yes [ ]No
MCn 5.2	initiation of restart procedure	R 7.1 NOT R 7.1	M O	5.5.1	[X]Yes [ ]No
MCn 6	processing of a call rearrangement request	R 6.1 R 6.2	O N/A	5.6	[ ]Yes [ ]No [X] N/A
MCn 7.1	response to status enquiry request		M	5.8.10	[X]Yes [ ]No
MCn 7.2	initiation of status enquiry procedure		M	5.8.10	[X]Yes [ ]No
MCn 8	symmetric call operation		X	2.1, annex D	[ ]Yes [X]No
MCn 9	processing of network specific facility request		O	annex E	[ ]Yes [X]No
MCn 11	procedures for the control of the user signalling bearer service		I	1.1, 2.2, 3.2, 7	[ ]Yes [X]No
MCn 12	procedures for establishment of bearer connection prior to call acceptance		O	annex K	[ ]Yes [X]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 [X]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 [X]N/A
MCn 13	message segmentation procedures		O	annex H	[X]Yes [ ]No
MCn 14	D-channel backup procedure		X	annex F	[ ]Yes [X]No
MCn 15	procedures for bearer service change		X	annex L	[ ]Yes [X]No
MCn 16	procedures for the control of packet communications		I	1.1, 3.3, 6	[X]Yes [ ]No
MCn 17	procedures for the control of circuit-mode multirate connections		O	8	[ ]Yes [X]No
MCn 18	resolution of call collisions		M	5.7	[X]Yes [ ]No
MCn 19	handling of error conditions		M	5.8	[X]Yes [ ]No
MCn 20.1	initiation of a user notification procedure	MCn 6 NOT MCn 6	M N/A	5.9	[ ]Yes [ ]No [X]N/A
MCn 20.2	forwarding of user notification		M	5.9	[X]Yes [ ]No
MCn 21.1	forwarding of BC selection request across the network (procedures at the originating side)		O	5.10, 5.11.1	[X]Yes [ ]No
MCn 21.2	procedures for BC selection at the destination side		O	5.10, 5.11.2, 5.11.3	[X]Yes [ ]No
MCn 22.1	forwarding of HLC selection request across the network (procedures at the originating side)		O	5.10, 5.12.1	[X]Yes [ ]No
MCn 22.2	procedures for HLC selection at the destination side		O	5.10, 5.12.2, 5.12.3	[X]Yes [ ]No
MCn 23.1	status request procedures for "existing services"	TIn 4 NOT TIn 4	M N/A	5.13	[X]Yes [ ]No [ ]N/A
MCn 23.2	status request procedures for services other than "existing services"	TIn 5 NOT TIn 5	M N/A	5.13	[X]Yes [ ]No [ ]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 [X]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	[X]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 [X]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	[X]Yes [ ]No
SCn 102	recognition of "#" as a sending complete indication		O	5.1.1, 5.1.3	[X]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	[X]Yes [ ]No
SCn 111	transmission of a sending complete indication		O	5.2.1, 5.2.4	[X]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	[X]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 [X]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 [X]No comment 1
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 [X]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 [X]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 [X]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 [X]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 [X]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 [X]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 [X]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 [X]N/A

(continued)

Table A.63 (continued): Subsidiary capabilities of the network role

Item	Subsidiary capability Does the implementation support...	Conditions for status	Status	Reference	Support
	Restart				
SCn 125.1	initiation of restart procedure on "indicated channel"	MCn NOT MCn 5.2	M N/A	5.5.1	[X]Yes [ ]No [ ]N/A
SCn 125.2	initiation of restart procedure on "single interface" (or "all interfaces")	MCn NOT MCn 5.2	M N/A	5.5.1	[X]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	[X]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 [X]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 [X]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)	[X]Yes [ ]No
SCn 19	on occurrence of a message type or message sequence error, transmission of a STATUS message		O.25	5.8.4	[X]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 [X]No
SCn 23	processing of information elements regardless of their order in the message		O.26	5.8.5.1	[ ]Yes [X]No
SCn 24	ignoring out of sequence information elements		O.26	5.8.5.1	[X]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	[X]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 [X]No
SCn 37	on occurrence of non-mandatory information element content error, transmission of a STATUS message		O	5.8.7.2	[X]Yes [ ]No
SCn 38	truncation and processing of non-mandatory access information elements that are too long		O	5.8.7.2	[ ]Yes [X]No
	Data link failure				
SCn 140	use of Cause no. 41 "temporary failure"		O	5.8.9 a)	[X]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 [X]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)	[X]Yes [ ]No
SCn 45.1	transmission of a STATUS message		O.28	5.8.9 b)	[ ]Yes [X]No
SCn 45.2	initiation of the status enquiry procedure		O.28	5.8.9 b)	[X]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	[X]Yes [ ]No
	Receiving a STATUS message				
SCn 160.1	clearing the call on a call state mismatch		O.29	5.8.11	[X]Yes [ ]No
SCn 160.2	attempt to recover from a call state mismatch by implementation dependent means		O.29	5.8.11	[ ]Yes [X]No

(continued)

Table A.63 (concluded): Subsidiary capabilities of the network role

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 [X]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 [X]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 [X]N/A
SCn 171.2	a restriction that the 1536 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 [X]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 [X]N/A
SCn 172.2	selection of all the B-channels on another interface MCn 17 controlled by the D-channel	NOT MCn 17	X N/A	8.1.2, 8.2.2.1	[ ]Yes [ ]No [X]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 [X]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. Support				
O.24	of at least one of these options is required. Support of at least one of				
O.25	these options is required. Support of at least one of these options is				
O.26	required. Support of at least one of these options is required.				
O.27	Support of at least one of these options is required. Support of at				
O.28	least one of these options is required. Support of at least one of				
O.29	these options is required.				
O.30	"Inappropriate" messages are those that are neither a SETUP message nor a message specified to use the data				
NOTE:	unacknowledged information transfer service in support of another implemented application.				link

Comments:
1. Not supported for basic call. In combination with CW supplementary service : Yes.

A.8.4 Protocol data units

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

A.8.4.1 Messages received by the network

Indicating support for an item in table A.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 status of...	Conditions for	Status	Reference	Support
MRn 1	ALERTING		M	3.1.1, 5.2.5.2	[X]Yes [ ]No
MRn 2	CALL PROCEEDING		M	3.1.2, 5.2.5.2	[X]Yes [ ]No
MRn 4	CONNECT		M	3.1.3, 5.2.7	[X]Yes [ ]No
MRn 5	CONNECT ACKNOWLEDGE		M	3.1.4, 5.1.8	[X]Yes [ ]No
MRn 6	DISCONNECT		M	3.1.5, 5.3.3	[X]Yes [ ]No
MRn 8	INFORMATION		M	3.1.6, 5.1.3	[X]Yes [ ]No
MRn 9	NOTIFY		M	3.1.7, 5.6.2, 5.6.4, 5.6.7, 5.9	[X]Yes [ ]No
MRn 10	PROGRESS		M	3.1.8, 5.1.6	[X]Yes [ ]No
MRn 11	RELEASE		M	3.1.9, 5.3	[X]Yes [ ]No
MRn 12	RELEASE COMPLETE		M	3.1.10, 5.3	[X]Yes [ ]No
MRn 13	RESTART	MCn 5.1	M	3.4.1, 5.5.2	[X]Yes [ ]No
MRn 14	RESTART ACKNOWLEDGE	NOT MCn 5.1 MCn 5.2	N/A M	3.4.2, 5.5.1	[ ]N/A [X]Yes [ ]No
MRn 15	RESUME	NOT MCn 5.2 MCn 6	N/A M	3.1.11, 5.6.4	[ ]N/A [ ]Yes [ ]No
MRn 16	RESUME ACKNOWLEDGE	NOT MCn 6	N/A N/A		[X]N/A N/A
MRn 17	RESUME REJECT	N/A	N/A	MRn 18 SEGMENT	MCn
13	M	3.5.1, annex H	[X]Yes [ ]No		
MRn 19	SETUP	NOT MCn 13	N/A M	3.1.14, 5.1.1	[ ]N/A [X]Yes [ ]No
MRn 20	SETUP ACKNOWLEDGE		M	3.1.15, 5.2.4	[ ]Yes [X]No
MRn 21	STATUS		M	3.1.16, 3.4.3, 5.8.11	[X]Yes [ ]No
MRn 22	STATUS ENQUIRY		M	3.1.17, 5.8.10	[X]Yes [ ]No
MRn 23	SUSPEND	MCn 6	M	3.1.18, 5.6.1	[ ]Yes [ ]No
MRn 24	SUSPEND ACKNOWLEDGE	NOT MCn 6	N/A N/A		[X]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	[X]Yes [ ]No MTn 2	CALL
PROCEEDING	M	3.1.2, 5.1.5	[X]Yes [ ]No	MTn 4	CONNECT
	M	3.1.3, 5.1.8	[X]Yes [ ]No	MTn 5	CONNECT
ACKNOWLEDGE		M	3.1.4, 5.2.8	[X]Yes [ ]No MTn 6	
	DISCONNECT	M	3.1.5, 5.3.4	[X]Yes [ ]No MTn 8	
	INFORMATION	MCn 2.2	M	3.1.6, 5.2.4	[ ]Yes [X]No
		NOT MCn 2.2	O		
MTn 9	NOTIFY		M	3.1.7, 5.9	[X]Yes [ ]No
MTn 10	PROGRESS		M	3.1.8, 5.1.6, 5.2.6, 5.4, annex K	[X]Yes [ ]No
MTn 11	RELEASE		M	3.1.9, 5.3	[X]Yes [ ]No
MTn 12	RELEASE COMPLETE		M	3.1.10, 5.3	[X]Yes [ ]No
MTn 13	RESTART	MCn 5.2	M	3.4.1, 5.5.1	[X]Yes [ ]No
		NOT MCn 5.2	N/A		[ ]N/A
MTn 14	RESTART ACKNOWLEDGE	MCn 5.1	M	3.4.2, 5.5.2	[X]Yes [ ]No
		NOT MCn 5.1	N/A		[ ]N/A
MTn 15	RESUME		N/A		N/A
MTn 16	RESUME ACKNOWLEDGE	MCn 6	M	3.1.12, 5.6.4	[ ]Yes [ ]No
		NOT MCn 6	N/A		[X]N/A
MTn 17	RESUME REJECT	MCn 6	M	3.1.13, 5.6.5	[ ]Yes [ ]No
		NOT MCn 6	N/A		[X]N/A
MTn 18	SEGMENT	MCn 13	M	annex H	[X]Yes [ ]No
		NOT MCn 13	N/A		[ ]N/A
MTn 19	SETUP		M	3.1.14, 5.2.1 [X]Yes [ ]No	MTn 20
	SETUP ACKNOWLEDGE		M	3.1.15, 5.1.3 [X]Yes [ ]No	MTn 21
	STATUS		M	3.1.16, 3.4.3, 5.8.10, 5.8.10, 5.8.11	[X]Yes [ ]No
MTn 22	STATUS ENQUIRY		M	3.1.17, 5.8.10	[X]Yes [ ]No
MTn 23	SUSPEND		N/A		N/A
MTn 24	SUSPEND ACKNOWLEDGE	MCn 6	M	3.1.19, 5.6.2	[ ]Yes [ ]No
		NOT MCn 6	N/A		[X]N/A
MTn 25	SUSPEND REJECT	MCn 6	M	3.1.20, 5.6.3	[ ]Yes [ ]No
		NOT MCn 6	N/A		[X]N/A

Comments:

A.8.5 PDU parameters

The tables in this subclause ask questions related to the support of PDU parameters in messages received and transmitted by the IUT in the network role. In the DSS1 protocol, PDU parameters are known by the term "information elements".
Subclause A.8.5.1 contains tables relating to messages received by the IUT in the network role.
Subclause A.8.5.2 contains tables relating to messages transmitted by the IUT in the network role.
Tables A.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	[X]Yes [ ]No
MRn-IE30	Call reference		M	3.1, 4.3	[X]Yes [ ]No
MRn-IE31	Message type		M	3.1, 4.4	[X]Yes [ ]No
MRn-IE25	Shift		M	3.1, 4.5.2, 4.5.3, 4.5.4	[X]Yes [ ]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	[X]Yes [ ]No
MTn-IE30	Call reference		M	3.1, 4.3	[X]Yes [ ]No
MTn-IE31	Message type		M	3.1, 4.4	[X]Yes [ ]No
MTn-IE25	Shift		O	3.1, 4.5.2, 4.5.3, 4.5.4	[ ]Yes [X]No
Comments:					

Table A.68 covers those information elements defined by ITU-T Recommendation Q.931, 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	[ ]Yes [X]No
Mn-IE26	Signal		X	4.5.28	[ ]Yes [X]No
Comments:					

Table A.69 covers those information elements defined by ITU-T Recommendation Q.931, 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 subclause states that the implementation has the ability to process the information elements listed in the specified received messages. Such support does not necessarily mean that the indicated information element is included in every instance of the received message.

Table A.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	M	3.1.1, 5.11.3	[X]Yes [ ]No
		NOT MCn 21.2	N/A		[ ]N/A
MRn1-IE9	Channel identification		M	3.1.1, 5.2.3	[X]Yes [ ]No
MRn1-IE20	Progress indicator		M	3.1.1, 5.2.6, 5.11.3, 5.12.3	[X]Yes [ ]No
MRn1-IE12	Display		N/A		N/A
MRn1-IE14	High layer compatibility (T) (note)	MCn 22.2	M	3.1.1, 5.12.3	[X]Yes [ ]No
		NOT MCn 22.2	N/A		[ ]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	M	3.1.2, 5.11.3	[X]Yes [ ]No
		NOT MCn 21.2	N/A		[ ]N/A
MRn2-IE9	Channel identification		M	3.1.2, 5.2.3	[X]Yes [ ]No
MRn2-IE20	Progress indicator		M	3.1.2, 5.2.6, 5.11.3, 5.12.3	[X]Yes [ ]No
MRn2-IE12	Display		N/A		N/A
MRn2-IE14	High layer compatibility (T) (note)	MCn 22.2	M	3.1.2, 5.12.3	[X]Yes [ ]No
		NOT MCn 22.2	N/A		[ ]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	M	3.1.3, 5.11.2, 5.11.3	[X]Yes [ ]No
		NOT MCn 21.2	N/A		[ ]N/A
MRn4-IE9	Channel identification		M	3.1.3, 5.2.3	[X]Yes [ ]No
MRn4-IE20	Progress indicator		M	3.1.3, 5.2.6, 5.11.3, 5.12.3	[X]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	[X]Yes [ ]No
MRn4-IE14	High layer compatibility (T) (note 2)	MCn 22.2	M	3.1.3, 5.12.2	[X]Yes [ ]No
		NOT MCn 22.2	N/A		[ ]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	[X]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	[X]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	[X]Yes [ ]No
MRn8-IE4	Called party number		M	3.1.6, 5.1.1, 5.1.3	[X]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	[X]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	M	3.1.8, 5.11.3	[X]Yes [ ]No
		NOT MCn 21.2	N/A		[ ]N/A
MRn10-IE8	Cause (T)		I	3.1.8	[X]Yes [ ]No
MRn10-IE20	Progress indicator		M	3.1.8, 5.11.3, 5.12.3	[X]Yes [ ]No
MRn10-IE12	Display		N/A		N/A
MRn10-IE14	High layer compatibility (T) (note)	MCn 22.2	M	3.1.8, 5.12.3	[X]Yes [ ]No
		NOT MCn 22.2	N/A		[ ]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	[X]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	[X]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 M	M	3.4.1, 5.5	[X]Yes [ ]No
		NOT MRn 13	N/A		[ ]N/A
MRn13-IE12	Display	N/A	N/A	MRn13-IE22	Restart indicator
	13 M	3.4.1, 5.5	[X]Yes [ ]No		MRn
		NOT MRn 13	N/A		[ ]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 M	M	3.4.2, 5.5	[X]Yes [ ]No
		NOT MRn 14	N/A		[ ]N/A
MRn14-IE12	Display	N/A	N/A	MRn14-IE22	Restart indicator
	14 M	3.4.2, 5.5	[X]Yes [ ]No		MRn
		NOT MRn 14	N/A		[ ]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	M	3.1.11, 5.6.4, 5.6.5	[ ]Yes [ ]No
		NOT MRn 15	N/A		[X]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	M	3.5.1, annex H	[X]Yes [ ]No
		NOT MRn 18	N/A		[]N/A
MRn18-IEx	"Segment"	MRn 18	M	3.5.1, annex H	[X]Yes [ ]No
		NOT MRn 18	N/A		[]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	[X]Yes [ ]No
MRn19-IE1	Bearer capability		M	3.1.14, 5.1.1, 5.11.1	[X]Yes [ ]No
MRn19-IE9	Channel identification		M	3.1.14, 5.1.2	[X]Yes [ ]No
MRn19-IE20	Progress indicator		M	3.1.14, 5.1.6	[X]Yes [ ]No
MRn19-IE18	Network specific facilities	MCn 9	M	3.1.14, annex E	[ ]Yes [ ]No
		NOT MCn 9	N/A		[X]N/A
MRn19-IE12	Display		N/A		N/A
MRn19-IE15	Keypad facility (T) (note 1)		O	3.1.14, 5, 5.1.3	[X]Yes [ ]No
MRn19-IE6	Calling party number		M	3.1.14	[X]Yes [ ]No
MRn19-IE7	Calling party subaddress		M	3.1.14	[X]Yes [ ]No
MRn19-IE4	Called party number		M	3.1.14, 5.1.1, 5.1.3	[X]Yes [ ]No
MRn19-IE5	Called party subaddress (T) (note 2)		M	3.1.14, 5.1.1, 5.1.3	[X]Yes [ ]No
MRn19-IE27	Transit network selection	MCn 1.4	M	3.1.14, 5.1.10, annex C	[ ]Yes [ ]No
		NOT MCn 1.4	N/A		[X]N/A
MRn19-IE16	Low layer compatibility (T) (note 3)		M	3.1.14, annex I, annex J	[X]Yes [ ]No
MRn19-IE14	High layer compatibility (T) (note 4)		M	3.1.14, 5.12.1	[X]Yes [ ]No

NOTE 1: The support of this parameter implies the use of the information supplied in connection with one or more supplementary services.

NOTE 2: The support of this parameter implies the ability to pass this parameter to a non-protocol entity (e.g. call control) so that it be transported transparently between a call originating entity and the addressed entity.

NOTE 3: The support of this parameter implies the ability to either a) pass this parameter to a non-protocol entity (e.g. call control) so that it be transported transparently between a call originating entity and the addressed entity; or b) 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, 5.11.3, 5.12.3	5.2.6, [ ]Yes [ ]No
MRn20-IE12 Display			N/A		N/A

Comments:
This table is N/A : Receipt of SETUP ACKNOWLEDGE by the network is not supported.

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, 5.8.10, 5.8.11	3.4.3, [X]Yes [ ]No
MRn21-IE3	Call state		M	3.1.16, 5.8.3.2, 5.8.11	3.4.3, [X]Yes [ ]No 5.8.10,
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	M	3.1.18, 5.6.2, 5.6.3	5.6.1, [ ]Yes [ ]No
		NOT MRn 23	N/A		[X]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 subclause states that the implementation has the ability to generate, and to transmit in the specified message, the information elements listed. Such support does not necessarily mean that the indicated information element is included in every instance of the transmitted message.

Table A.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	[X]Yes [ ]No [ ]N/A
MTn1-IE9	Channel identification		X		[ ]Yes [X]No
MTn1-IE20	Progress indicator		M	3.1.1, 5.1.6, 5.11.1, 5.12.1, annex K	[X]Yes [ ]No
MTn1-IE12	Display		O	3.1.1	[ ]Yes [X]No
MTn1-IE14	High layer compatibility	MCn 22.1 NOT MCn 22.1	M N/A	3.1.1, 5.12.1	[X]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	[X]Yes [ ]No [ ]N/A
MTn2-IE9	Channel identification		M	3.1.2, 5.1.2	[X]Yes [ ]No
MTn2-IE20	Progress indicator		M	3.1.2, 5.1.6, 5.11.1, 5.12.1	[X]Yes [ ]No
MTn2-IE12	Display		O	3.1.2	[ ]Yes [X]No
MTn2-IE14	High layer compatibility	MCn 22.1 NOT MCn 22.1	M N/A	3.1.2, 5.12.1	[X]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	[X]Yes [ ]No [ ]N/A
MTn4-IE9	Channel identification		X		[ ]Yes [X]No
MTn4-IE20	Progress indicator		M	3.1.3, 5.1.6, 5.11.1, 5.12.1	[X]Yes [ ]No
MTn4-IE12	Display		O	3.1.3	[ ]Yes [X]No
MTn4-IE11	Date/time		O	3.1.3	[X]Yes [ ]No
MTn4-IE16	Low layer compatibility		O	3.1.3, annex J	[X]Yes [ ]No
MTn4-IE14	High layer compatibility	MCn 22.1 NOT MCn 22.1	M N/A	3.1.3, 5.12.1	[X]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 [X]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	[X]Yes [ ]No
MTn6-IE20	Progress indicator		M	3.1.5, 5.3.4.1,	[X]Yes [ ]No
MTn6-IE12	Display		O	3.1.5	[ ]Yes [X]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	O	3.1.6, 5.2.4	[ ]Yes [ ]No [X]N/A
		NOT MTn 8 OR NOT SCn 112.1	N/A		
MTn8-IE8	Cause	MTn 8	O	3.1.6	[ ]Yes [ ]No [X]N/A
		NOT MTn 8	N/A		
MTn8-IE12	Display	MTn 8	O	3.1.6	[ ]Yes [ ]No [X]N/A
		NOT MTn 8	N/A		
MTn8-IE15	Keypad facility	MTn 8	O	3.1.6	[ ]Yes [ ]No [X]N/A
		NOT MTn 8	N/A		
MTn8-IE4	Called party number	MTn 8	M	3.1.6, 5.2.4	[ ]Yes [ ]No [X]N/A
		NOT MTn 8	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	[X]Yes [ ]No
MTn9-IE12	Display		O	3.1.7	[ ]Yes [X]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	M	3.1.8, 5.11.1	[X]Yes [ ]No
		NOT MCn 21.1	N/A		[ ]N/A
MTn10-IE8	Cause		O	3.1.8	[X]Yes [ ]No
MTn10-IE20	Progress indicator		M	3.1.8, 5.1.6, 5.2.6, 5.11.1, 5.12.1	[X]Yes [ ]No
MTn10-IE12	Display		O	3.1.8	[ ]Yes [X]No
MTn10-IE14	High layer compatibility	MCn 22.1	M	3.1.8, 5.12.1	[X]Yes [ ]No
		NOT MCn 22.1	N/A		[ ]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	[X]Yes [ ]No
MTn11-IE12	Display		O	3.1.9	[ ]Yes [X]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	[X]Yes [ ]No
MTn12-IE12	Display		O	3.1.10	[ ]Yes [X]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	M	3.4.1, 5.5	[X]Yes [ ]No
		NOT MTn 13	N/A		[ ]N/A
MTn13-IE12	Display	MTn 13	O	3.4.1	[ ]Yes [X]No
		NOT MTn 13	N/A		[ ]N/A
MTn13-IE22	Restart indicator	MTn 13	M	3.4.1, 5.5	[X]Yes [ ]No
		NOT MTn 13	N/A		[ ]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	M	3.4.2, 5.5	[X]Yes [ ]No
		NOT MTn 14	N/A		[ ]N/A
MTn14-IE12	Display	MTn 14	O	3.4.2	[ ]Yes [X]No
		NOT MTn 14	N/A		[ ]N/A
MTn14-IE22	Restart indicator	MTn 14	M	3.4.2, 5.5	[X]Yes [ ]No
		NOT MTn 14	N/A		[ ]N/A
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	M	3.1.12, 5.6.4	[ ]Yes [ ]No
		NOT MTn 16	N/A		[X]N/A
MTn16-IE12	Display	MTn 16	O	3.1.12	[ ]Yes [ ]No
		NOT MTn 16	N/A		[X]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	M	3.1.13, 5.6.5	[ ]Yes [ ]No
		NOT MTn 17	N/A		[X]N/A
MTn17-IE12	Display	MTn 17	O	3.1.13	[ ]Yes [ ]No
		NOT MTn 17	N/A		[X]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	M	3.5.1, annex H	[X]Yes [ ]No
		NOT MTn 18	N/A		[ ]N/A
MTn18-IEx	"Segment"	MTn 18	M	3.5.1, annex H	[X]Yes [ ]No
		NOT MTn 18	N/A		[ ]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	[X]Yes [ ]No [ ]N/A
MTn19-IE1	Bearer capability		M	3.1.14, 5.2.1	[X]Yes [ ]No
MTn19-IE9	Channel identification		M	3.1.14, 5.2.3	[X]Yes [ ]No
MTn19-IE20	Progress indicator		M	3.1.14, 5.2.6	[X]Yes [ ]No
MTn19-IE18	Network specific facilities		O	3.1.14, annex E	[ ]Yes [X]No
MTn19-IE12	Display		O	3.1.14, 5.2.1	[ ]Yes [X]No
MTn19-IE15	Keypad facility		O	[ ]Yes [X]No MTn19-IE6 Calling party number	Comment 1
	O		3.1.14	[ ]Yes [X]No	
MTn19-IE7	Calling party subaddress		O	3.1.14	comment 2 [ ]Yes [X]No
MTn19-IE4	Called party number		M	3.1.14, 5.2.1, 5.2.2, 5.2.3, 5.2.4	comment 2 [X]Yes [ ]No
MTn19-IE5	Called party subaddress		M	3.1.14	[ ]Yes [X]No
MTn19-IE27	Transit network selection		X		comment 3 [ ]Yes [X]No
MTn19-IE16	Low layer compatibility		M	3.1.14, 5.2.1, annex I, annex J	[X]Yes [ ]No
MTn19-IE14	High layer compatibility		M	3.1.14, 5.2.1, 5.12.1	[X]Yes [ ]No

Comments:
1. Not supported for basic call. In combination with the Calling Name Identification Presentation (CNIP) supplementary service : Yes.
2. Not supported for basic call. In combination with the Calling Line Identification Presentation (CLIP) supplementary service: Yes
3. Not supported for basic call. In combination with the Subadressing (SUB) supplementary service: Yes

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	[X]Yes [ ]No MTn20-
IE20	Progress indicator		M	3.1.15, 5.1.6, 5.11.1, 5.12.1, annex K	[X]Yes [ ]No
MTn20-IE12	Display		O	3.1.15	[ ]Yes [X]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	[X]Yes [ ]No
MTn21-IE3	Call state		M	3.1.16, 3.4.3, 5.8	[X]Yes [ ]No
MTn21-IE12	Display		O	3.1.16	[ ]Yes [X]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	[ ]Yes [X]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	O	3.1.19	[ ]Yes [ ]No
		NOT MTn 24	N/A		[X]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	M	3.1.20, 5.6.3	[ ]Yes [ ]No
		NOT MTn 25	N/A		[X]N/A
MTn25-IE12	Display	MTn 25	O	3.1.20	[ ]Yes [ ]No
		NOT MTn 25	N/A		[X]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 as modified by ETS 300 403-1 [1] and with the relevant behaviour specified in clause 5 of ITU-T Recommendation Q.931 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	M	Table 9.1	[X]Yes [ ]No	> 180 s	180 s
		TIn 6	N/A		[ ]N/A		
TMn 2	T302		M	Table 9.1	[X]Yes [ ]No	10 - 15 s	15 s
TMn 3	T303		M	Table 9.1	[X]Yes [ ]No	4s	4s
TMn 4	T304	MCn 2.2	M	Table 9.1	[ ]Yes [ ]No	20 s	
		NOT MCn 2.2	N/A		[X]N/A		
TMn 5	T305		M	Table 9.1	[X]Yes [ ]No	30 s	30 s
TMn 6	T306	MCn 1.5	M	Table 9.1	[X]Yes [ ]No	30 s	30 s
		NOT MCn 1.5	N/A		[ ]N/A		
TMn 7	T307		M	Table 9.1	[X]Yes [ ]No	180 s	180 s
TMn 8	T308		M	Table 9.1	[X]Yes [ ]No	4s	4s
TMn 9	T309		M	Table 9.1	[X]Yes [ ]No	6 - 12 s (note) implemented: 90 s	
TMn 10	T310		M	Table 9.1	[X]Yes [ ]No	30 - 40 s	30 s
TMn 11	T312		M	Table 9.1	[X]Yes [ ]No	T303 + 2 s	6s
TMn 13	T314	MCn 13	M	Table 9.1	[X]Yes [ ]No 4 s		4s
		NOT MCn 13	N/A		[ ]N/A		
TMn 14	T316	MCn 5.2	M	Table 9.1	[X]Yes [ ]No 120 s		120 s
		NOT MCn 5.2	N/A		[ ]N/A		
TMn 15	T317	MCn 5.1	M	Table 9.1	[X]Yes [ ]No < T316		90 s
		NOT MCn 5.1	N/A		[ ]N/A		
TMn 18	T321		I	[ ]Yes [X]No	N/A	N/A TMn 19	T322
	M		Table 9.1	[X]Yes [ ]No	4s	4s TMn 20	T320
	I		[ ]Yes [X]No	N/A	N/A		
NOTE:	The value of T309 is calculated according to the formula: T309 = (N200+1)*T200+2 s.						

Comments:

A.8.7 Compatibility information elements structure

Table A.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		[X]Yes [ ]No
	1. CCITT standardized coding	M	0	[X]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		[X]Yes [ ]No
	1. Speech	O	0	[X]Yes [ ]No
	2. Unrestricted digital	O	8	[X]Yes [ ]No
	3. Restricted digital	N/A	9	
	4. 3,1 kHz audio	O	16	[X]Yes [ ]No
	5. Unrestricted digital information with tones/announcements	O	17	[X]Yes [ ]No
	6. Video	N/A	24	
ISn 1.3	Octet 4 bits 6 and 7, transfer mode	M		[X]Yes [ ]No
	1. Circuit	O	0	[X]Yes [ ]No
	2. Packet	N/A	2	
ISn 1.4	Octet 4 bits 1 to 5, information transfer rate	M		[X]Yes [ ]No
	1. 64 kbit/s	O	16	[X]Yes [ ]No
	2. 2 x 64 kbit/s	N/A	17	
	3. 384 kbit/s	N/A	19	
	4. 1536 kbit/s	N/A	21	
	5. 1920 kbit/s	N/A	23	
	6. Multirate	O	24	[ ]Yes [X]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		[X]Yes [ ]No
	1. V.110/X.30	O	1	[X]Yes [ ]No
	2. G.711 µ-law	N/A	2	
	3. G.711 A-law	O	3	[X]Yes [ ]No
	4. G.721 32 kbit/s ADPCM and I.460	O	4	[X]Yes [ ]No
	5. G.722 and G.725 7kHz audio	O	5	[X]Yes [ ]No
	7. Non-CCITT rate adaption	O	7	[X]Yes [ ]No
	8. V.120	N/A	8	
	9. X.31 HDLC	O	9	[X]Yes [ ]No
ISn 1.11	Octet 5a bit 7, synchronous/asynchronous	O		[X]Yes [ ]No
	1. Synchronous	O	0	[X]Yes [ ]No
	2. Asynchronous	O	1	[X]Yes [ ]No
ISn 1.12	Octet 5a bit 6, negotiation indicator	O		[X]Yes [ ]No
	1. In-band negotiation not possible	O	0	[X]Yes [ ]No
	2. In-band negotiation possible	O	1	[X]Yes [ ]No
ISn 1.13	Octet 5a bits 1 to 5, user rate	O		[X]Yes [ ]No
	1. Rate indicated by E bits (I.460)	O	0	[X]Yes [ ]No
	2. 0,6 kbit/s CCITT V.6 and X.1	O	1	[X]Yes [ ]No
	3. 1,2 kbit/s CCITT V.6	O	2	[X]Yes [ ]No
	4. 2,4 kbit/s CCITT V.6 and X.1	O	3	[X]Yes [ ]No
	5. 3,6 kbit/s CCITT V.6	O	4	[X]Yes [ ]No
	6. 4,8 kbit/s CCITT V.6 and X.1	O	5	[X]Yes [ ]No
	7. 7,2 kbit/s CCITT V.6	O	6	[X]Yes [ ]No
	8. 8 kbit/s CCITT I.460	O	7	[X]Yes [ ]No
	9. 9,6 kbit/s CCITT V.6 and X.1	O	8	[X]Yes [ ]No
	10. 14,4 kbit/s CCITT V.6	O	9	[X]Yes [ ]No
	11. 16 kbit/s CCITT I.460	O	10	[X]Yes [ ]No
	12. 19,2 kbit/s CCITT V.6	O	11	[X]Yes [ ]No
	13. 32 kbit/s CCITT I.460	O	12	[X]Yes [ ]No
	14. 48 kbit/s CCITT V.6 and X.1	O	14	[X]Yes [ ]No
	15. 56 kbit/s CCITT V.6	O	15	[X]Yes [ ]No
	16. 64 kbit/s CCITT X.1	O	16	[X]Yes [ ]No
	17. 0,1345 kbit/s CCITT X.1	O	21	[X]Yes [ ]No
	18. 0,100 kbit/s CCITT X.1	O	22	[X]Yes [ ]No
	19. 0,075/1,2 kbit/s CCITT V.6 and X.1	O	23	[X]Yes [ ]No

(continued)

Table A.111 (concluded): Bearer Capability structure

Item	Information element field	Status	Values	Support
	20. 1,2/0,075 kbit/s CCITT V.6 and X.1	O	24	[X]Yes [ ]No
	21. 0,050 kbit/s CCITT V.6 and X.1	O	25	[X]Yes [ ]No
	22. 0,075 kbit/s CCITT V.6 and X.1	O	26	[X]Yes [ ]No
	23. 0,110 kbit/s CCITT V.6 and X.1	O	27	[X]Yes [ ]No
	24. 0,150 kbit/s CCITT V.6 and X.1	O	28	[X]Yes [ ]No
	25. 0,200 kbit/s CCITT V.6 and X.1	O	29	[X]Yes [ ]No
	26. 0,300 kbit/s CCITT V.6 and X.1	O	30	[X]Yes [ ]No
	27. 12 kbit/s CCITT V.6	O	31	[X]Yes [ ]No
	Octet 5b, for V.110/X.30 rate adaption			
ISn 1.14	Octet 5b bits 6 and 7, intermediate rate	O		[X]Yes [ ]No
	1. Not used	O	0	[X]Yes [ ]No
	2. 8 kbit/s	O	1	[X]Yes [ ]No
	3. 16 kbit/s	O	2	[X]Yes [ ]No
	4. 32 kbit/s	O	3	[X]Yes [ ]No
ISn 1.15	Octet 5b bit 5, network independent clock (NIC) on transmission	O		[X]Yes [ ]No
	1. Not required to send data with NIC	O	0	[X]Yes [ ]No
	2. Required to send data with NIC	O	1	[X]Yes [ ]No
ISn 1.16	Octet 5b bit 4, NIC on reception	O		[X]Yes [ ]No
	1. Cannot accept data with NIC	O	0	[X]Yes [ ]No
	2. Can accept data with NIC	O	1	[X]Yes [ ]No
ISn 1.17	Octet 5b bit 3, flow control on transmission	O		[X]Yes [ ]No
	1. Not required to send data with flow control	O	0	[X]Yes [ ]No
	2. Required to send data with flow control	O	1	[X]Yes [ ]No
ISn 1.18	Octet 5b bit 2, flow control on reception	O		[X]Yes [ ]No
	1. Cannot accept data with flow control mechanism	O	0	[X]Yes [ ]No
	2. Can accept data with flow control mechanism	O	1	[X]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		[X]Yes [ ]No
	1. Not used	O	0	[X]Yes [ ]No
	2. 1 bit	O	1	[X]Yes [ ]No
	3. 1,5 bits	O	2	[X]Yes [ ]No
	4. 2 bits	O	3	[X]Yes [ ]No
ISn 1.26	Octet 5c bits 4 and 5, number of data bits excluding parity	O		[X]Yes [ ]No
	1. Not used	O	0	[X]Yes [ ]No
	2. 5 bits	O	1	[X]Yes [ ]No
	3. 7 bits	O	2	[X]Yes [ ]No
	4. 8 bits	O	3	[X]Yes [ ]No
ISn 1.27	Octet 5c bits 1 to 3, parity information	O		[X]Yes [ ]No
	1. Odd	O	0	[X]Yes [ ]No
	2. Even	O	2	[X]Yes [ ]No
	3. None	O	3	[X]Yes [ ]No
	4. Forced to 0	O	4	[X]Yes [ ]No
	5. Forced to 1	O	5	[X]Yes [ ]No
ISn 1.28	Octet 5d bit 7, duplex mode	O		[X]Yes [ ]No
	1. Half duplex	O	0	[X]Yes [ ]No
	2. Full duplex	O	1	[X]Yes [ ]No
ISn 1.29	Octet 5d bits 1 to 6, modem type	O		[X]Yes [ ]No
	1. V.21	O	17	[X]Yes [ ]No
	2. V.22	O	18	[X]Yes [ ]No
	3. V.22 bis	O	19	[X]Yes [ ]No
	4. V.23	O	20	[X]Yes [ ]No
	5. V.26	O	21	[X]Yes [ ]No
	6. V.26 bis	O	22	[X]Yes [ ]No
	7. V.26 ter	O	23	[X]Yes [ ]No
	8. V.27	O	24	[X]Yes [ ]No
	9. V.27 bis	O	25	[X]Yes [ ]No
	10. V.27 ter	O	26	[X]Yes [ ]No
	11. V.29	O	27	[X]Yes [ ]No
	12. V.32	O	28	[X]Yes [ ]No
ISn 1.30	Octet 6 bits 1 to 5, user information layer 2 protocol	O		[X]Yes [ ]No
	1. Q.921	O	2	[X]Yes [ ]No
	2. X.25 link level	O	6	[X]Yes [ ]No
ISn 1.31	Octet 7 bits 1 to 5, user information layer 3 protocol	O		[X]Yes [ ]No
	1. Q.931	O	2	[X]Yes [ ]No
	2. X.25 packet layer	O	6	[X]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 parameters and values...	Conditions for element status	Status	Values	Support
CGPrn 1.1	TON (octet 3)		M	[X]Yes [ ]No	CGPrn 1.2 NPI (octet 3)
	M		[X]Yes [ ]No	CGPrn 1.3	Presentation indicator (octet 3a)
			M	[X]Yes [ ]No	CGPrn 1.4 Screening indicator (octet 3a)
			M	[X]Yes [ ]No	CGPrn 1.5 Number digits (octet 4 onwards)
			M	Up to 20 digits; [X]Yes [ ]No max. value supported:	
Comments:					

Table A.113: Calling party number information element in SETUP transmitted by the network

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

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	[X]Yes [ ]No	CDP1rn 1.2 NPI (octet 3)
			M	[X]Yes [ ]No	CDP1rn 1.3 Number digits (octet 4 onwards)
			M	Up to 20 digits; max. value supported:	[X]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		[X]Yes [ ]No
	1. Unknown		O	0	[X]Yes [ ]No
	2. International number		O	1	[ ]Yes [X]No
	3. National number		O	2	[X]Yes [ ]No
	4. Network specific number		O	3	[ ]Yes [X]No
	5. Subscriber number		O	4	[ ]Yes [X]No
	6. Abbreviated number		O	6	[ ]Yes [X]No
CDP1tn 1.2	NPI (octet 3)		M		[X]Yes [ ]No
	1. Unknown		O	0	[X]Yes [ ]No
	2. ISDN/telephony numbering plan		O	1	[X]Yes [ ]No
	3. Data numbering plan		O	3	[ ]Yes [X]No
	4. Telex numbering plan		O	4	[ ]Yes [X]No
	5. National standard numbering plan		O	8	[ ]Yes [X]No
	6. Private numbering plan		O	9	[ ]Yes [X]No
CDP1tn 1.3	Number digits (octet 4 onwards)		O	Up to 20 digits; max. value supported:	[X]Yes [ ]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	[X]Yes [ ]No	CDP2rn 1.2 NPI (octet 3)
			M	[X]Yes [ ]No	CDP2rn 1.3 Number digits (octet 4 onwards)
			M	Up to 20 digits; max. value supported:	[X]Yes [ ]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)	MTn 8-IE4	M		[ ]Yes [ ]No
		NOT MTn 8-IE4	N/A		[X]N/A
	1. Unknown		O	0	[ ]Yes [ ]No
	2. International number		O	1	[ ]Yes [ ]No 3.
	National number		O	2	[ ]Yes [ ]No 4.
	Network specific number		O	3	[ ]Yes [ ]No 5.
	Subscriber number		O	4	[ ]Yes [ ]No 6.
	Abbreviated number		O	6	[ ]Yes [ ]No
CDP2tn 1.2	NPI (octet 3)	MTn 8-IE4	M		[ ]Yes [ ]No
		NOT MTn 8-IE4	N/A		[X]N/A
	1. Unknown		O	0	[ ]Yes [ ]No 2.
	ISDN/telephony numbering plan		O	1	[ ]Yes [ ]No 3.
	Data numbering plan		O	3	[ ]Yes [ ]No 4.
	Telex numbering plan		O	4	[ ]Yes [ ]No 5.
	National standard numbering plan		O	8	[ ]Yes [ ]No 6.
	Private numbering plan		O	9	[ ]Yes [ ]No
CDP2tn 1.3	Number digits (octet 4 onwards)	MTn 8-IE4	O	Up to 20 digits;	[ ]Yes [ ]No
		NOT MTn 8-IE4	N/A	max. value supported:	[X]N/A
Comments:					

PART 4

SIEMENS

6. PICS proforma

6.1 Identification of the implementation

6.1.1 Implementation Under Test (IUT) identification

IUT name:

.....

.....

IUT version:

.....

6.1.2 System Under Test (SUT) identification

SUT name:

EWSD .....

.....

Hardware configuration:

.....

.....

.....

Operating system:

V16 BEL .....

6.1.3 Product supplier

Name:

Siemens Atea n.v.

Address:

Atealaan 34
B-2200 Herentals
Belgium

Telephone number:

+32 14 25 21 11

Facsimile number:
Fax + 32 14 25 33 33 .....
Additional information:
EWSD V16 BEL

6.1.4 Client

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

Additional information:

.....

.....

.....

6.1.5 PICS contact person

Name:

Telephone number:

Facsimile number:

Additional information:

.....

.....

.....

6.2 PICS/System Conformance Statement (SCS)

Provide the relationship of the PICS with the SCS for the system:

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

6.3 Identification of the protocol

This PICS proforma applies to the following standard:

ETS 300 102-1 (1990): "Integrated Services Digital Network (ISDN); User-network interface layer 3; Specifications for basic call control".

6.4 Global statement of conformance

The implementation described in this PICS meets all the mandatory requirements of the referenced standard.

[**x**] **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.

6.5 Information for conformance testing

6.5.1 Major capabilities

Unless otherwise indicated all references in the tables are to subclauses in ETS 300 102-1 [1].

Table 1: Major capabilities

Item	Major capability Does the implementation...	Conditions for status	Status	Reference	Support
MC 1	support call establishment at the originating interface (outgoing calls from the user's point of view)?		M	5.1	[x]Yes [ ]No
MC 1.1	support procedures of en-bloc receiving (sending from the user's point of view)?		M	5.1.1, 5.1.5.1, 5.1.8	[x]Yes [ ]No
MC 1.2	support procedures of overlap receiving (sending from the user's point of view)?		M	5.1.3, 5.1.5.2, 5.1.8	[x]Yes [ ]No
MC 1.3	interpret notification of interworking received from the calling user?		M	5.1.6	[x]Yes [ ]No
MC 1.4	support transit network selection?		O	5.1.10, annex C	[ ]Yes [x]No
MC 1.5	provide in-band information and in-band tones/announcements?		O	5.1.2, 5.1.3, 5.1.7, 5.3.4.1, 5.4	[x]Yes [ ]No
MC 1.6	send notification of interworking from the called user or network to the calling user?		M	5.1.6	[x]Yes [ ]No
MC 2	support call establishment at the destination interface (incoming calls from the user's point of view)?		M	5.2	[x]Yes [ ]No
MC 2.1	support procedures of en-bloc sending (receiving from the user's point of view)?		O.1	5.2.1, 5.2.5.1	[x]Yes [ ]No
MC 2.2	support procedures of overlap sending (receiving from the user's point of view)?		O.1	5.2.1, 5.2.4	[x]Yes [ ]No
MC 2.3	send notification of interworking received from the calling user or network?		M	5.2.6	[x]Yes [ ]No
MC 2.4	support delivery of the SETUP message to the called user on the point-to-point data link?		M	5.2.1, 5.2.3.1	[x]Yes [ ]No
MC 2.5	support delivery of the SETUP message to the called user on the broadcast data link?		N/A 2	5.2.1, 5.2.3.2	
MC 2.6	send notification of interworking at the destination interface to the calling user?		M	5.2.6	[x]Yes [ ]No
MC 3	accept user-initiated call clearing?		M	5.3.3	[x]Yes [ ]No

Item	Major capability Does the implementation...	Conditions for status	Status	Reference	Support
MC 4.1	support call clearing initiated by the network with tones/announcements provided?	MC 1.5 NOT MC 1.5	M N/A	5.3.4.1	[**x**]Yes [ ]No
MC 4.2	support call clearing initiated by the network with tones/announcements not provided?		M	5.3.4.2	[**x**]Yes [ ]No
					[ ]Yes [ ]No
MC 5	support the restart procedure?		M	5.5	[**x**]Yes [ ]No
					[ ]Yes [ ]No
MC 6	support call rearrangement procedures?		N/A 3	5.6	
MC 7.1	support response to Status enquiry message?		M	5.8.10	[**x**]Yes [ ]No
MC 7.2	support sending of Status enquiry message?		O	5.8.10	[**x**]Yes [ ]No
MC 8	support symmetric call operation?		N/A 3	annex D	
MC 9	support network specific facility selection?		O	annex E	[ ]Yes [**x**]No
MC 10	support Low layer compatibility information element negotiation?		N/A 2	annex M	
MC 11.1	support user-to-user signalling during the set-up and clearing phases of a call (service 1)?		N/A 3 (note)	7.1.1, 7.1.3	
MC 11.2	support user-to-user signalling during call establishment (service 2)?		N/A 3 (note)	7.1.1, 7.1.4	
MC 11.3	support user-to-user signalling in the Active state of a call (service 3)?		N/A 3 (note)	7.1.1, 7.1.5	
MC 12	support procedures for establishment of bearer connection prior to call acceptance?		O	annex N	[ ]Yes [**x**]No
MC 13	support message segmentation procedures?		O	annex K	[**x**]Yes [ ]No
MC 14	D-channel back-up procedure?		N/A 3	annex F	
MC 15	support procedures for bearer service change?		N/A 3	annex O	
O.1	MC 2.1 and MC 2.2	Support of at least one of these options is required.			
NOTE:	These capabilities appear in the PICS proforma for UUS supplementary service. The designation of not applicable to ETSI networks is therefore only in the context of basic call control.				

Comments:

6.5.2 Subsidiary capabilities

Table 2: Subsidiary capabilities

Item	Subsidiary capability Does the implementation...	Conditions for status	Status	Reference	Support
	Call procedures				
SC 1	include the Sending complete information element in the SETUP message to the called user?		O	5.2.1, 5.2.4	[**x**]Yes [ ]No
SC 2	support the indication "no B-channel available" in the SETUP message to the called user?		O	5.2.3.1	[**x**]Yes [ ]No
SC 3	use a 2 octets call reference value in an outgoing SETUP message?		M	4.3	[**x**]Yes [ ]No
SC 4.1	accept only one SETUP ACKNOWLEDGE message from the called user on point-to-point data link?	MC 2.2 NOT MC 2.2	M N/A	5.2.4	[**x**]Yes [ ]No
SC 4.2	accept up to 8 SETUP ACKNOWLEDGE messages from the called user on broadcast data link?		N/A 2	5.2.4	
SC 5	clear subsequent responding users after the first SETUP ACKNOWLEDGE message on broadcast data link?		N/A 2	5.2.4	
SC 6	clear non-selected users on broadcast data link?		N/A 2	5.2.9	
SC 7	support priority to incoming call (form the user's point of view) on call collision?		M	5.7	[**x**]Yes [ ]No
SC 8	check calling side compatibility?		M	5.1.5, annex B.2	[**x**]Yes [ ]No
	General errors				
SC 9	ignore a received message with protocol discriminator error?		M	5.8.1	[**x**]Yes [ ]No
SC 10	ignore a received message too short to contain a complete information element?		M	5.8.2	[**x**]Yes [ ]No
	Call reference errors				
SC 11	ignore a received message with Call reference octet 1 bits 5 to 8 not equal to 0?		M	5.8.3.1	[**x**]Yes [ ]No
SC 12.1	ignore a received message if the Call reference information element octet 1, bits 1 through 4 indicate a length greater than the maximum length supported?		M	5.8.3.1	[**x**]Yes [ ]No
SC 12.2	ignore a received message related to basic call containing the dummy Call reference value?		M	5.8.3.1	[**x**]Yes [ ]No

SC 12.3 SC 12.3.1 SC 12.3.2 SC 12.3.3	ignore a Call reference information element of a length other than those supported? Specifically: greater than 1? less than 2? greater than 2?		 N/A 2 O O	5.8.3.1	 [**x**]Yes [ ]No [ ]Yes [**x**]No
SC 13	clear call on receiving any message other than SETUP, RELEASE, RELEASE COMPLETE, STATUS, RESUME, with unrecognizable Call reference value?		M	5.8.3.2 (a)	[**x**]Yes [ ]No
SC 14	transmit a RELEASE COMPLETE message on receiving a RELEASE message with unrecognizable Call reference value?		M	5.8.3.2 (b)	[**x**]Yes [ ]No
SC 15	take no action on receiving a RELEASE COMPLETE message with unrecognizable Call reference value?		M	5.8.3.2 (c)	[**x**]Yes [ ]No
SC 16	ignore a received SETUP or RESUME message with unrecognizable Call reference value or with a Call reference flag incorrectly set to "1"?		M	5.8.3.2 (d)	[**x**]Yes [ ]No
SC 17	ignore a SETUP message containing a Call reference value relating to an existing call?		M	5.8.3.2 (e)	[**x**]Yes [ ]No
SC 18	transmit a STATUS message on receiving any message other than RESTART, RESTART ACKNOWLEDGE, STATUS, with global Call reference value?		M	5.8.3.2 (f)	[**x**]Yes [ ]No
	Message type, message sequence errors				
SC 19	transmit a STATUS message on receipt of an unexpected message other than RELEASE, RELEASE COMPLETE or of an unrecognizable message in any other state than the Null state?		O.1	5.8.4	[**x**]Yes [ ]No
SC 20	initiate status enquiry procedures on receipt of an unexpected message other than RELEASE, RELEASE COMPLETE or of an unrecognizable message in any other state than the Null state?		O.1	5.8.4, 5.8.10	[ ]Yes [**x**]No
SC 21	clear call on receipt of an unexpected RELEASE, RELEASE COMPLETE message?		M	5.8.4	[**x**]Yes [ ]No

	General information element errors				
SC 22	support general information element error procedures in codesets other than 0?		M	5.8.5	[**x**]Yes [ ]No
SC 23	process information elements regardless of their order in the message?		O.2	5.8.5.1	[ ]Yes [**x**]No
SC 24	ignore out of sequence information elements?		O.2	5.8.5.1	[**x**]Yes [ ]No
SC 25	ignore not permitted repetitions of an information element?		M	5.8.5.2	[**x**]Yes [ ]No
SC 26	handle permitted repetitions (up to a limit) of an information element?		M	5.8.5.2	[**x**]Yes [ ]No
	Mandatory information element errors				
SC 27	take no action, except for the sending of a STATUS message, on receipt of a message other than SETUP, DISCONNECT, RELEASE, RELEASE COMPLETE, - with mandatory information elements missing or - with mandatory information elements having invalid content or - with unrecognized information elements encoded to indicate "comprehension required"?		M	5.8.6.1, 5.8.6.2, 5.8.7.1	[**x**]Yes [ ]No
SC 28	return a RELEASE COMPLETE message, on receipt of a SETUP or RELEASE message, - with mandatory information elements missing or - with mandatory information elements having invalid content or - with unrecognized information elements encoded to indicate "comprehension required"?		M	5.8.6.1, 5.8.6.2, 5.8.7.1	[**x**]Yes [ ]No
SC 29	clear the call on receipt of a DISCONNECT message, - with the Cause information element missing or - with mandatory information elements missing or - with mandatory information elements having invalid content or - with unrecognized information elements encoded to indicate "comprehension required"?		M	5.8.6.1, 5.8.6.2, 5.8.7.1	[**x**]Yes [ ]No

SC 30	handle a RELEASE COMPLETE message as normal even if it, - has the Cause information element missing or - has mandatory information elements missing or - has mandatory information elements with invalid content or - has unrecognized information elements encoded to indicate "comprehension required"?		M	5.8.6.1, 5.8.6.2, 5.8.7.1	[**x**]Yes [ ]No
SC 31	treat information elements with length exceeding the maximum as with invalid content?		M	5.8.6.2	[**x**]Yes [ ]No
	Non-mandatory information element errors				
SC 32	transmit a STATUS message on receipt of a message other than DISCONNECT, RELEASE, RELEASE COMPLETE, with unrecognized non-mandatory information elements not encoded to indicate "comprehension required"?		M	5.8.7.1	[**x**]Yes [ ]No
SC 33	transmit a RELEASE message on receipt of a DISCONNECT message with unrecognized non-mandatory information elements?		M	5.8.7.1	[**x**]Yes [ ]No
SC 34	transmit a RELEASE COMPLETE message on receipt of a RELEASE message with unrecognized non-mandatory information elements?		M	5.8.7.1	[**x**]Yes [ ]No
SC 35	take no action on the unrecognized information on receipt of a RELEASE COMPLETE message with unrecognized non-mandatory information elements?		M	5.8.7.1	[**x**]Yes [ ]No
SC 36	ignore incorrect or unrecognizable non-mandatory information elements?		O.3	5.8.7.2	[ ]Yes [**x**]No
SC 37	transmit a STATUS message on receipt of a message with incorrect non-mandatory information elements?		O.3	5.8.7.2	[**x**]Yes [ ]No
SC 38	truncate and process non-mandatory information elements which are too long?		N/A 3	5.8.7.2	
SC 39	treat as incorrect non-mandatory information elements which are too long?		M	5.8.7.2	[**x**]Yes [ ]No
SC 40	truncate and process a Call identity information element too long?		N/A 3	5.8.7.2	
	Data link reset				
SC 41	clear calls in overlap sending/receiving?		M	5.8.8 (a)	[**x**]Yes [ ]No
SC 42	maintain calls in the establishment phase and in Active state?		M	5.8.8 (c)	[**x**]Yes [ ]No

	Data link failure				
SC 43	clear all calls not in the Active state?		M	5.8.9 (a)	[**x**]Yes [ ]No
SC 44	proceed to layer 2 re-establishment?		M	5.8.9 (b)	[**x**]Yes [ ]No
SC 45	transmit either a STATUS ENQUIRY or a STATUS message when layer 2 is re-established?		M	5.8.9 (b)	[**x**]Yes [ ]No
SC 46	clear all calls in the Active state if layer 2 fails to be re-established?		M	5.8.9 (b)	[**x**]Yes [ ]No
	Status enquiry procedure				
SC 47	retransmit STATUS ENQUIRY message a number of times up to a limit?	MC 7.2 NOT MC 7.2	O N/A	5.8.10	[**x**]Yes [ ]No
SC 48	clear call if the limit of SC 47 is reached?	SC 47 NOT SC 47	M N/A	5.8.10	[**x**]Yes [ ]No
O.1	SC 19 and SC 20	Support of one at least of these options is required			
O.2	SC 23 and SC 24	Support of one, and only one, of these options is required			
O.3	SC 36 and SC 37	Support of at least one of these options is required.			

Comments:

6.5.3 Call states

Table 3: Call states

Item	Call state Does the implementation support ...	Conditions for status the	Status	Reference	Support
CS 1	Null state (N0)?		M	2.1.2.1	[**x**]Yes [ ]No
CS 2	Call Initiated state (N1)?		M	2.1.2.2	[**x**]Yes [ ]No
CS 3	Overlap Sending state (N2)?		M	2.1.2.3	[**x**]Yes [ ]No
CS 4	Outgoing Call Proceeding state (N3)?		M	2.1.2.4	[**x**]Yes [ ]No
CS 5	Call Delivered state (N4)?		M	2.1.2.5	[**x**]Yes [ ]No
CS 6	Call Present state (N6)?		M	2.1.2.6	[**x**]Yes [ ]No
CS 7	Call Received state (N7)?		M	2.1.2.7	[**x**]Yes [ ]No
CS 8	Connect Request state (N8)?		M	2.1.2.8	[**x**]Yes [ ]No
CS 9	Incoming Call Proceeding state (N9)?		M	2.1.2.9	[**x**]Yes [ ]No
CS 10	Active state (N10)?		M	2.1.2.10	[**x**]Yes [ ]No
CS 11	Disconnect Request state (N11)?		M	2.1.2.11	[**x**]Yes [ ]No
CS 12	Disconnect Indication state (N12)?		M	2.1.2.12	[**x**]Yes [ ]No
CS 13	Suspend Request state (N15)?		N/A 3	2.1.2.13	
CS 14	Resume Request state (N17)?		N/A 3	2.1.2.14	
CS 15	Release Request state (N19)?		M	2.1.2.15	[**x**]Yes [ ]No
CS 16	Call Abort state (N22)?		N/A 2	2.1.2.16	
CS 17	Overlap Receiving state (N25)?	MC 2.2 NOT MC 2.2	M N/A	2.1.2.17	[**x**]Yes [ ]No
CS 18	Null state (Rest 0)?		M	2.4.1.1	[**x**]Yes [ ]No
CS 19	Restart Request state (Rest 1)?		M	2.4.1.2	[**x**]Yes [ ]No
CS 20	Restart state (Rest 2)?		M	2.4.1.3	[**x**]Yes [ ]No

Comments:

6.5.4 Supported messages

6.5.4.1 User to network (received by the network)

For the purposes of this subclause, "interpretation" means that the message type is recognized and acted upon to the extent required by ETS 300 102-1 [1].

Table 4: Supported messages, user to network (received by the network)

Item	Message Does the implementation support the interpretation of...	Conditions for status	Status	Reference	Support
MR 1	ALERTING?		M	3.1.1, 5.1.7	[x]Yes [ ]No
MR 2	CALL PROCEEDING?		M	3.1.2, 5.1.5	[x]Yes [ ]No
MR 3	CONGESTION CONTROL?		N/A 3 (note)	3.1.3, 7.1.5.7	
MR 4	CONNECT?		M	3.1.4, 5.1.8	[x]Yes [ ]No
MR 5	CONNECT ACKNOWLEDGE?		M	3.1.5, 5.2.8	[x]Yes [ ]No
MR 6	DISCONNECT?		M	3.1.6, 5.3.4	[x]Yes [ ]No
MR 7	FACILITY?		N/A 3	3.1.7	
MR 8	INFORMATION?		M	3.1.8, 5.2.4	[x]Yes [ ]No
MR 9	NOTIFY?		O	3.1.9, 5.9	[x]Yes [ ]No
MR 10	PROGRESS?		M	3.1.10, 5.2.6, 5.4, annex N	[x]Yes [ ]No
MR 11	RELEASE?	M	3.1.11, 5.3	[x]Yes [ ]No	MR 12
	RELEASE COMPLETE?	M	3.1.12, 5.3	[x]Yes [ ]No	MR 13
	RESTART?	MC 5 NOT MC 5	M N/A	3.4.1, 5.5.2	[x]Yes [ ]No
MR 14	RESTART ACKNOWLEDGE?	MC 5 NOT MC 5	M N/A	3.4.2, 5.5.1	[x]Yes [ ]No
MR 15	RESUME?		N/A 3	3.1.13, 5.6	
MR 16	RESUME ACKNOWLEDGE?		N/A 1	3.1.14, 5.6.4	
MR 17	RESUME REJECT?		N/A 1	3.1.15, 5.6.5	
MR 18	SEGMENT?	MC 13 NOT MC 13	M N/A	annex K	[x]Yes [ ]No
MR 19	SETUP?	M	3.1.16, 5.2	1	[x]Yes [ ]No
MR 20	SETUP ACKNOWLEDGE?	MC 2.2 NOT MC 2.2	M N/A	3.1.17, 5.1.3	[x]Yes [ ]No
MR 21	STATUS?		M	3.1.18, 3.4.3, 5.8.11	[x]Yes [ ]No
MR 22	STATUS ENQUIRY?		M	3.1.19, 5.8.10	[x]Yes [ ]No
MR 23	SUSPEND?		N/A 3	3.1.20, 5.6	
MR 24	SUSPEND ACKNOWLEDGE?		N/A 1	3.1.21, 5.6.2	
MR 25	SUSPEND REJECT?		N/A 1	3.1.22, 5.6.3	
MR 26	USER INFORMATION?		N/A 3 (note)	3.1.23, 7.1.4, 7.1.5	
NOTE:	These capabilities appear in the PICS proforma for UUS supplementary service. The designation of not applicable to ETSI networks is therefore only in the context of basic call control.				

Comments:

6.5.4.2 Network to user (transmitted by the network)

Table 5: Supported messages, network to user (transmitted by the network)

Item	Message Does the implementation support the inclusion of...	Conditions for status	Status	Reference	Support
MT 1	ALERTING?		M	3.1.1, 5.2.5.2	[x]Yes [ ]No
MT 2	CALL PROCEEDING?		M	3.1.2, 5.2.5.2	[x]Yes [ ]No
MT 3	CONGESTION CONTROL?		N/A 3 (note)	3.1.3, 7.1.5.7	
MT 4	CONNECT?		M	3.1.4, 5.2.7	[x]Yes [ ]No
MT 5	CONNECT ACKNOWLEDGE?		M	3.1.5, 5.1.8	[x]Yes [ ]No
MT 6	DISCONNECT?		M	3.1.6, 5.3.3	[x]Yes [ ]No
MT 7	FACILITY?		N/A 3	3.1.7	
MT 8	INFORMATION?	MC 2.2 NOT MC 2.2	M O	3.1.8, 5.1.3	[x]Yes [ ]No
MT 9	NOTIFY?		O	3.1.9, 5.9	[x]Yes [ ]No
MT 10	PROGRESS?		M	3.1.10, 5.1.6	[x]Yes [ ]No
MT 11	RELEASE?		M	3.1.11, 5.3	[x]Yes [ ]No
MT 12	RELEASE COMPLETE?		M	3.1.12, 5.3	[x]Yes [ ]No
MT 13	RESTART?		M	3.4.1, 5.5	[x]Yes [ ]No
MT 14	RESTART ACKNOWLEDGE?		M	3.4.2, 5.5	[x]Yes [ ]No
MT 15	RESUME?		N/A 1	3.1.13, 5.6.4	
MT 16	RESUME ACKNOWLEDGE?		N/A 3	3.1.14, 5.6	
MT 17	RESUME REJECT?		N/A 3	3.1.15, 5.6	
MT 18	SEGMENT?	MC 13 NOT MC 13	M N/A	annex K	[x]Yes [ ]No
MT 19	SETUP?		M	3.1.16, 5.1.1	[x]Yes [ ]No
MT 20	SETUP ACKNOWLEDGE?		M	3.1.17, 5.2.4	[x]Yes [ ]No
MT 21	STATUS?		M	3.1.18, 3.4.3, 5.8.11	[x]Yes [ ]No
MT 22	STATUS ENQUIRY?	MC 7.2 NOT MC 7.2	M N/A	3.1.19, 5.8.10	[x]Yes [ ]No
MT 23	SUSPEND?		N/A 1	3.1.20, 5.6.1	[x]Yes [ ]No
MT 24	SUSPEND ACKNOWLEDGE?		N/A 3	3.1.21, 5.6	
MT 25	SUSPEND REJECT?		N/A 3	3.1.22, 5.6	
MT 26	USER INFORMATION?		N/A 3 (note)	3.1.23, 7.1.4, 7.1.5	

NOTE: These capabilities appear in the PICS proforma for UUS supplementary service. The designation of not applicable to ETSI networks is therefore only in the context of basic call control.

Comments:

6.5.5 Information elements

6.5.5.1 User to network (received by the network)

For the purposes of this subclause, "interpretation" means that the contents of the information element are recognized and acted upon to the extent required by ETS 300 102-1 [1].

Table 6: Information elements, user to network (received by the network)

Item	Information element Does the implementation support the interpretation of...	Conditions for status	Status	Reference	Support
IER 1	Bearer capability?		M	4.5.5	[x]Yes [ ]No
IER 2	Call identity?		N/A 3	4.5.6, 5.6	
IER 3	Call state?		M	4.5.7	[x]Yes [ ]No
IER 4	Called party number?		M	4.5.8	[x]Yes [ ]No
IER 5	Called party subaddress?		M	4.5.9	[x]Yes [ ]No
IER 6	Calling party number?		M	4.5.10	[x]Yes [ ]No
IER 7	Calling party subaddress?		M	4.5.11	[x]Yes [ ]No
IER 8	Cause?		M	4.5.12	[x]Yes [ ]No
IER 9	Channel identification?		M	4.5.13	[x]Yes [ ]No
IER 10	Congestion level?		N/A 3 (note)	4.5.14	
IER 11	Date/time?		N/A 1	4.6.1	
IER 12	Display?		N/A 1	4.5.15	
IER 13	Facility?		N/A 3	4.6.2	
IER 14	High layer compatibility?		O	4.5.16	[x]Yes [ ]No
IER 15	Keypad facility?		O	4.5.17	[x]Yes [ ]No
IER 16	Low layer compatibility?		N/A 2	4.5.18	
IER 17	More data?		N/A 2	4.5.19	
IER 18	Network specific facilities?	MC 9 NOT MC 9	M N/A	4.5.20	[ ]Yes [x]No
IER 19	Notification indicator?		O	4.5.21	[x]Yes [ ]No
IER 20	Progress indicator?		M	4.5.22	[x]Yes [ ]No
IER 21	Repeat indicator?		N/A 3	4.5.23	
IER 22	Restart indicator?		M	4.5.24	[x]Yes [ ]No
IER 23	Segmented message?	MC 13 NOT MC 13	M N/A	4.5.25	[x]Yes [ ]No
IER 24	Sending complete?		M	4.5.26, 5.1.1	[x]Yes [ ]No
IER 25	Shift?		M	4.5.3, 4.5.4	[x]Yes [ ]No
IER 26	Signal?		N/A 1	4.5.27, 7.1.2	
IER 27	Transit network selection?	MC 1.4 NOT MC 1.4	M N/A	4.5.28	[ ]Yes [x]No
IER 28	User-user?		N/A 3 (note)	4.5.29	

NOTE: These capabilities appear in the PICS proforma for UUS supplementary service. The designation of not applicable to ETSI networks is therefore only in the context of basic call control.

Comments:

6.5.5.2 Network to user (transmitted by the network)

Table 7: Information elements, network to user (transmitted by the network)

Item	Information element Does the implementation support the inclusion of...	Conditions for status	Status	Reference	Support
IET 1	Bearer capability?		M	4.5.5	[x]Yes [ ]No
IET 2	Call identity?		N/A 2	4.5.6, 5.6	[x]Yes [ ]No
IET 3	Call state?		M	4.5.7	[x]Yes [ ]No
IET 4	Called party number?		M	4.5.8	[x]Yes [ ]No
IET 5	Called party subaddress?		M	4.5.9	[x]Yes [ ]No
IET 6	Calling party number?		M	4.5.10	[x]Yes [ ]No
IET 7	Calling party subaddress?		M	4.5.11	[x]Yes [ ]No
IET 8	Cause?		M	4.5.12	[x]Yes [ ]No
IET 9	Channel identification?		M	4.5.13	[x]Yes [ ]No
IET 10	Congestion level?		N/A 3 (note)	4.5.14, 7.1.5.7	
IET 11	Date/time?		O	4.6.1	[x]Yes [ ]No
IET 12	Display?		O	4.5.15	[x]Yes [ ]No
IET 13	Facility?		N/A 3	4.6.2	
IET 14	High layer compatibility?		N/A 2	4.5.16	
IET 15	Keypad facility?		O	4.5.17	[x]Yes [ ]No
IET 16	Low layer compatibility?		O	4.5.18, 3.1.4	[x]Yes [ ]No
IET 17	More data?		N/A 2	4.5.19	
IET 18	Network specific facilities?	MC 9 NOT MC 9	M N/A	4.5.20	[ ]Yes [x]No
IET 19	Notification indicator?		O	4.5.21	[x]Yes [ ]No
IET 20	Progress indicator?		M	4.5.22	[x]Yes [ ]No
IET 21	Repeat indicator?		N/A 3	4.5.23	
IET 22	Restart indicator?	M	4.5.24	[x]Yes [ ]No	IET 23
	Segmented message?	MC 13 NOT MC 13	M N/A	4.5.25	[x]Yes [ ]No
IET 24	Sending complete?		O	4.5.26, 5.2.4	[x]Yes [ ]No
IET 25	Shift?		O	4.5.3, 4.5.4	[x]Yes [ ]No
IET 26	Signal?		O	4.5.27	[ ]Yes [x]No
IET 27	Transit network selection?		N/A 1	4.5.28	
IET 28	User-user?		N/A 3 (note)	4.5.29	

NOTE: These capabilities appear in the PICS proforma for UUS supplementary service. The designation of not applicable to ETSI networks is therefore only in the context of basic call control.

Comments:

6.5.6 Timers

Table 8: Timers

Item	Timer Does the implementation support...	Conditions for status	Status	Reference	Support
TM 1	T301?		M (note 1)	Table 9.1	[**x**]Yes [ ]No
TM 2	T302?	M	Table 9.1	[**x**]Yes [ ]No TM 3	
	T303?	M	Table 9.1	[**x**]Yes [ ]No TM 4	
	T304?	MC 2.2 NOT MC 2.2	O N/A	Table 9.1	[**x**]Yes [ ]No
TM 5	T305?	M	Table 9.1	[**x**]Yes [ ]No TM 6	
	T306?	MC 1.5 NOT MC 1.5	M N/A	Table 9.1	[**x**]Yes [ ]No
TM 7	T307?		N/A 3	Table 9.1	
TM 8	T308?		M	Table 9.1	[**x**]Yes [ ]No
TM 9	T309?		M	Table 9.1	[**x**]Yes [ ]No (Note 2)
TM 10	T310?		M	Table 9.1	[**x**]Yes [ ]No
TM 11	T312?		M	Table 9.1	[**x**]Yes [ ]No
TM 12	T313?		N/A 2	Table 9.1	
TM 13	T314?	MC 13 NOT MC 13	M N/A	Table 9.1	[**x**]Yes [ ]No
TM 14	T316?	MC 5 NOT MC 5	M N/A	Table 9.1	[**x**]Yes [ ]No
TM 15	T317?	MC 5 NOT MC 5	M N/A	Table 9.1	[**x**]Yes [ ]No
TM 16	T318?		N/A 2	Table 9.1	
TM 17	T319?		N/A 2	Table 9.1	
TM 18	T321?		N/A 3	Table 9.1	
TM 19	T322?	MC 7.2 NOT MC 7.2	M N/A	Table 9.1	[**x**]Yes [ ]No
Note 1	Timer T301 is not used if the network has already applied an internal alerting supervision timing function.				
Note 2	Timer T302 is split into two timers, one long (PEOS) and one short (PEAM) timer. Short timing is applicable when the number of received B-digits is greater than or equal to the minimum required digits and less than the maximum requred digits. If the number of received B-digits is less than the minimum required digits then long timing is applicable. The short timer is currently set to 6 seconds and the long timer to 15 seconds.				

Comments:

6.6 Additional information for interoperability

6.6.1 Information element structure

Table 9: Information element structure

Item	Information element parts Does the information element include...	Status	Values	Support
IS 1	**Bearer capability** (ETS 300 102-1 [1], table 4-6, figure 4-11)			
IS 1.1	Octet 3 bits 6 and 7, coding standard?	M		[**x**]Yes [ ]No
	1. CCITT 2. International 3. National 4. Network	O N/A 3 N/A 3 N/A 3	0 1 2 3	[**x**]Yes [ ]No
IS 1.2	Octet 3 bits 1 to 5, information transfer capability?	M		[**x**]Yes [ ]No
	1. Speech 2. Unrestricted digital 3. Restricted digital 4. 3,1 kHz audio 5. 7 kHz audio 6. Video	O O N/A 3 O O O	0 8 9 16 17 24	[**x**]Yes [ ]No [**x**]Yes [ ]No [**x**]Yes [ ]No [**x**]Yes [ ]No [ ]Yes [**x**]No
IS 1.3	Octet 4 bits 6 and 7, transfer mode?	M		[**x**]Yes [ ]No
	1. Circuit	O	0	[**x**]Yes [ ]No
IS 1.4	Octet 4 bits 1 to 5, information transfer rate, origination to destination if octet 4b is present, bi-directional otherwise?	M		[**x**]Yes [ ]No
	1. 64 kbit/s 2. 2 x 64 kbit/s 3. 384 kbit/s 4. 1 536 kbit/s 5. 1 920 kbit/s	O O O O O	16 17 19 21 23	[**x**]Yes [ ]No [ ]Yes [**x**]No [ ]Yes [**x**]No [ ]Yes [**x**]No [ ]Yes [**x**]No
IS 1.5	Octet 4a bits 5 to 7, structure?	O		[ ]Yes [ ]No
	1. Default 2. 8 kHz integrity 3. Service data unit integrity 4. Unstructured	O O O O	0 1 4 7	[ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No
IS 1.6	Octet 4a bits 3 and 4, configuration?	O		[ ]Yes [ ]No
	1. Point-to-point	O	0	[ ]Yes [ ]No
IS 1.7	Octet 4a bits 1 and 2, establishment?	O		[ ]Yes [ ]No
	1. Demand	O	0	[ ]Yes [ ]No
IS 1	**Bearer capability** (ETS 300 102-1 [1], table 4-6, figure 4-11)			
IS 1.8	Octet 4b bits 6 and 7, symmetry?	O		[ ]Yes [ ]No
	1. Bi-directional symmetric	O	0	[ ]Yes [ ]No
IS 1.9	Octet 4b bits 1 to 5, information transfer rate, destination to origination?	O		[ ]Yes [ ]No
	1. 64 kbit/s 2. 2 x 64 kbit/s 3. 384 kbit/s 4. 1 536 kbit/s 5. 1 920 kbit/s	O O O O O	16 17 19 21 23	[ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No
IS 1.10	Octet 5 bits 1 to 5, user information layer 1 protocol?	O		[**x**]Yes [ ]No

Item	Information element parts Does the information element include...	Status	Values	Support
	1. V.110/X.30	O	1	[ ]Yes [ ]No
	2. G.711 µ-law	N/A 3	2	
	3. G.711 A-law	O	3	[**x**]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
	6. G.7xx 384 kbit/s video	O	6	[ ]Yes [ ]No
	7. Non-CCITT rate adaption	O	7	[ ]Yes [ ]No
	8. V.120	N/A 3	8	
	9. X.31 HDLC	O	9	[ ]Yes [ ]No
IS 1.11	Octet 5a bit 7, synchronous/asynchronous?	O		[ ]Yes [ ]No
	1. Synchronous	O	0	[ ]Yes [ ]No
	2. Asynchronous	O	1	[ ]Yes [ ]No
IS 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
IS 1	**Bearer capability** (ETS 300 102-1 [1], table 4-6, figure 4-11)			
IS 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 CCITT V.6 and X.1	O	1	[ ]Yes [ ]No
	3. 1,2 kbit/s CCITT V.6	O	2	[ ]Yes [ ]No
	4. 2,4 kbit/s CCITT V.6 and X.1	O	3	[ ]Yes [ ]No
	5. 3,6 kbit/s CCITT V.6	O	4	[ ]Yes [ ]No
	6. 4,8 kbit/s CCITT V.6 and X.1	O	5	[ ]Yes [ ]No
	7. 7,2 kbit/s CCITT V.6	O	6	[ ]Yes [ ]No
	8. 8 kbit/s CCITT I.460	O	7	[ ]Yes [ ]No
	9. 9,6 kbit/s CCITT V.6 and X.1	O	8	[ ]Yes [ ]No
	10. 14,4 kbit/s CCITT V.6	O	9	[ ]Yes [ ]No
	11. 16 kbit/s CCITT I.460	O	10	[ ]Yes [ ]No
	12. 19,2 kbit/s CCITT V.6	O	11	[ ]Yes [ ]No
	13. 32 kbit/s CCITT I.460	O	12	[ ]Yes [ ]No
	14. 48 kbit/s CCITT V.6 and X.1	O	14	[ ]Yes [ ]No
	15. 56 kbit/s CCITT V.6	O	15	[ ]Yes [ ]No
	16. 64 kbit/s CCITT X.1	O	16	[ ]Yes [ ]No
	17. 0,1345 kbit/s CCITT X.1	O	21	[ ]Yes [ ]No
	18. 0,100 kbit/s CCITT X.1	O	22	[ ]Yes [ ]No
	19. 0,075/1,2 kbit/s CCITT V.6 and X.1	O	23	[ ]Yes [ ]No
	20. 1,2/0,075 kbit/s CCITT V.6 and X.1	O	24	[ ]Yes [ ]No
	21. 0,050 kbit/s CCITT V.6 and X.1	O	25	[ ]Yes [ ]No
	22. 0,075 kbit/s CCITT V.6 and X.1	O	26	[ ]Yes [ ]No
	23. 0,110 kbit/s CCITT V.6 and X.1	O	27	[ ]Yes [ ]No
	24. 0,150 kbit/s CCITT V.6 and X.1	O	28	[ ]Yes [ ]No
	25. 0,200 kbit/s CCITT V.6 and X.1	O	29	[ ]Yes [ ]No
	26. 0,300 kbit/s CCITT V.6 and X.1	O	30	[ ]Yes [ ]No
	27. 12 kbit/s CCITT V.6	O	31	[ ]Yes [ ]No
	Octet 5b, case 1 (note)			

IS 1.14	Octet 5b bits 6 and 7, intermediate rate?	O		[ ]Yes [ ]No
	1. Not used 2. 8 kbit/s 3. 16 kbit/s 4. 32 kbit/s	O O O O	0 1 2 3	[ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No
IS 1.15	Octet 5b bit 5, network independent clock (NIC) on transmission?	O		[ ]Yes [ ]No
	1. Not required to send data with NIC 2. Required to send data with NIC	O O	0 1	[ ]Yes [ ]No [ ]Yes [ ]No
IS 1.16	Octet 5b bit 4, NIC on reception?	O		[ ]Yes [ ]No
	1. Cannot accept data with NIC 2. Can accept data with NIC	O O	0 1	[ ]Yes [ ]No [ ]Yes [ ]No
IS 1	**Bearer capability** (ETS 300 102-1 [1], table 4-6, figure 4-11)			
IS 1.17	Octet 5b bit 3, flow control on transmission?	O		[ ]Yes [ ]No
	1. Not required to send data with flow control 2. Required to send data with flow control	O O	0 1	[ ]Yes [ ]No [ ]Yes [ ]No
IS 1.18	Octet 5b bit 2, flow control on reception?	O		[ ]Yes [ ]No
	1. Cannot accept data with flow control mechanism 2. Can accept data with flow control mechanism	O O	0 1	[ ]Yes [ ]No [ ]Yes [ ]No
	Octet 5b, case 2 (note)			
IS 1.19	Octet 5b bit 7, rate adaption header?	O		[ ]Yes [ ]No
	1. Header not included 2. Header included	O O	0 1	[ ]Yes [ ]No [ ]Yes [ ]No
IS 1.20	Octet 5b bit 6, multiple frame establishment (MFE) support in data link?	O		[ ]Yes [ ]No
	1. MFE not supported, only UI frames allowed 2. MFE supported	O O	0 1	[ ]Yes [ ]No [ ]Yes [ ]No
IS 1.21	Octet 5b bit 5, mode of operation?	O		[ ]Yes [ ]No
	1. Bit transparent mode 2. Protocol sensitive mode	O O	0 1	[ ]Yes [ ]No [ ]Yes [ ]No
IS 1.22	Octet 5b bit 4, logical link identifier (LLI) negotiation?	O		[ ]Yes [ ]No
	1. Default LLI = 256 only 2. Full protocol negotiation	O O	0 1	[ ]Yes [ ]No [ ]Yes [ ]No
IS 1.23	Octet 5b bit 3, assignor/assignee?	O		[ ]Yes [ ]No
	1. Message originator is "default assignee" 2. Message originator is "assignor only"	O O	0 1	[ ]Yes [ ]No [ ]Yes [ ]No
IS 1.24	Octet 5b bit 2, in-band/out-band negotiation?	O		[ ]Yes [ ]No
	1. Negotiation performed with USER INFORMATIONmessages 2. Negotiation performed in-band	O O	0 1	[ ]Yes [ ]No [ ]Yes [ ]No

IS 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	0	3	[ ]Yes [ ]No
IS 1	**Bearer capability** (ETS 300 102-1 [1], table 4-6, figure 4-11)			
IS 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
IS 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	0	[ ]Yes [ ]No
	4. Forced to 0	O	4	[ ]Yes [ ]No
	5. Forced to 1	O	5	[ ]Yes [ ]No
IS 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
IS 1.29	Octet 5d bits 1 to 6, modem type?	O		[ ]Yes [ ]No
	1. V.21	O	33	[ ]Yes [ ]No
	2. V.22	O	34	[ ]Yes [ ]No
	3. V.22 bis	O	35	[ ]Yes [ ]No
	4. V.23	O	36	[ ]Yes [ ]No
	5. V.26	O	37	[ ]Yes [ ]No
	6. V.26 bis	O	38	[ ]Yes [ ]No
	7. V.26 ter	O	39	[ ]Yes [ ]No
	8. V.27	O	40	[ ]Yes [ ]No
	9. V.27 bis	O	41	[ ]Yes [ ]No
	10. V.27 ter	O	42	[ ]Yes [ ]No
	11. V.29	O	43	[ ]Yes [ ]No
	12. V.32	O	44	[ ]Yes [ ]No
IS 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
IS 1.31	Octet 7 bits 1 to 5, user information layer 3 protocol?	O		[ ]Yes [ ]No
	1. Q.931	O	2	[ ]Yes [ ]No
	2. X.25 packet layer	O	6	[ ]Yes [ ]No

IS 2	**Channel identification** (ETS 300 102-1 [1], table 4-15, figure 4-20)			
IS 2.1	Octet 3 bit 7, interface identifier present?	M		[**x**]Yes [ ]No
	1. Interface implicitly identified 2. Interface explicitly identified	M N/A 3	0 1	[**x**]Yes [ ]No
IS 2.2	Octet 3 bit 6, interface type?	M		[**x**]Yes [ ]No
	1. Primary rate interface	O	1	[**x**]Yes [ ]No
IS 2.3	Octet 3 bit 4, preferred/exclusive?	M		[**x**]Yes [ ]No
	1. Indicated channel preferred 2. Exclusive, indicated channel only accepted	O O	0 1	[**x**]Yes [ ]No [**x**]Yes [ ]No
IS 2.4	Octet 3 bit 3, D-channel indicator?	M		[**x**]Yes [ ]No
	1. Channel not the D-channel 2. Channel is the D-channel	O O	0 1	[**x**]Yes [ ]No [**x**]Yes [ ]No
IS 2.5	Octet 3 bits 1 and 2. information channel selection?	M		[**x**]Yes [ ]No
	1. No channel 2. B1 channel 3. B2 channel 4. Any channel	O O O O	0 1 2 3	[**x**]Yes [ ]No [**x**]Yes [ ]No [**x**]Yes [ ]No [**x**]Yes [ ]No
IS 2.6	Octet 3.1, bits 1 to 7, interface identifier?	N/A 3		
IS 2.7	Octet 3.2, bits 6 and 7, coding standard?	M		[**x**]Yes [ ]No
	1. CCITT standardized 2. International 3. National 4. Network	O O O O	0 1 2 3	[**x**]Yes [ ]No [ ]Yes [**x**]No [**x**]Yes [ ]No [ ]Yes [**x**]No
IS 2.8	Octet 3.2, bit 5, number/map?	M		[**x**]Yes [ ]No
	1. Channel is indicated by the number in the following octet 2. Channel is indicated by the slot map	M N/A 3	0 1	[**x**]Yes [ ]No
IS 2.9	Octet 3.2, bits 1 to 4, channel type/map element type	M		[**x**]Yes [ ]No
	1. B-channel units 2. H0-channel units 3. H11-channel units 4. H12-channel units	O O O O	3 6 8 9	[**x**]Yes [ ]No [ ]Yes [**x**]No [ ]Yes [**x**]No [ ]Yes [**x**]No
IS 2.10	Octet 3.3, channel number/slot map	M		[**x**]Yes [ ]No
	1. Channel number 2. Slot map	M N/A 3		[**x**]Yes [ ]No
IS 3	**High layer compatibility** (ETS 300 102-1 [1], table 4-17, figure 4-24)			
IS 3.1	Octet 3 bits 6 and 7, coding standard?	M		[**x**]Yes [ ]No
	1. CCITT standardized 2. International 3. National 4. Network	O O O O	0 1 2 3	[**x**]Yes [ ]No [ ]Yes [**x**]No [**x**]Yes [ ]No [ ]Yes [**x**]No

IS 3.2	Octet 4 bits 1 to 7, HL characteristics?	M		[ ]Yes [ ]No
	1. Telephony	O	1	[**x**]Yes [ ]No
	2.Fax group 2/3 (F.182)	O	4	[**x**]Yes [ ]No
	3. Fax group 4 class 1 (F.184)	O	33	[**x**]Yes [ ]No
	4. Teletex, F.230, Fax group 4, classes II & III (F.184)	O	36	[**x**]Yes [ ]No
	5 Teletex, basic and processable mode (F.220)	O	40	[**x**]Yes [ ]No
	6. Teletex basic mode (F.200)	O	49	[**x**]Yes [ ]No
	7. Syntax based videotex (F.300, T.102)	O	50	[**x**]Yes [ ]No
	8. International videotex interworking via gateways or interworking units (F.300, T.101)	O	51	[ ]Yes [**x**]No
	9. Telex (F.60)	O	53	[ ]Yes [**x**]No
	10. MHS (X.400)	O	56	[ ]Yes [**x**]No
	11. OSI application (X.200)	O	65	[ ]Yes [**x**]No
	12. Maintenance	O	94	[ ]Yes [**x**]No
	13. Management	O	95	[ ]Yes [**x**]No
	14. Audiovisual	O	56	[**x**]Yes [ ]No
IS 3.3	Octet 4a bits 1 to 7, extended HL characteristics?	O		[ ]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, 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
NOTE: Octet 5b case 1 is for V.110/X.30 rate adaption, octet 5b case 2 is for V.120 rate adaption.				

Comments: INFORMATION ELEMENT PARTS ARE TRANSPARENT FOR THE NETWORK SWITCHING SYSTEM (EWSD) IF NOT MARKED OTHERWISE

6. PICS proforma

6.1 Identification of the implementation

6.1.1 Implementation Under Test (IUT) identification

IUT name:

.....

.....

IUT version:

.....

6.1.2 System Under Test (SUT) identification

SUT name:

EWSD .....

.....

Hardware configuration:

.....

.....

.....

Operating system:

V16 BEL.....

6.1.3 Product supplier

Name:

Siemens Atea n.v.

Address:

Atealaan 34
B-2200 Herentals
Belgium

Telephone number:

+32 14 25 21 11

Facsimile number:

+32 14 25 33 33

Additional information:

EWSD V16 BEL

6.1.4 Client

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

Additional information:

.....

.....

.....

6.1.5 PICS contact person

Name:

Telephone number:

Facsimile number:

Additional information:

.....

.....

.....

6.2 PICS/System Conformance Statement (SCS)

Provide the relationship of the PICS with the SCS for the system:

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

6.3 Identification of the protocol

This PICS proforma applies to the following standard:

ETS 300 102-1 (1990): "Integrated Services Digital Network (ISDN); User-network interface layer 3; Specifications for basic call control".

6.4 Global statement of conformance

The implementation described in this PICS meets all the mandatory requirements of the referenced standard.

[**x**] **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.

6.5 Information for conformance testing

6.5.1 Major capabilities

Unless otherwise indicated all references in the tables are to subclauses in ETS 300 102-1 [1].

Table 1: Major capabilities

Item	Major capability Does the implementation...	Conditions for status	Status	Reference	Support
MC 1	support call establishment at the originating interface (outgoing calls from the user's point of view)?		M	5.1	[**x**]Yes [ ]No
MC 1.1	support procedures of en-bloc receiving (sending from the user's point of view)?		M	5.1.1, 5.1.5.1, 5.1.8	[**x**]Yes [ ]No
MC 1.2	support procedures of overlap receiving (sending from the user's point of view)?		M	5.1.3, 5.1.5.2, 5.1.8	[**x**]Yes [ ]No
MC 1.3	interpret notification of interworking received from the calling user?		M	5.1.6	[**x**]Yes [ ]No
MC 1.4	support transit network selection?		O	5.1.10, annex C	[ ]Yes [**x**]No
MC 1.5	provide in-band information and in-band tones/announcements?		O	5.1.2, 5.1.3, 5.1.7, 5.3.4.1, 5.4	[**x**]Yes [ ]No
MC 1.6	send notification of interworking from the called user or network to the calling user?		M	5.1.6	[**x**]Yes [ ]No
MC 2	support call establishment at the destination interface (incoming calls from the user's point of view)?		M	5.2	[**x**]Yes [ ]No
MC 2.1	support procedures of en-bloc sending (receiving from the user's point of view)?		O.1	5.2.1, 5.2.5.1	[**x**]Yes [ ]No
MC 2.2	support procedures of overlap sending (receiving from the user's point of view)?		O.1	5.2.1, 5.2.4	[**x**]Yes [ ]No
MC 2.3	send notification of interworking received from the calling user or network?		M	5.2.6	[**x**]Yes [ ]No
MC 2.4	support delivery of the SETUP message to the called user on the point-to-point data link?		O.2	5.2.1, 5.2.3.1	[**x**]Yes [ ]No
MC 2.5	support delivery of the SETUP message to the called user on the broadcast data link?		O.2	5.2.1, 5.2.3.2	[**x**]Yes [ ]No
MC 2.6	send notification of interworking at the destination interface to the calling user?		M	5.2.6	[**x**]Yes [ ]No

MC 3	accept user-initiated call clearing?		M	5.3.3	[**x**]Yes [ ]No
MC 4.1	support call clearing initiated by the network with tones/announcements provided?	MC 1.5 NOT MC 1.5	M N/A	5.3.4.1	[**x**]Yes [ ]No
MC 4.2	support call clearing initiated by the network with tones/announcements not provided?		M	5.3.4.2	[**x**]Yes [ ]No
MC 5	support the restart procedure?		see note 1	5.5	[**x**]Yes [ ]No
					[**x**]Yes [ ]No
MC 6	support call rearrangement procedures?		O	5.6	[**x**]Yes [ ]No
MC 7.1	support response to Status enquiry message?		M	5.8.10	[**x**]Yes [ ]No
MC 7.2	support sending of Status enquiry message?		O	5.8.10	[**x**]Yes [ ]No
MC 8	support symmetric call operation?		N/A 3	annex D	
MC 9	support network specific facility selection?		O	annex E	[ ]Yes [**x**]No
MC 10	support Low layer compatibility information element negotiation?		N/A 2	annex M	
MC 11.1	support user-to-user signalling during the set-up and clearing phases of a call (service 1)?		N/A 3 (note 2)	7.1.1, 7.1.3	
MC 11.2	support user-to-user signalling during call establishment (service 2)?		N/A 3 (note 2)	7.1.1, 7.1.4	
MC 11.3	support user-to-user signalling in the Active state of a call (service 3)?		N/A 3 (note 2)	7.1.1, 7.1.5	
MC 12	support procedures for establishment of bearer connection prior to call acceptance?		O	annex N	[ ]Yes [**x**]No
MC 13	support message segmentation procedures?		O	annex K	[**x**]Yes [ ]No
MC 14	D-channel back-up procedure?		N/A 2	annex F	
MC 15	support procedures for bearer service change?		N/A 3	annex O	

O.1	MC 2.1 and MC 2.2	Support of at least one of these options is required.
O.2	MC 2.4 and MC 2.5	Support of at least one of these options is required.
NOTE 1:	If point-to-point configuration then Status = Mandatory, otherwise Status = Optional	
NOTE 2:	These capabilities appear in the PICS proforma for UUS supplementary service. The designation of not applicable to ETSI networks is therefore only in the context of basic call control.	

Comments:

6.5.2 Subsidiary capabilities

Table 2: Subsidiary capabilities

Item	Subsidiary capability Does the implementation...	Conditions for status	Status	Reference	Support
	Call procedures				
SC 1	include the Sending complete information element in the SETUP message to the called user?		O	5.2.1, 5.2.4	[**x**]Yes [ ]No
SC 2	support the indication "no B-channel available" in the SETUP message to the called user?		O	5.2.3.1	[**x**]Yes [ ]No
SC 3	use a 1 octet call reference value in an outgoing SETUP message?		M	4.3	[**x**]Yes [ ]No
SC 4.1	accept only one SETUP ACKNOWLEDGE message from the called user on point-to-point data link?	MC 2.2 NOT MC 2.2	M N/A	5.2.4	[**x**]Yes [ ]No
SC 4.2	accept up to 8 SETUP ACKNOWLEDGE messages from the called user on broadcast data link?	MC 2.2 AND MC 2.5 NOT MC 2.2 OR NOT MC 2.5	O N/A	5.2.4	[**x**]Yes [ ]No
SC 5	clear subsequent responding users after the first SETUP ACKNOWLEDGE message on broadcast data link?	MC 2.5 NOT MC 2.5	O N/A	5.2.4	[ ]Yes [**x**]No
SC 6	clear non-selected users on broadcast data link?	MC 2.5 NOT MC 2.5	M N/A	5.2.9	[**x**]Yes [ ]No
SC 7	support priority to incoming call (form the user's point of view) on call collision?		M	5.7	[**x**]Yes [ ]No
SC 8	check calling side compatibility?		M	5.1.5, annex B.2	[**x**]Yes [ ]No
	General errors				
SC 9	ignore a received message with protocol discriminator error?		M	5.8.1	[**x**]Yes [ ]No
SC 10	ignore a received message too short to contain a complete information element?		M	5.8.2	[**x**]Yes [ ]No
	Call reference errors				
SC 11	ignore a received message with Call reference octet 1 bits 5 to 8 not equal to 0?		M	5.8.3.1	[**x**]Yes [ ]No
SC 12.1	ignore a received message if the Call reference information element octet 1, bits 1 through 4 indicate a length greater than the maximum length supported?		M	5.8.3.1	[**x**]Yes [ ]No
SC 12.2	ignore a received message related to basic call containing the dummy Call reference value?		M	5.8.3.1	[**x**]Yes [ ]No

SC 12.3 SC 12.3.1 SC 12.3.2 SC 12.3.3	ignore a Call reference information element of a length other than those supported? Specifically: greater than 1? less than 2? greater than 2?		 O N/A 2 O	5.8.3.1	 [ ]Yes [**x**]No [ ]Yes [**x**]No
SC 13	clear call on receiving any message other than SETUP, RELEASE, RELEASE COMPLETE, STATUS, RESUME, with unrecognizable Call reference value?		M	5.8.3.2 (a)	[**x**]Yes [ ]No
SC 14	transmit a RELEASE COMPLETE message on receiving a RELEASE message with unrecognizable Call reference value?		M	5.8.3.2 (b)	[**x**]Yes [ ]No
SC 15	take no action on receiving a RELEASE COMPLETE message with unrecognizable Call reference value?		M	5.8.3.2 (c)	[**x**]Yes [ ]No
SC 16	ignore a received SETUP or RESUME message with unrecognizable Call reference value or with a Call reference flag incorrectly set to "1"?		M	5.8.3.2 (d)	[**x**]Yes [ ]No
SC 17	ignore a SETUP message containing a Call reference value relating to an existing call?		M	5.8.3.2 (e)	[**x**]Yes [ ]No
SC 18	transmit a STATUS message on receiving any message other than RESTART, RESTART ACKNOWLEDGE, STATUS, with global Call reference value?		M	5.8.3.2 (f)	[**x**]Yes [ ]No
	Message type, message sequence errors				
SC 19	transmit a STATUS message on receipt of an unexpected message other than RELEASE, RELEASE COMPLETE or of an unrecognizable message in any other state than the Null state?		O.1	5.8.4	[**x**]Yes [ ]No
SC 20	initiate status enquiry procedures on receipt of an unexpected message other than RELEASE, RELEASE COMPLETE or of an unrecognizable message in any other state than the Null state?		O.1	5.8.4, 5.8.10	[ ]Yes [**x**]No
SC 21	clear call on receipt of an unexpected RELEASE, RELEASE COMPLETE message?		M	5.8.4	[**x**]Yes [ ]No

	General information element errors				
SC 22	support general information element error procedures in codesets other than 0?		M	5.8.5	[**x**]Yes [ ]No
SC 23	process information elements regardless of their order in the message?		O.2	5.8.5.1	[ ]Yes [**x**]No
SC 24	ignore out of sequence information elements?		O.2	5.8.5.1	[**x**]Yes [ ]No
SC 25	ignore not permitted repetitions of an information element?		M	5.8.5.2	[**x**]Yes [ ]No
SC 26	handle permitted repetitions (up to a limit) of an information element?		M	5.8.5.2	[**x**]Yes [ ]No
	Mandatory information element errors				
SC 27	take no action, except for the sending of a STATUS message, on receipt of a message other than SETUP, DISCONNECT, RELEASE, RELEASE COMPLETE, - with mandatory information elements missing or - with mandatory information elements having invalid content or - with unrecognized information elements encoded to indicate "comprehension required"?		M	5.8.6.1, 5.8.6.2, 5.8.7.1	[**x**]Yes [ ]No
SC 28	return a RELEASE COMPLETE message, on receipt of a SETUP or RELEASE message, - with mandatory information elements missing or - with mandatory information elements having invalid content or - with unrecognized information elements encoded to indicate "comprehension required"?		M	5.8.6.1, 5.8.6.2, 5.8.7.1	[**x**]Yes [ ]No
SC 29	clear the call on receipt of a DISCONNECT message, - with the Cause information element missing or - with mandatory information elements missing or - with mandatory information elements having invalid content or - with unrecognized information elements encoded to indicate "comprehension required"?		M	5.8.6.1, 5.8.6.2, 5.8.7.1	[**x**]Yes [ ]No

SC 30	handle a RELEASE COMPLETE message as normal even if it, - has the Cause information element missing or - has mandatory information elements missing or - has mandatory information elements with invalid content or - has unrecognized information elements encoded to indicate "comprehension required"?		M	5.8.6.1, 5.8.6.2, 5.8.7.1	[**x**]Yes [ ]No
SC 31	treat information elements with length exceeding the maximum as with invalid content?		M	5.8.6.2	[**x**]Yes [ ]No
	Non-mandatory information element errors				
SC 32	transmit a STATUS message on receipt of a message other than DISCONNECT, RELEASE, RELEASE COMPLETE, with unrecognized non-mandatory information elements not encoded to indicate "comprehension required"?		M	5.8.7.1	[**x**]Yes [ ]No
SC 33	transmit a RELEASE message on receipt of a DISCONNECT message with unrecognized non-mandatory information elements?		M	5.8.7.1	[**x**]Yes [ ]No
SC 34	transmit a RELEASE COMPLETE message on receipt of a RELEASE message with unrecognized non-mandatory information elements?		M	5.8.7.1	[**x**]Yes [ ]No
SC 35	take no action on the unrecognized information on receipt of a RELEASE COMPLETE message with unrecognized non-mandatory information elements?		M	5.8.7.1	[**x**]Yes [ ]No
SC 36	ignore incorrect or unrecognizable non-mandatory information elements?		O.3	5.8.7.2	[ ]Yes [**x**]No
SC 37	transmit a STATUS message on receipt of a message with incorrect non-mandatory information elements?		O.3	5.8.7.2	[**x**]Yes [ ]No
SC 38	truncate and process non-mandatory information elements which are too long?		N/A 3	5.8.7.2	
SC 39	treat as incorrect non-mandatory information elements which are too long?		M	5.8.7.2	[**x**]Yes [ ]No
SC 40	truncate and process a Call identity information element too long?	MC 6 NOT MC 6	M N/A	5.8.7.2	[**x**]Yes [ ]No

	Data link reset				
SC 41	clear calls in overlap sending/receiving?		M	5.8.8 (a)	[**x**]Yes [ ]No
SC 42	maintain calls in the establishment phase and in Active, Suspend Request and Resume Request states?		M	5.8.8 (c)	[**x**]Yes [ ]No
	Data link failure				
SC 43	clear all calls not in the active state?		M	5.8.9 (a)	[**x**]Yes [ ]No
SC 44	proceed to layer 2 re-establishment?		M	5.8.9 (b)	[**x**]Yes [ ]No
SC 45	transmit either a STATUS ENQUIRY or a STATUS message when layer 2 is re-established?		M	5.8.9 (b)	[**x**]Yes [ ]No
SC 46	clear all calls in the Active state if layer 2 fails to be re-established?		M	5.8.9 (b)	[**x**]Yes [ ]No
	Status enquiry procedure				
SC 47	retransmit STATUS ENQUIRY message a number of times up to a limit?	MC 7.2 NOT MC 7.2	O N/A	5.8.10	[**x**]Yes [ ]No
SC 48	clear call if the limit of SC 47 is reached?	SC 47 NOT SC 47	M N/A	5.8.10	[**x**]Yes [ ]No

O.1	SC 19 and SC 20	Support of one at least of these options is required.
O.2	SC 23 and SC 24	Support of one, and only one, of these options is required.
O.3	SC 36 and SC 37	Support of at least one of these options is required.

Comments:

6.5.3 Call states

Table 3: Call states

Item	Call state Does the implementation support for status the ...	Conditions	Status	Reference	Support
CS 1	Null state (N0)?		M	2.1.2.1	[**x**]Yes [ ]No
CS 2	Call Initiated state (N1)?		M	2.1.2.2	[**x**]Yes [ ]No
CS 3	Overlap Sending state (N2)?		M	2.1.2.3	[**x**]Yes [ ]No
CS 4	Outgoing Call Proceeding state		M	2.1.2.4	[**x**]Yes [ ]No
CS 5	(N3)? Call Delivered state (N4)?		M	2.1.2.5	[**x**]Yes [ ]No
CS 6	Call Present state (N6)?		M	2.1.2.6	[**x**]Yes [ ]No
CS 7	Call Received state (N7)?		M	2.1.2.7	[**x**]Yes [ ]No
CS 8	Connect Request state (N8)?		M	2.1.2.8	[**x**]Yes [ ]No
CS 9	Incoming Call Proceeding state		M	2.1.2.9	[**x**]Yes [ ]No
CS 10	(N9)? Active state (N10)?		M	2.1.2.10	[**x**]Yes [ ]No
CS 11	Disconnect Request state (N11)?		M	2.1.2.11	[**x**]Yes [ ]No
CS 12	Disconnect Indication state (N12)?		M	2.1.2.12	[**x**]Yes [ ]No
CS 13	Suspend Request state (N15)?	MC 6	M	2.1.2.13	[**x**]Yes [ ]No
CS 14	Resume Request state (N17)?	NOT MC 6 MC 6	N/A M	2.1.2.14	[**x**]Yes [ ]No
CS 15	Release Request state (N19)?	NOT MC 6 M	N/A 2.1.2.15	[**x**]Yes [ ]No	CS 16 Call
Abort state (N22)?		M	2.1.2.16	[**x**]Yes [ ]No	CS 17 Overlap
Receiving state (N25)?		MC 2.2	M	2.1.2.17	[**x**]Yes [ ]No
CS 18	Null state (Rest 0)?	NOT MC 2.2 MC 5	N/A M	2.4.1.1	[**x**]Yes [ ]No
CS 19	Restart Request state (Rest 1)?	NOT MC 5 MC 5	N/A M	2.4.1.2	[**x**]Yes [ ]No
CS 20	Restart state (Rest 2)?	NOT MC 5 MC 5	N/A M	2.4.1.3	[**x**]Yes [ ]No
		NOT MC 5	N/A		

Comments:

6.5.4 Supported messages

6.5.4.1 User to network (received by the network)

For the purposes of this subclause, "interpretation" means that the message type is recognized and acted upon to the extent required by ETS 300 102-1 [1].

Table 4: Supported messages, user to network (received by the network)

Item	Message Does the implementation support for status the interpretation of...	Conditions	Status	Reference	Support
MR 1	ALERTING?		M	3.1.1, 5.1.7	[x]Yes [ ]No
MR 2	CALL PROCEEDING?		M	3.1.2, 5.1.5	[x]Yes [ ]No
MR 3	CONGESTION CONTROL?		N/A 3 (note)	3.1.3, 7.1.5.7	
MR 4	CONNECT?		M	3.1.4, 5.1.8	[x]Yes [ ]No
MR 5	CONNECT ACKNOWLEDGE?		M	3.1.5, 5.2.8	[x]Yes [ ]No
MR 6	DISCONNECT?		M	3.1.6, 5.3.4	[x]Yes [ ]No
MR 7	FACILITY?		N/A 3	3.1.7	
MR 8	INFORMATION?		M	3.1.8, 5.2.4	[x]Yes [ ]No
MR 9	NOTIFY?		O	3.1.9, 5.9	[x]Yes [ ]No
MR 10	PROGRESS?		M	3.1.10, 5.1.6, 5.2.6, 5.4, annex N	[x]Yes [ ]No
MR 11	RELEASE?	M	3.1.11, 5.3	[x]Yes [ ]No	MR 12
	RELEASE COMPLETE?	M	3.1.12, 5.3	[x]Yes [ ]No	MR 13
	RESTART?	MC 5 NOT MC 5	M N/A	3.4.1, 5.5.2	[x]Yes [ ]No
MR 14	RESTART ACKNOWLEDGE?	MC 5 NOT MC 5	M N/A	3.4.2, 5.5.1	[x]Yes [ ]No
MR 15	RESUME?	MC 6 NOT MC 6	M N/A	3.1.13, 5.6.4	[x]Yes [ ]No
MR 16	RESUME ACKNOWLEDGE?		N/A 1	3.1.14, 5.6.4	
MR 17	RESUME REJECT?		N/A 1	3.1.15, 5.6.5	
MR 18	SEGMENT?	MC 13 NOT MC 13	M N/A	annex K	[x]Yes [ ]No
MR 19	SETUP?	M	3.1.16, 5.2.1		[x]Yes [ ]No
MR 20	SETUP ACKNOWLEDGE?	MC 2.2 NOT MC 2.2	M N/A	3.1.17, 5.1.3	[x]Yes [ ]No
MR 21	STATUS?		M	3.1.18, 3.4.3, 5.8.11	[x]Yes [ ]No
MR 22	STATUS ENQUIRY?		M	3.1.19, 5.8.10	[x]Yes [ ]No
MR 23	SUSPEND?	MC 6 NOT MC 6	M N/A	3.1.20, 5.6.1	[x]Yes [ ]No
MR 24	SUSPEND ACKNOWLEDGE?		N/A 1	3.1.21, 5.6.2	
MR 25	SUSPEND REJECT?		N/A 1	3.1.22, 5.6.3	
MR 26	USER INFORMATION?		N/A 3 (note)	3.1.23, 7.1.4, 7.1.5	

NOTE: These capabilities appear in the PICS proforma for UUS supplementary service. The designation of not applicable to ETSI networks is therefore only in the context of basic call control.

Comments:

6.5.4.2 Network to user (transmitted by the network)

Table 5: Supported messages, network to user (transmitted by the network)

Item	Message Does the implementation support the inclusion of...	Conditions for status	Status	Reference	Support
MT 1	ALERTING?		M	3.1.1, 5.2.5.2	[x]Yes [ ]No
MT 2	CALL PROCEEDING?		M	3.1.2, 5.2.5.2	[x]Yes [ ]No
MT 3	CONGESTION CONTROL?		N/A 3 (note)	3.1.3, 7.1.5.7	
MT 4	CONNECT?		M	3.1.4, 5.2.7	[x]Yes [ ]No
MT 5	CONNECT ACKNOWLEDGE?		M	3.1.5, 5.1.8	[x]Yes [ ]No
MT 6	DISCONNECT?		M	3.1.6, 5.3.3	[x]Yes [ ]No
MT 7	FACILITY?		N/A 3	3.1.7	
MT 8	INFORMATION?	MC 2.2 NOT MC 2.2	M O	3.1.8, 5.1.3	[x]Yes [ ]No
MT 9	NOTIFY?	MC 6 NOT MC 6	M O	3.1.9, 5.6.2, 5.6.4, 5.6.7, 5.9	[x]Yes [ ]No
MT 10	PROGRESS?	M	3.1.10, 5.1.6		[x]Yes [ ]No
MT 11	RELEASE?	M	3.1.11, 5.3		[x]Yes [ ]No
MT 12	RELEASE COMPLETE?	M	3.1.12, 5.3		[x]Yes [ ]No
MT 13	RESTART?	MC 5 NOT MC 5	M N/A	3.4.1, 5.5	[x]Yes [ ]No
MT 14	RESTART ACKNOWLEDGE?	MC 5 NOT MC 5	M N/A	3.4.2, 5.5	[x]Yes [ ]No
MT 15	RESUME?		N/A 1	3.1.13, 5.6.4	
MT 16	RESUME ACKNOWLEDGE?	MC 6 NOT MC 6	M N/A	3.1.14, 5.6.4	[x]Yes [ ]No
MT 17	RESUME REJECT?	MC 6 NOT MC 6	M N/A	3.1.15, 5.6.5	[x]Yes [ ]No
MT 18	SEGMENT?	MC 13 NOT MC 13	M N/A	annex K	[x]Yes [ ]No
MT 19	SETUP?		M	3.1.16, 5.1.1	[x]Yes [ ]No
MT 20	SETUP ACKNOWLEDGE?		M	3.1.17, 5.2.4	[x]Yes [ ]No
MT 21	STATUS?		M	3.1.18, 3.4.3, 5.8.11	[x]Yes [ ]No
MT 22	STATUS ENQUIRY?	MC 7.2 NOT MC 7.2	M N/A	3.1.19, 5.8.10	[x]Yes [ ]No
MT 23	SUSPEND?		N/A 1	3.1.20, 5.6.1	
MT 24	SUSPEND ACKNOWLEDGE?	MC 6 NOT MC 6	M N/A	3.1.21, 5.6.2	[x]Yes [ ]No
MT 25	SUSPEND REJECT?	MC 6 NOT MC 6	M N/A	3.1.22, 5.6.3	[x]Yes [ ]No
MT 26	USER INFORMATION?		N/A 3 (note)	3.1.23, 7.1.4, 7.1.5	
NOTE:	These capabilities appear in the PICS proforma for UUS supplementary service. The designation of not applicable to ETSI networks is therefore only in the context of basic call control.				

Comments:

6.5.5 Information elements

6.5.5.1 User to network (received by the network)

For the purposes of this subclause, "interpretation" means that the contents of the information element are recognized and acted upon to the extent required by ETS 300 102-1 [1].

Table 6: Information elements, user to network (received by the network)

Item	Information element Does the implementation support the interpretation of...	Conditions for status	Status	Reference	Support
IER 1	Bearer capability?	M	4.5.5	[**x**]Yes [ ]No IER 2	
	Call identity?	MC 6 NOT MC 6	M N/A	4.5.6, 5.6.1	[**x**]Yes [ ]No
IER 3	Call state?		M	4.5.7	[**x**]Yes [ ]No
IER 4	Called party number?		M	4.5.8	[**x**]Yes [ ]No
IER 5	Called party subaddress?		M	4.5.9	[**x**]Yes [ ]No
IER 6	Calling party number?		M	4.5.10	[**x**]Yes [ ]No
IER 7	Calling party subaddress?		M	4.5.11	[**x**]Yes [ ]No
IER 8	Cause?		M	4.5.12	[**x**]Yes [ ]No
IER 9	Channel identification?		M	4.5.13	[**x**]Yes [ ]No
IER 10	Congestion level?		N/A 3 (note)	4.5.14	
IER 11	Date/time?		N/A 1	4.6.1	
IER 12	Display?		N/A 1	4.5.15	
IER 13	Facility?		N/A 3	4.6.2	
IER 14	High layer compatibility?		O	4.5.16	[**x**]Yes [ ]No
IER 15	Keypad facility?		M	4.5.17	[**x**]Yes [ ]No
IER 16	Low layer compatibility?		N/A 2	4.5.18	
IER 17	More data?		N/A 2	4.5.19	
IER 18	Network specific facilities?	MC 9 NOT MC 9	M N/A	4.5.20	[ ]Yes [**x**]No
IER 19	Notification indicator?		O	4.5.21	[**x**]Yes [ ]No
IER 20	Progress indicator?		M	4.5.22	[**x**]Yes [ ]No
IER 21	Repeat indicator?		N/A 3	4.5.23	
IER 22	Restart indicator?	MC 5 NOT MC 5	M N/A	4.5.24	[**x**]Yes [ ]No
IER 23	Segmented message?	MC 13 NOT MC 13	M N/A	4.5.25	[**x**]Yes [ ]No
IER 24	Sending complete?		M	4.5.26, 5.1.1	[**x**]Yes [ ]No
IER 25	Shift?		M	4.5.3, 4.5.4	[**x**]Yes [ ]No
IER 26	Signal?		N/A 1	4.5.27	
IER 27	Transit network selection?	MC 1.4 NOT MC 1.4	M N/A	4.5.28	[ ]Yes [**x**]No
IER 28	User-user?		N/A 3 (note)	4.5.29	
NOTE:	These capabilities appear in the PICS proforma for UUS supplementary service. The designation of not applicable to ETSI networks is therefore only in the context of basic call control.				

Comments:

6.5.5.2 Network to user (transmitted by the network)

Table 7: Information elements, network to user (transmitted by the network)

Item	Information element Does the implementation support the inclusion of...	Conditions for status	Status	Reference	Support
IET 1	Bearer capability?	M	4.5.5	[**x**]Yes [ ]No	IET 2 Call identity?
MC 6		M NOT MC 6	4.5.6, 5.6.4 N/A		[**x**]Yes [ ]No
IET 3	Call state?		M	4.5.7	[**x**]Yes [ ]No
IET 4	Called party number?		M	4.5.8	[**x**]Yes [ ]No
IET 5	Called party subaddress?		M	4.5.9	[**x**]Yes [ ]No
IET 6	Calling party number?		M	4.5.10	[**x**]Yes [ ]No
IET 7	Calling party subaddress?		M	4.5.11	[**x**]Yes [ ]No
IET 8	Cause?		M	4.5.12	[**x**]Yes [ ]No
IET 9	Channel identification?		M	4.5.13	[**x**]Yes [ ]No
IET 10	Congestion level?		N/A 3 (note)	4.5.14, 7.1.5.7	
IET 11	Date/time?		O	4.6.1	[**x**]Yes [ ]No
IET 12	Display?		O	4.5.15	[**x**]Yes [ ]No
IET 13	Facility?		N/A 3	4.6.2	
IET 14	High layer compatibility?		N/A 2	4.5.16	
IET 15	Keypad facility?		O	4.5.17	[**x**]Yes [ ]No
IET 16	Low layer compatibility?		O	4.5.18, 3.1.4	[**x**]Yes [ ]No
IET 17	More data?		N/A 2	4.5.19	
IET 18	Network specific facilities?	MC 9 NOT MC 9	M N/A	4.5.20	[ ]Yes [**x**]No
IET 19	Notification indicator?	MC 6 NOT MC 6	M O	4.5.21, 5.6.2, 5.6.4	[**x**]Yes [ ]No
IET 20	Progress indicator?		M	4.5.22	[**x**]Yes [ ]No
IET 21	Repeat indicator?		N/A 3	4.5.23	
IET 22	Restart indicator?	MC 5 NOT MC 5	M N/A	4.5.24	[**x**]Yes [ ]No
IET 23	Segmented message?	MC 13 NOT MC 13	M N/A	4.5.25	[**x**]Yes [ ]No
IET 24	Sending complete?		O	4.5.26, 5.2.4	[**x**]Yes [ ]No
IET 25	Shift?		O	4.5.3, 4.5.4	[**x**]Yes [ ]No
IET 26	Signal?		O	4.5.27	[ ]Yes [**x**]No
IET 27	Transit network selection?		N/A 1	4.5.28	
IET 28	User-user?		N/A 3 (note)	4.5.29	

NOTE: These capabilities appear in the PICS proforma for UUS supplementary service. The designation of not applicable to ETSI networks is therefore only in the context of basic call control.

Comments:

6.5.6 Timers

Table 8: Timers

Item	Timer Does the implementation support...	Conditions for status	Status	Reference	Support
TM 1	T301?		M (note 1)	Table 9.1	[x]Yes [ ]No
TM 2	T302?		M	Table 9.1	[x]Yes [ ]No (note 2)
TM 3	T303?		M	Table 9.1	[x]Yes [ ]No
TM 4	T304?	MC 2.2 NOT MC 2.2	O N/A	Table 9.1	[x]Yes [ ]No
TM 5	T305?	M	Table 9.1	[x]Yes [ ]No TM 6	T306?
	MC 1.5	M NOT MC 1.5	Table 9.1 N/A	[x]Yes [ ]No	
TM 7	T307?	MC6 NOT MC 6	M N/A	Table 9.1	[x]Yes [ ]No
TM 8	T308?		M	Table 9.1	[x]Yes [ ]No
TM 9	T309?		M	Table 9.1	[x]Yes [ ]No
TM 10	T310?		M	Table 9.1	[x]Yes [ ]No
TM 11	T312?		M	Table 9.1	[x]Yes [ ]No
TM 12	T313?		N/A 2	Table 9.1	
TM 13	T314?	MC 13 NOT MC 13	M N/A	Table 9.1	[x]Yes [ ]No
TM 14	T316?	MC 5 NOT MC 5	M N/A	Table 9.1	[x]Yes [ ]No
TM 15	T317?	MC 5 NOT MC 5	M N/A	Table 9.1	[x]Yes [ ]No
TM 16	T318?		N/A 2	Table 9.1	
TM 17	T319?		N/A 2	Table 9.1	
TM 18	T321?		N/A 3	Table 9.1	
TM 19	T322?	MC 7.2 NOT MC 7.2	M N/A	Table 9.1	[x]Yes [ ]No
Note 1	Timer T301 is not used if the network has already applied an internal alerting supervision timing function.				
Note 2	Timer T302 is split into two timers, one long (PEOS) and one short (PEAM) timer. Short timing is applicable when the number of received B-digits is greater than or equal to the minimum required digits and less than the maximum requred digits. If the number of received B-digits is less than the minimum required digits then long timing is applicable. The short timer is currently set to 6 seconds and the long timer to 15 seconds.				

Comments:

6.6 Additional information for interoperability

6.6.1 Information element structure

Table 9: Information element structure

Item	Information element parts Does the information element include...	Status	Values	Support
IS 1	**Bearer capability** (ETS 300 102-1 [1], table 4-6, figure 4-11)			
IS 1.1	Octet 3 bits 6 and 7, coding standard?	M		[**x**]Yes [ ]No
	1. CCITT 2. International 3. National 4. Network	O N/A 3 N/A 3 N/A 3	0 1 2 3	[**x**]Yes [ ]No
IS 1.2	Octet 3 bits 1 to 5, information transfer capability?	M		[**x**]Yes [ ]No
	1. Speech 2. Unrestricted digital 3. Restricted digital 4. 3,1 kHz audio 5. 7 kHz audio 6. Video	O O N/A 3 O O O	0 8 9 16 17 24	[**x**]Yes [ ]No [**x**]Yes [ ]No [**x**]Yes [ ]No [**x**]Yes [ ]No [ ]Yes [**x**]No
IS 1.3	Octet 4 bits 6 and 7, transfer mode?	M		[**x**]Yes [ ]No
	1. Circuit	O	0	[**x**]Yes [ ]No
IS 1.4	Octet 4 bits 1 to 5, information transfer rate, origination to destination if octet 4b is present, bi-directional otherwise?	M		[**x**]Yes [ ]No
	1. 64 kbit/s 2. 2 x 64 kbit/s	O O	16 17	[**x**]Yes [ ]No [ ]Yes [**x**]No
IS 1.5	Octet 4a bits 5 to 7, structure?	O		[ ]Yes [ ]No
	1. Default 2. 8 kHz integrity 3. Service data unit integrity 4. Unstructured	O O O O	0 1 4 7	[ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No
IS 1.6	Octet 4a bits 3 and 4, configuration?	O		[ ]Yes [ ]No
	1. Point-to-point	O	0	[ ]Yes [ ]No
IS 1.7	Octet 4a bits 1 and 2, establishment?	O		[ ]Yes [ ]No
	1. Demand	O	0	[ ]Yes [ ]No
IS 1	**Bearer capability** (ETS 300 102-1 [1], table 4-6, figure 4-11)			
IS 1.8	Octet 4b bits 6 and 7, symmetry?	O		[ ]Yes [ ]No
	1. Bi-directional symmetric	O	0	[ ]Yes [ ]No
IS 1.9	Octet 4b bits 1 to 5, information transfer rate, destination to origination?	O		[ ]Yes [ ]No
	1. 64 kbit/s 2. 2 x 64 kbit/s	O O	16 17	[ ]Yes [ ]No [ ]Yes [ ]No

IS 1.10	Octet 5 bits 1 to 5, user information layer 1 protocol?	O		[**x**]Yes [ ]No
	1. V.110/X.30	O	1	[ ]Yes [ ]No
	2. G.711 µ-law	N/A 3	2	
	3. G.711 A-law	O	3	[**x**]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
	6. G.7xx 384 kbit/s video	O	6	[ ]Yes [ ]No
	7. Non-CCITT rate adaption	O	7	[ ]Yes [ ]No
	8. V.120	N/A 3	8	
	9. X.31 HDLC	O	9	[ ]Yes [ ]No
IS 1.11	Octet 5a bit 7, synchronous/asynchronous?	O		[ ]Yes [ ]No
	1. Synchronous	O	0	[ ]Yes [ ]No
	2. Asynchronous	O	1	[ ]Yes [ ]No
IS 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
IS 1	**Bearer capability** (ETS 300 102-1 [1], table 4-6, figure 4-11)			
IS 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 CCITT V.6 and X.1	O	1	[ ]Yes [ ]No
	3. 1,2 kbit/s CCITT V.6	O	2	[ ]Yes [ ]No
	4. 2,4 kbit/s CCITT V.6 and X.1	O	3	[ ]Yes [ ]No
	5. 3,6 kbit/s CCITT V.6	O	4	[ ]Yes [ ]No
	6. 4,8 kbit/s CCITT V.6 and X.1	O	5	[ ]Yes [ ]No
	7. 7,2 kbit/s CCITT V.6	O	6	[ ]Yes [ ]No
	8. 8 kbit/s CCITT I.460	O	7	[ ]Yes [ ]No
	9. 9,6 kbit/s CCITT V.6 and X.1	O	8	[ ]Yes [ ]No
	10. 14,4 kbit/s CCITT V.6	O	9	[ ]Yes [ ]No
	11. 16 kbit/s CCITT I.460	O	10	[ ]Yes [ ]No
	12. 19,2 kbit/s CCITT V.6	O	11	[ ]Yes [ ]No
	13. 32 kbit/s CCITT I.460	O	12	[ ]Yes [ ]No
	14. 48 kbit/s CCITT V.6 and X.1	O	14	[ ]Yes [ ]No
	15. 56 kbit/s CCITT V.6	O	15	[ ]Yes [ ]No
	16. 64 kbit/s CCITT X.1	O	16	[ ]Yes [ ]No
	17. 0,1345 kbit/s CCITT X.1	O	21	[ ]Yes [ ]No
	18. 0,100 kbit/s CCITT X.1	O	22	[ ]Yes [ ]No
	19. 0,075/1,2 kbit/s CCITT V.6 and X.1	O	23	[ ]Yes [ ]No
	20. 1,2/0,075 kbit/s CCITT V.6 and X.1	O	24	[ ]Yes [ ]No
	21. 0,050 kbit/s CCITT V.6 and X.1	O	25	[ ]Yes [ ]No
	22. 0,075 kbit/s CCITT V.6 and X.1	O	26	[ ]Yes [ ]No
	23. 0,110 kbit/s CCITT V.6 and X.1	O	27	[ ]Yes [ ]No
	24. 0,150 kbit/s CCITT V.6 and X.1	O	28	[ ]Yes [ ]No
	25. 0,200 kbit/s CCITT V.6 and X.1	O	29	[ ]Yes [ ]No
	26. 0,300 kbit/s CCITT V.6 and X.1	O	30	[ ]Yes [ ]No
	27. 12 kbit/s CCITT V.6	O	31	[ ]Yes [ ]No
	Octet 5b, case 1 (note)			

IS 1.14	Octet 5b bits 6 and 7, intermediate rate?	O		[ ]Yes [ ]No
	1. Not used 2. 8 kbit/s 3. 16 kbit/s 4. 32 kbit/s	O O O O	0 1 2 3	[ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No
IS 1.15	Octet 5b bit 5, network independent clock (NIC) on transmission?	O		[ ]Yes [ ]No
	1. Not required to send data with NIC 2. Required to send data with NIC	O O	0 1	[ ]Yes [ ]No [ ]Yes [ ]No
IS 1.16	Octet 5b bit 4, NIC on reception?	O		[ ]Yes [ ]No
	1. Cannot accept data with NIC 2. Can accept data with NIC	O O	0 1	[ ]Yes [ ]No [ ]Yes [ ]No
IS 1	**Bearer capability** (ETS 300 102-1 [1], table 4-6, figure 4-11)			
IS 1.17	Octet 5b bit 3, flow control on transmission?	O		[ ]Yes [ ]No
	1. Not required to send data with flow control 2. Required to send data with flow control	O O	0 1	[ ]Yes [ ]No [ ]Yes [ ]No
IS 1.18	Octet 5b bit 2, flow control on reception?	O		[ ]Yes [ ]No
	1. Cannot accept data with flow control mechanism 2. Can accept data with flow control mechanism	O O	0 1	[ ]Yes [ ]No [ ]Yes [ ]No
	Octet 5b, case 2 (note)			
IS 1.19	Octet 5b bit 7, rate adaption header?	O		[ ]Yes [ ]No
	1. Header not included 2. Header included	O O	0 1	[ ]Yes [ ]No [ ]Yes [ ]No
IS 1.20	Octet 5b bit 6, multiple frame establishment (MFE) support in data link?	O		[ ]Yes [ ]No
	1. MFE not supported, only UI frames allowed 2. MFE supported	O O	0 1	[ ]Yes [ ]No [ ]Yes [ ]No
IS 1.21	Octet 5b bit 5, mode of operation?	O		[ ]Yes [ ]No
	1. Bit transparent mode 2. Protocol sensitive mode	O O	0 1	[ ]Yes [ ]No [ ]Yes [ ]No
IS 1.22	Octet 5b bit 4, logical link identifier (LLI) negotiation?	O		[ ]Yes [ ]No
	1. Default LLI = 256 only 2. Full protocol negotiation	O O	0 1	[ ]Yes [ ]No [ ]Yes [ ]No
IS 1.23	Octet 5b bit 3, assignor/assignee?	O		[ ]Yes [ ]No
	1. Message originator is "default assignee" 2. Message originator is "assignor only"	O O	0 1	[ ]Yes [ ]No [ ]Yes [ ]No
IS 1.24	Octet 5b bit 2, in-band/out-band negotiation?	O		[ ]Yes [ ]No
	1. Negotiation performed with USER INFORMATIONmessages 2. Negotiation performed in-band	O O	0 1	[ ]Yes [ ]No [ ]Yes [ ]No

IS 1.25	Octet 5c bits 6 and 7, number of stop bits?	O		[ ]Yes [ ]No
	1. Not used 2. 1 bit 3. 1,5 bits 4. 2 bits	O O O 0	0 1 2 3	[ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No
IS 1	**Bearer capability** (ETS 300 102-1 [1], table 4-6, figure 4-11)			
IS 1.26	Octet 5c bits 4 and 5, number of data bits excluding parity?	O		[ ]Yes [ ]No
	1. Not used 2. 5 bits 3. 7 bits 4. 8 bits	O O O O	0 1 2 3	[ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No
IS 1.27	Octet 5c bits 1 to 3, parity information?	O		[ ]Yes [ ]No
	1. Odd 2. Even 3. None 4. Forced to 0 5. Forced to 1	O O O O O	0 2 0 4 5	[ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No
IS 1.28	Octet 5d bit 7, duplex mode?	O		[ ]Yes [ ]No
	1. Half duplex 2. Full duplex	O O	0 1	[ ]Yes [ ]No [ ]Yes [ ]No
IS 1.29	Octet 5d bits 1 to 6, modem type?	O		[ ]Yes [ ]No
	1. V.21 2. V.22 3. V.22 bis 4. V.23 5. V.26 6. V.26 bis 7. V.26 ter 8. V.27 9. V.27 bis 10. V.27 ter 11. V.29 12. V.32	O O O O O O O O O O O O	33 34 35 36 37 38 39 40 41 42 43 44	[ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No [ ]Yes [ ]No
IS 1.30	Octet 6 bits 1 to 5, user information layer 2 protocol?	O		[**x**]Yes [ ]No
	1. Q.921 2. X.25 link level	O O	2 6	[ ]Yes [ ]No [**x**]Yes [ ]No
IS 1.31	Octet 7 bits 1 to 5, user information layer 3 protocol?	O		[ ]Yes [ ]No
	1. Q.931 2. X.25 packet layer	O O	2 6	[ ]Yes [ ]No [**x**]Yes [ ]No
IS 2	**Channel identification** (ETS 300 102-1 [1], table 4-15, figure 4-20)			
IS 2.1	Octet 3 bit 7, interface identifier present?	M		[**x**]Yes [ ]No
	1. Interface implicitly identified 2. Interface explicitly identified	M N/A 3	0 1	[**x**]Yes [ ]No
IS 2.2	Octet 3 bit 6, interface type?	M		[**x**]Yes [ ]No
	1. Basic rate interface	O	0	[**x**]Yes [ ]No

IS 2.3	Octet 3 bit 4, preferred/exclusive?	M		[**x**]Yes [ ]No
	1. Indicated channel preferred 2. Exclusive, indicated channel only accepted	O O	0 1	[**x**]Yes [ ]No [ ]Yes [ ]No
IS 2.4	Octet 3 bit 3, D-channel indicator?	M		[**x**]Yes [ ]No
	1. Channel not the D-channel 2. Channel is the D-channel	O O	0 1	[**x**]Yes [ ]No [ ]Yes [**x**]No
IS 2.5	Octet 3 bits 1 and 2. information channel selection?	M		[**x**]Yes [ ]No
	1. No channel 2. B1 channel 3. B2 channel 4. Any channel	O O O O	0 1 2 3	[ ]Yes [**x**]No [**x**]Yes [ ]No [**x**]Yes [ ]No [**x**]Yes [ ]No
IS 2.6	Octet 3.1, bits 1 to 7, interface identifier?	N/A 3		
IS 2.7	Octet 3.2, bits 6 and 7, coding standard?	N/A 2		
IS 2.8	Octet 3.2 bit 5, number/map?	N/A 2		
IS 2.9	Octet 3.2 bits 1 to 4, channel type/map element type?	N/A 2		
IS 2.10	Octet 3.3, channel number/slot map?	N/A 2		
IS 3	**High layer compatibility** (ETS 300 102-1 [1], table 4-17, figure 4-24)			
IS 3.1	Octet 3 bits 6 and 7, coding standard?	M		[**x**]Yes [ ]No
	1. CCITT standardized 2. International 3. National 4. Network	O O O O	0 1 2 3	[**x**]Yes [ ]No [ ]Yes [**x**]No [**x**]Yes [ ]No [ ]Yes [**x**]No
IS 3.2	Octet 4 bits 1 to 7, HL characteristics?	M		[ ]Yes [ ]No
	1 Telephony 2 Fax group 2/3 (F.182) 3 Fax group 4 class 1 (F.184) 4 Teletex, F.230, Fax group 4, classes II & III (F.184) 5 Teletex, basic and processable mode (F.220) 6 Teletex basic mode (F.200) 7 Syntax based videotex (F.300, T.102) 8 International videotex interworking via gateways or interworking units (F.300, T.101) 9 Telex (F.60) 10 MHS (X.400)	O O O O O O O [**x**]Yes [ ]No O O O	1 4 33 36 40 49 50 51 53 56	[**x**]Yes [ ]No [**x**]Yes [ ]No [**x**]Yes [ ]No [**x**]Yes [ ]No [**x**]Yes [ ]No [**x**]Yes [ ]No [**x**]Yes [ ]No [ ]Yes [**x**]No [ ]Yes [**x**]No
	11 OSI application (X.200) 12 Maintenance 13 Management 14 Audiovisual	O O O O	65 94 95 96	[ ]Yes [**x**]No [ ]Yes [**x**]No [ ]Yes [**x**]No [**x**]Yes [ ]No

IS 3.3	Octet 4a bits 1 to 7, extended HL characteristics?	O		[ ]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, 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
NOTE:	Octet 5b case 1 is for V.110/X.30 rate adaption, octet 5b case 2 is for V.120 rate adaption.			

Comments:
INFORMATION ELEMENT PARTS ARE TRANSPARENT FOR THE NETWORK SWITCHING SYSTEM (EWSD) IF NOT MARKED OTHERWISE