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Integrated Services Digital Network (ISDN);
Digital Subscriber Signalling System No. one (DSS1)
Protocol Implementation Conformance Statement (PICS)
proforma specification for signalling network layer protocol
for circuit-mode basic call control (primary rate access, user)

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Contents

Fore	word				5
Intro	duction				5
1	Scope				7
2	Norma	tive referen	ces		7
3	Definiti	ons			7
4	Abbrev	riations			8
5	Confor	mance			8
6					
	6.1			nentation	
		6.1.1		on Under Test (IUT) identification	
		6.1.2		er Test (SUT) identification	
		6.1.3		lier	
		6.1.4			
		6.1.5	PICS contact	person	10
	6.2	PICS/Sy	stem Conformand	ce Statement (SCS)	11
	6.3	Identifica	ation of the protoc	ol	11
	6.4	Global st	tatement of confo	rmance	11
	6.5	Informat	ion for conforman	ce testing	12
		6.5.1	Major capabi	lities	12
		6.5.2		pabilities	
		6.5.3		T	
		6.5.4		essages	
		0.0	6.5.4.1	Network to user (received by the user)	
			6.5.4.2	User to network (transmitted by the user)	
		6.5.5		lements	
		0.0.0	6.5.5.1	Network to user (received by the user)	
			6.5.5.2	User to network (transmitted by the user)	
		6.5.6			
	0.0				
	6.6	6.6.1		nteroperabilitylement structure	
Anne	x A (info	rmative):	Instructions for o	completing the PICS proforma	47
A.1	`	,			
	•	·	J		
A.2	Identific	cation of the	e implementation.		47
A.3	Global	statement of	of conformance		47
A.4				auses	
	A.4.1				
	A.4.2				
	A.4.3				
	A.4.4			eived by the IUT	
	A.4.5			nsmitted by the IUT	48
	A 4 6	Informat	ion elements, rece	aived by the ILIT	48

Page 4 I-ETS 300 315: December 1994

A.4.7	Information elements, transmitted by the IUT	48
	Supported timers	
	Information elements structure	
History		49

I-ETS 300 315: December 1994

Foreword

This Interim European Telecommunication Standard (I-ETS) has been produced by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI).

An ETSI standard may be given I-ETS status either because it is regarded as a provisional solution ahead of a more advanced standard, or because it is immature and requires a "trial period". The life of an I-ETS is limited to three years after which it can be converted into an ETS, have it's life extended for a further two years, be replaced by a new version or be withdrawn.

This I-ETS forms part of a set of I-ETSs completing the documentation of ETS 300 102-1 (ISDN signalling network layer protocol) as specified in ISO/IEC 9646-1 (e.g. conformance testing) as follows:

I-ETS 300 314:	"Protocol Impler specification (basic		Conformance er)";	Statement	(PICS)	proforma
I-ETS 300 315:	"PICS proforma s	pecification	n (primary rate a	access, user))";	
I-ETS 300 316:	"PICS proforma sp	ecification (l	basic access, ne	twork)";		
I-ETS 300 317:	"PICS proforma sp	ecification (primary rate acce	ess, network)'	'. '	
I-ETS 300 318:	"Protocol Implem specification (basic			for Testing	(PIXIT)	proforma
I-ETS 300 319:	"PIXIT proforma sp	pecification (primary rate acc	ess, user)";		
I-ETS 300 322:	"Abstract test suite	(user)".				

Proposed announcement date					
Date of latest announcement of this I-ETS (doa):	31 March 1995				

Introduction

To evaluate conformance of a particular implementation, it is necessary to have a statement of which capabilities and options have been implemented for a given Open Systems Interconnection (OSI) protocol. Such a statement is called a Protocol Implementation Conformance Statement (PICS).

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I-ETS 300 315: December 1994

1 Scope

This Interim European Telecommunication Standard (I-ETS) provides the Protocol Implementation Conformance Statement (PICS) proforma for the ISDN network layer protocol (circuit-mode, primary rate access, user) as specified in ETS 300 102-1 [1] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-2 [3].

Both the packet interworking (clause 6 of ETS 300 102-1 [1]) and the User-to-User Signalling (UUS) procedures (clause 7 of ETS 300 102-1 [1]) are excluded from the present PICS proforma.

2 Normative references

This I-ETS incorporates by dated and undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this I-ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

[1]	ETS 300 102-1 (1990): "Integrated Services Digital Network (ISDN); Usernetwork interface layer 3; Specifications for basic call control".
[2]	ISO/IEC 9646-1 (1990): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts" (see also CCITT Recommendation X.290 (1991)).
[3]	ISO/IEC 9646-2 (1990): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract test suite specification" (see also CCITT Recommendation X.291 (1991)).

3 Definitions

For the purposes of this I-ETS, the following definitions apply:

Network: the equipment existing at the network side of the user-network interface.

Protocol Implementation Conformance Statement (PICS): a statement made by the supplier of an Open Systems Interconnection (OSI) implementation or system, stating which capabilities have been implemented for a given OSI protocol (see ISO/IEC 9646-1 [2]).

PICS proforma: a document, in the form of a questionnaire, which when completed for an OSI implementation or system becomes the PICS (see ISO/IEC 9646-1 [2]).

Static conformance review: a review of the extent to which the static conformance requirements are met by the Implementation Under Test (IUT), accomplished by comparing the PICS with the static conformance requirements expressed in the relevant standard(s) (see ISO/IEC 9646-1 [2]).

User: the equipment existing at the user side of the user-network interface.

I-ETS 300 315: December 1994

4 Abbreviations

For the purposes of this I-ETS, the following abbreviations apply:

Absent Not relevant to this proforma

AND Boolean "and"

CS prefix for index numbers for the Call States group

IER prefix for index numbers for the Received Information Elements group
IET prefix for index numbers for the Transmitted Information Elements group
IS prefix for index numbers for the Information element Structure group

ISDN Integrated Services Digital Network IUT Implementation Under Test

M Mandatory requirements (these are to be observed in all cases)
MC prefix for index numbers for the Major Capabilities group
MR prefix for index numbers for the Received Messages group
MT prefix for index numbers for the Transmitted Messages group
N/A Not supported, not applicable or the conditions for status are not met

N/A 1 Not Applicable in this direction of transmission N/A 2 Not Applicable at the implementation of this interface

N/A 3 Not Applicable to ETSI networks

NOT Boolean "not"

O Option (may be selected to suit the implementation, provided that any

requirements applicable to the option are observed)

O.n Options, but support required for either at least one or only one of the options in

the group labelled with the same numeral "n"

OR Boolean "or"

OSI Open Systems Interconnection

PICS Protocol Implementation Conformance Statement
PIXIT Protocol Implementation eXtra Information for Testing
SC prefix for index numbers for Subsidiary Capabilities group

SCS System Conformance Statement

SUT System Under Test

TM prefix for index numbers for the Timers group

UUS User-to-User Signalling

[] Yes [] No Tick "Yes" if item is supported, tick "No" if item is not supported

5 Conformance

The supplier of a protocol implementation which is claimed to conform to ETS 300 102-1 [1] is required to complete a copy of the PICS proforma provided in this I-ETS and is required to provide the information necessary to identify both the supplier and the implementation.

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	on:
6.1.2	System Under Test (SUT) identification
SUT nam	e:
Hardware	configuration:
Operating	system:
6.1.3	Product supplier
Name:	
Address:	
Telephon	e number:
. 0.001.011	

acsimile number:
Additional information:
A.A. Oliana
S.1.4 Client Name:
Address:
elephone number:
acsimile number:
Additional information:
3.1.5 PICS contact person
elephone number:
Facsimile number:

Additional inf	formation:
6.2 PIC	CS/System Conformance Statement (SCS)
Provide the r	relationship of the PICS with the SCS for the system:
6.3 Ide	entification of the protocol
This PICS pr	roforma applies to the following standard:
ETS 300 102 Specification	2-1 (1990) : "Integrated Services Digital Network (ISDN); User-network interface layer 3; as for basic call control".
6.4 Gld	obal statement of conformance
The implem standard.	entation described in this PICS meets all the mandatory requirements of the referenced
	[] Yes
	[] No

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.

NOTE:

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 outgoing calls?		0.1	5.1	[]Yes[]No
MC 1.1	support procedures of en-bloc sending?	MC 1 NOT MC 1	O.2 N/A	5.1.1, 5.1.5.1	[]Yes[]No
MC 1.2	support procedures of overlap sending?	MC 1 NOT MC 1	O.2 N/A	5.1.3, 5.1.5.2	[]Yes[]No
MC 1.3	send notification of interworking in the Progress indicator information element of an outgoing SETUP message if the implementation is the point at which a call enters an ISDN environment from a non-ISDN environment?	MC 1 NOT MC 1	M N/A	5.1.6	[]Yes[]No
MC 1.4	support transit network selection?	MC 1 NOT MC 1	O N/A	5.1.10, annex C	[]Yes[]No
MC 1.5	attach to the B-channel and stop appropriate timers upon receipt of an appropriate call control and progress indicator?	MC 1 NOT MC 1	O N/A	5.1.2, 5.1.3, 5.1.7, 5.4	[]Yes[]No
MC 1.6	interpret notification of interworking sent from the network on outgoing calls?	MC 1 NOT MC 1	O N/A	5.1.6	[]Yes[]No
MC 1.7	generate local tones and local alerting indications?	MC 1 NOT MC 1	O N/A	5.1.2, 5.1.7	[]Yes[]No
MC 2	support incoming calls?		0.1	5.2	[]Yes[]No
MC 2.1	support procedures of en-bloc receiving?	MC 2 NOT MC 2	M N/A	5.2.1, 5.2.5.1	[]Yes[]No
MC 2.2	support procedures of overlap receiving?	MC 2 NOT MC 2	O N/A	5.2.1, 5.2.4	[]Yes[]No
MC 2.3	send notification of interworking on incoming calls if the implementation is the point at which a call leaves an ISDN environment for a non-ISDN environment?	MC 2 NOT MC 2	M N/A	5.2.6	[]Yes[]No
	(conti	inued)			

Table 1 (continued): Major capabilities

Item	Major capability Does the implementation	Conditions for status	Status	Reference	Support
MC 2.4	accept the SETUP message on the point-to- point data link?	MC 2 NOT MC 2	M N/A	5.2.1, 5.2.3.1	[]Yes[]No
MC 2.5	accept the SETUP message 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 if the implementation is the point at which a call leaves an ISDN environment for a non-ISDN environment?	MC 2 NOT MC 2	M N/A	5.2.6	[]Yes[]No
MC 2.7	support compatibility checking if a coincident S and T reference point exists?	MC 2 NOT MC 2	M N/A	5.2.2, annex B	[]Yes []No
MC 3	support user-initiated call clearing?		M	5.3.3	[]Yes []No
MC 4.1	wait for the network to send a RELEASE message on the receipt of a DISCONNECT message with Progress indicator information element #8?		O.3	5.3.4.1	[]Yes[]No
MC 4.2	respond with a RELEASE message on the receipt of a DISCONNECT message with Progress indicator information element #8?		O.3	5.3.4.1	[]Yes[]No
MC 4.3	support a manual configuration option between MC 4.1 and MC 4.2?	MC 4.1 AND MC 4.2 NOT MC 4.1 OR NOT MC 4.2	M N/A	5.3.4.1	[]Yes []No
MC 4.4	support call clearing initiated by the network with tones and announcements not provided?		М	5.3.4.2	[]Yes[]No
MC 5	support restart procedure?		М	5.5	[]Yes []No
MC 6	support call rearrangement procedures?		N/A 3	5.6	
	(cont	inued)			

Table 1 (continued): Major capabilities

Item	Major capability Does the implementation	Conditions for status	Status	Reference	Support
MC 7.1	support response to STATUS ENQUIRY message?		M	5.8.10	[]Yes[]No
MC 7.2	support sending of STATUS ENQUIRY message?		0	5.8.10	[]Yes []No
MC 8	support symmetric call operation?		N/A 3	annex D	
MC 9	support network specific facility selection?	MC 1 NOT MC 1	O N/A	annex E	[]Yes []No
MC 10	support Low layer compatibility information element negotiation?		0	annex M	[]Yes[]No
MC 11.1	support user-to-user signalling during the set-up		N/A 3	7.1.1, 7.1.3	
MC 11.1	and clearing phases of a call (service 1)?		(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?		0	annex N	[]Yes[]No
MC 13	support message segmentation procedures?		0	annex K	[]Yes[]No
MC 14	D-channel back-up procedure?		N/A 3	annex F	
	(cont	inued)			

Table 1 (concluded): Major capabilities

Item	Major capability Does the implementation	Conditions for status	Status	Reference	Support	
MC 15	support procedures for bearer service change?			N/A 3	annex O	
O.1 O.2 O.3	MC 1 and MC 2 MC 1.1 and MC 1.2 MC 4.1 and MC 4.2	Support of at least one of these options is required. Support of at least one of these options is required. Support of at least one of these options is required.				
NOTE :	These capabilities appear i ETSI networks is therefore	n the PICS proforma for only in the context of b	or UUS supplementa pasic call control.	ary service. 7	The designation o	f not applicable to

Comments:	 	
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 1.1	send the called party address information, if present, in the Called party number information element?		М	5.1.1, 5.1.3	[]Yes[]No
SC 1.2	send the called party address information, if present, in the Keypad facility information element?		N/A 3	5.1.1, 5.1.3	
SC 2	use a 2 octets call reference value in an outgoing SETUP message?		M	4.3	[]Yes []No
SC 3	support the sending of CONNECT ACKNOWLEDGE message during outgoing call establishment?	MC 1 NOT MC 1	O N/A	5.1.8	[]Yes[]No
SC 4	monitor the status of B-channels (in use or not in use)?	MC 1 NOT MC 1	O N/A	5.1.1	[]Yes []No
SC 5.1	if a coincident S and T reference point exists, check the bearer service provided?	MC 2.7 NOT MC 2.7	M N/A	5.2.2, annex B.3.2	[]Yes[]No
SC 5.2	if a T reference point exists, check the bearer service provided?	MC 2.7 NOT MC 2.7	O N/A	5.2.2, annex B.3.2	[]Yes []No
SC 6	check the Low layer compatibility information element if available?	MC 2.7 NOT MC 2.7	O N/A	5.2.2, annex B.3.3	[]Yes[]No
SC 7	use the Bearer capability information element for Low layer compatibility information element checking if the SETUP message received does not include the Low layer compatibility information element?	MC 2.7 NOT MC 2.7	O N/A	annex B.3.3	[]Yes []No
SC 8	check the High layer compatibility information element?	MC 2.7 NOT MC 2.7	O N/A	5.2.2, annex B.3.3	[]Yes []No
	General errors		_		
SC 9	ignore a received message with protocol discriminator error?		М	5.8.1	[]Yes[]No
SC 10	ignore a received message too short to contain a complete information element?		M	5.8.2	[]Yes[]No
	(conti	inued)			

Subsidiary capability Does the implementation	Conditions for status	Status	Reference	Support
Call reference errors		<u> </u>		
ignore a received message with Call reference octet 1 bits 5 to 8 not equal to 0?		M	5.8.3.1	[]Yes []No
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	[]Yes[]No
ignore a received message related to basic call containing the dummy Call reference value?		M	5.8.3.1	[]Yes[]No
ignore a Call reference information element of a length other than those supported? Specifically:			5.8.3.1	
greater than 1?		N/A 2		
less than 2?		0		[]Yes[]No
greater than 2?		0		[]Yes []No
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)	[]Yes[]No
transmit a RELEASE COMPLETE message on receiving a RELEASE message with unrecognizable Call reference value?		M	5.8.3.2 (b)	[]Yes[]No
take no action on receiving a RELEASE COMPLETE message with unrecognizable Call reference value?		M	5.8.3.2 (c)	[]Yes []No
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)	[]Yes []No
ignore a SETUP message containing a Call reference value relating to an existing call?		M	5.8.3.2 (e)	[]Yes []No
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)	[]Yes[]No
transm messa ACKN	nit a STATUS message on receiving any age other than RESTART, RESTART OWLEDGE, STATUS, with global Call nice value?	nit a STATUS message on receiving any age other than RESTART, RESTART OWLEDGE, STATUS, with global Call	nit a STATUS message on receiving any ge other than RESTART, RESTART OWLEDGE, STATUS, with global Call nice value?	nce value relating to an existing call? Init a STATUS message on receiving any age other than RESTART, RESTART OWLEDGE, STATUS, with global Call nce value?

Item	Subsidiary capability Does the implementation	Conditions for status	Status	Reference	Support
	Message type, message sequence errors		<u> </u>		
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	[]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[]No
SC 21	clear call on receipt of an unexpected RELEASE, RELEASE COMPLETE message?		М	5.8.4	[]Yes[]No
	General information element errors				
SC 22	support general information element error procedures in codesets other than 0?		M	5.8.5	[]Yes[]No
SC 23	process information elements regardless of their order in the message?		0.2	5.8.5.1	[]Yes[]No
SC 24	ignore out of sequence information elements?		0.2	5.8.5.1	[]Yes []No
SC 25	ignore not permitted repetitions of an information element?		M	5.8.5.2	[]Yes[]No
SC 26	handle permitted repetitions (up to a limit) of an information element?		M	5.8.5.2	[]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	[]Yes[]No
	(cont	inued)			

Item	Subsidiary capability Does the implementation	Conditions for status	Status	Reference	Support
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"?		М	5.8.6.1, 5.8.6.2, 5.8.7.1	[]Yes[]No
SC 29	clear the call on receipt of a DISCONNECT message, - has 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	[]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	[]Yes[]No
SC 31	treat information elements with length exceeding the maximum as with invalid content?		М	5.8.6.2	[]Yes[]No
	Non-mandatory information element errors				1
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"?		0	5.8.7.1	[]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	[]Yes[]No
	(conti	nued)			

Item	Subsidiary capability Does the implementation	Conditions for status	Status	Reference	Support
SC 34	transmit a RELEASE COMPLETE message on receipt of a RELEASE message with unrecognized non-mandatory information elements?		М	5.8.7.1	[]Yes[]No
SC 35	take no action on the unrecognized information on receipt of a RELEASE COMPLETE message with unrecognized non-mandatory information elements?		М	5.8.7.1	[]Yes[]No
SC 36	ignore incorrect or unrecognizable non- mandatory information elements?		0.3	5.8.7.2	[]Yes []No
SC 37	transmit a STATUS message on receipt of a message with incorrect non-mandatory information elements?		0.3	5.8.7.2	[]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?		М	5.8.7.2	[]Yes []No
SC 40	truncate and process a Call identity information element too long?		N/A 2	5.8.7.2	
	Data link reset				
SC 41	clear calls in overlap sending/receiving?	MC 1.2 OR MC 2.2 NOT MC 1.2 AND NOT MC 2.2	M N/A	5.8.8 (a)	[]Yes[]No
	Data link failure				
SC 42	maintain calls in the establishment phase and in Active state?		М	5.8.8 (c)	[]Yes []No
SC 43	clear all calls not in the Active state?		М	5.8.9 (a)	[]Yes []No
SC 44	proceed to layer 2 re-establishment?		М	5.8.9 (b)	[]Yes[]No
SC 45	transmit either a STATUS ENQUIRY or a STATUS message when layer 2 is reestablished?		M	5.8.9 (b)	[]Yes []No
SC 46	clear all calls in the Active state if layer 2 fails to be re-established?		M	5.8.9 (b)	[]Yes []No
	(cont	inued)			

Item	Subsidiary capability Does the implementation		Conditions for status	Status	Reference	Support
	Status enquiry procedure					
SC 47	retransmit STATUS ENQUIRY number of times up to a limit?	message a	MC 7.2 NOT MC 7.2	O N/A	5.8.10	[]Yes[]No
SC 48	clear call if the limit of SC 47 is	s reached?	SC 47 NOT SC 47	M N/A	5.8.10	[]Yes[]No
0.1 0.2 0.3	SC 19 and SC 20 SC 23 and SC 24 SC 36 and SC 37	Support of one,	and only one, of thes and only one, of thes ast one of these option	e options is	required.	

6.5.3 Call states

Table 3: Call states

Item	Call state Does the implementation support the	Conditions for status	Status	Reference	Support
CS 1	Null state (U0)?		M	2.1.1.1	[]Yes[]No
CS 2	Call Initiated state (U1)?	MC 1 NOT MC 1	M N/A	2.1.1.2	[]Yes []No
CS 3	Overlap Sending state (U2)?	MC 1.2 NOT MC 1.2	M N/A	2.1.1.3	[]Yes []No
CS 4	Outgoing Call Proceeding state (U3)?	MC 1 NOT MC 1	M N/A	2.1.1.4	[]Yes []No
CS 5	Call Delivered state (U4)?	MC 1 NOT MC 1	M N/A	2.1.1.5	[]Yes[]No
CS 6	Call Present state (U6)?	MC 2 NOT MC 2	M N/A	2.1.1.6	[]Yes[]No
CS 7	Call Received state (U7)?	MC 2 NOT MC 2	O N/A	2.1.1.7	[]Yes[]No
CS 8	Connect Request state (U8)?	MC 2 NOT MC 2	M N/A	2.1.1.8	[]Yes []No
CS 9	Incoming Call Proceeding state (U9)?	MC 2 NOT MC 2	O N/A	2.1.1.9	[]Yes []No
CS 10	Active state (U10)?		M	2.1.1.10	[]Yes []No
CS 11	Disconnect Request state (U11)?		M	2.1.1.11	[]Yes []No
CS 12	Disconnect Indication state (U12)?		M	2.1.1.12	[]Yes[]No
CS 13	Suspend Request state (U15)?		N/A 3	2.1.1.13	
CS 14	Resume Request state (U17)?		N/A 3	2.1.1.14	
CS 15	Release Request state (U19)?		M	2.1.1.15	[]Yes []No
CS 16	Call Abort state (N22)?		N/A 2	2.1.2.16	
CS 17	Overlap Receiving state (U25)?	MC 2.2 NOT MC 2.2	M N/A	2.1.1.16	[]Yes[]No

Table 3 (concluded): Call states

Item	Call state Does the implementation support the	Conditions for status	Status	Reference	Support
CS 18	Null state (Rest 0)?		М	2.4.1.1	[]Yes[]No
CS 19	Restart Request state (Rest 1)?		М	2.4.1.2	[]Yes[]No
CS 20	Restart state (Rest 2)?		М	2.4.1.3	[]Yes []No

Comments:		

6.5.4 Supported messages

6.5.4.1 Network to user (received by the user)

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, network to user (received by the user)

Item	Message Does the implementation support the interpretation of	Conditions for status	Status	Reference	Support
MR 1	ALERTING?	MC 1 NOT MC 1	M N/A	3.1.1, 5.1.7	[]Yes []No
MR 2	CALL PROCEEDING?	MC 1 NOT MC 1	M N/A	3.1.2, 5.1.5	[]Yes[]No
MR 3	CONGESTION CONTROL?		N/A 3 (note)	3.1.3, 7.1.5.7	
MR 4	CONNECT?	MC 1 NOT MC 1	M N/A	3.1.4, 5.1.8	[]Yes []No
MR 5	CONNECT ACKNOWLEDGE?	MC 2 NOT MC 2	M N/A	3.1.5, 5.2.8	[]Yes []No
MR 6	DISCONNECT?		M	3.1.6, 5.3.4	[]Yes []No
MR 7	FACILITY?		N/A 3	3.1.7	
MR 8	INFORMATION?	MC 2.2 NOT MC 2.2	M O	3.1.8, 5.2.4	[]Yes []No
MR 9	NOTIFY?		0	3.1.9, 5.9	[]Yes []No
MR 10	PROGRESS?		M	3.1.10, 5.1.6, 5.4	[]Yes[]No
MR 11	RELEASE?		M	3.1.11, 5.3	[]Yes []No
MR 12	RELEASE COMPLETE?		M	3.1.12, 5.3	[]Yes []No
MR 13	RESTART?		M	3.4.1, 5.5	[]Yes []No
MR 14	RESTART ACKNOWLEDGE?		M	3.4.2, 5.5	[]Yes []No
MR 15	RESUME?		N/A 1	3.1.13, 5.6.4	
MR 16	RESUME ACKNOWLEDGE?		N/A 3	3.1.14, 5.6	
MR 17	RESUME REJECT?		N/A 3	3.1.15, 5.6	
	(c	ontinued)			

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

Item	Message Does the implementation support the interpretation of	Conditions for status	Status	Reference	Support
MR 18	SEGMENT?	MC 13 NOT MC 13	M N/A	annex K	[]Yes[]No
MR 19	SETUP?	MC 2 NOT MC 2	M N/A	3.1.16, 5.2.1	[]Yes[]No
MR 20	SETUP ACKNOWLEDGE?	MC 1.2 NOT MC 1.2	M N/A	3.1.17, 5.1.3	[]Yes[]No
MR 21	STATUS?		М	3.1.18, 3.4.3, 5.8.11	[]Yes[]No
MR 22	STATUS ENQUIRY?		М	3.1.19, 5.8.10	[]Yes []No
MR 23	SUSPEND?		N/A 1	3.1.20, 5.6.1	
MR 24	SUSPEND ACKNOWLEDGE?		N/A 3	3.1.21, 5.6	
MR 25	SUSPEND REJECT?		N/A 3	3.1.22, 5.6	
MR 26	USER INFORMATION?		N/A 3 (note)	3.1.23, 7.1.4, 7.1.5	
NOTE:	These capabilities appear in the PICS proform ETSI networks is therefore only in the context		ary service.	The designation of	not applicable to

Comments:		

6.5.4.2 User to network (transmitted by the user)

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

Item	Message Does the implementation support the inclusion of	Conditions for status	Status	Reference	Support
MT 1	ALERTING?	MC 2 NOT MC 2	O N/A	3.1.1, 5.2.5.2	[]Yes []No
MT 2	CALL PROCEEDING?	MC 2 NOT MC 2	M N/A	3.1.2, 5.2.5.2	[]Yes[]No
MT 3	CONGESTION CONTROL?		N/A 3 (note)	3.1.3, 7.1.5.7	
MT 4	CONNECT?	MC 2 NOT MC 2	M N/A	3.1.4, 5.2.7	[]Yes[]No
MT 5	CONNECT ACKNOWLEDGE?	MC 1 NOT MC 1	O N/A	3.1.5, 5.1.8	[]Yes []No
MT 6	DISCONNECT?		М	3.1.6, 5.3.3	[]Yes []No
MT 7	FACILITY?		N/A 3	3.1.7	
MT 8	INFORMATION?	MC 1.2 NOT MC 1.2	M O	3.1.8, 5.1.3	[]Yes[]No
MT 9	NOTIFY?		0	3.1.9, 5.9	[]Yes []No
MT 10	PROGRESS?	MC 2.3 OR MC 12 NOT MC 2.3 AND NOT MC 12	O N/A	3.1.10, 5.2.6, annex N	[]Yes[]No
MT 11	RELEASE?		М	3.1.11, 5.3	[]Yes []No
MT 12	RELEASE COMPLETE?		М	3.1.12, 5.3	[]Yes []No
MT 13	RESTART?		M	3.4.1, 5.5	[]Yes []No
MT 14	RESTART ACKNOWLEDGE?		M	3.4.2, 5.5	[]Yes []No
MT 15	RESUME?		N/A 3	3.1.13, 5.6.4	
MT 16	RESUME ACKNOWLEDGE?		N/A 1	3.1.14, 5.6	
MT 17	RESUME REJECT?		N/A 1	3.1.15, 5.6.5	
	(c	ontinued)			

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

Item	Message Does the implementation support the inclusion of	Conditions for status	Status	Reference	Support
MT 18	SEGMENT?	MC 13 NOT MC 13	M N/A	annex K	[]Yes[]No
MT 19	SETUP?	MC 1 NOT MC 1	M N/A	3.1.16, 5.1.1	[]Yes[]No
MT 20	SETUP ACKNOWLEDGE?	MC 2.2 NOT MC 2.2	M O	3.1.17, 5.2.4	[]Yes[]No
MT 21	STATUS?		М	3.1.18, 3.4.3, 5.8.11	[]Yes[]No
MT 22	STATUS ENQUIRY?	MC 7.2 NOT MC 7.2	M N/A	3.1.19, 5.8.10	[]Yes[]No
MT 23	SUSPEND?		N/A 3	3.1.20, 5.6.1	
MT 24	SUSPEND ACKNOWLEDGE?		N/A 1	3.1.21, 5.6.2	
MT 25	SUSPEND REJECT?		N/A 1	3.1.22, 5.6.3	
MT 26	USER INFORMATION?		N/A 3 (note)	3.1.23, 7.1.4, 7.1.5	
NOTE:	These capabilities appear in the PICS proform ETSI networks is therefore only in the context		ary service.	The designation of	not applicable to

Comments:	
Comments.	

6.5.5 Information elements

6.5.5.1 Network to user (received by the user)

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, network to user (received by the user)

Item	Information element Does the implementation support the interpretation of	Conditions for status	Status	Reference	Support
IER 1	Bearer capability?		М	4.5.5	[]Yes[]No
IER 2	Call identity?		N/A 1	3.1.13, 3.1.20	
IER 3	Call state?		М	4.5.7	[]Yes[]No
IER 4	Called party number?	MC 2 NOT MC 2	O N/A	4.5.8	[]Yes[]No
IER 5	Called party subaddress?	MC 2 NOT MC 2	O N/A	4.5.9	[]Yes[]No
IER 6	Calling party number?	MC 2 NOT MC 2	O N/A	4.5.10	[]Yes[]No
IER 7	Calling party subaddress?	MC 2 NOT MC 2	O N/A	4.5.11	[]Yes[]No
IER 8	Cause?		M	4.5.12	[]Yes[]No
IER 9	Channel identification?		M	4.5.13	[]Yes[]No
IER 10	Congestion level?		N/A 3 (note 1)	4.5.14, 7.1.5.7	
IER 11	Date/time?		0	4.6.1	[]Yes[]No
IER 12	Display? (note 2)		0	4.5.15	[]Yes[]No
IER 13	Facility?		N/A 3	4.6.2	
IER 14	High layer compatibility?	MC 2.7 NOT MC 2.7	O N/A	4.5.16, annex B	[]Yes []No
IER 15	Keypad facility?		0	4.5.17	[]Yes[]No
IER 16	Low layer compatibility?	MC 2.7 NOT MC 2.7	O N/A	4.5.18, annex B	[]Yes[]No
	(c	ontinued)			

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

Item	Information element Does the implementation support the interpretation of	Conditions for status	Status	Reference	Support
IER 17	More data?		N/A 3 (note 1)	4.5.19, 7.1.4.4, 7.1.5.6	
IER 18	Network specific facilities?	MC 9 NOT MC 9	M N/A	4.5.20	[]Yes []No
IER 19	Notification indicator?		0	4.5.21	[]Yes []No
IER 20	Progress indicator?		M	4.5.22	[]Yes []No
IER 21	Repeat indicator?		N/A 3	4.5.23	
IER 22	Restart indicator?		M	4.5.24	[]Yes[]No
IER 23	Segmented message?	MC 13 NOT MC 13	M N/A	4.5.25	[]Yes[]No
IER 24	Sending complete?	MC 2.2 NOT MC 2.2	M O	4.5.26, 5.2.1	[]Yes[]No
IER 25	Shift?		М	4.5.3, 4.5.4	[]Yes[]No
IER 26	Signal?		0	4.5.27, 7.1.2	[]Yes []No
IER 27	Transit network selection?		N/A 1	4.5.28	
IER 28	User-user?		N/A 3 (note 1)	4.5.29	
NOTE 1:	These capabilities appear in the PICS proform		ary service.	Гhe designation of r	not applicable to
NOTE 2:	ETSI networks is therefore only in the context The Display information element can be used		o-user signa	lling.	

Comments:		

6.5.5.2 User to network (transmitted by the user)

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

Item	Information element Does the implementation support the inclusion of	Conditions for status	Status	Reference	Support
IET 1	Bearer capability?		M	4.5.5	[]Yes[]No
IET 2	Call identity?		N/A 3	4.5.6, 5.6	
IET 3	Call state?		M	4.5.7	[]Yes[]No
IET 4	Called party number?	MC 1 NOT MC 1	O N/A	4.5.8	[]Yes[]No
IET 5	Called party subaddress?	MC 1 NOT MC 1	O N/A	4.5.9	[]Yes[]No
IET 6	Calling party number?	MC 1 NOT MC 1	O N/A	4.5.10	[]Yes[]No
IET 7	Calling party subaddress?	MC 1 NOT MC1	O N/A	4.5.11	[]Yes[]No
IET 8	Cause?		M	4.5.12	[]Yes []No
IET 9	Channel identification?		0	4.5.13	[]Yes[]No
IET 10	Congestion level?		N/A 3 (note 1)	4.5.14, 7.1.5.7	
IET 11	Date/time?		N/A 1	4.6.1	
IET 12	Display?		N/A 1	4.5.15	
IET 13	Facility?		N/A 3	4.6.2, 7.1.2	
IET 14	High layer compatibility?	MC 1 NOT MC 1	O N/A	4.5.16	[]Yes[]No
IET 15	Keypad facility?		0	4.5.17	[]Yes []No
IET 16	Low layer compatibility?		0	4.5.18, 3.1.4	[]Yes[]No
IET 17	More data?		N/A 3 (note 1)	4.5.19, 7.1.4.4, 7.1.5.6	
	(c	continued)			

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

Item	Information element Does the implementation support the inclusion of	Conditions for status	Status	Reference	Support
IET 18	Network specific facilities?	MC 9 NOT MC 9	M N/A	4.5.20	[]Yes []No
IET 19	Notification indicator?		0	4.5.21	[]Yes []No
IET 20	Progress indicator? (note 2)		0	4.5.22	[]Yes[]No
IET 21	Repeat indicator?		N/A 3	4.5.23	
IET 22	Restart indicator?		М	4.5.24	[]Yes[]No
IET 23	Segmented message?	MC 13 NOT MC 13	M N/A	4.5.25	[]Yes []No
IET 24	Sending complete?		0	4.5.26, 5.1.3	[]Yes []No
IET 25	Shift?		0	4.5.3, 4.5.4	[]Yes[]No
IET 26	Signal?		N/A 1	4.5.27, 7.1.2	
IET 27	Transit network selection?	MC 1.4 NOT MC 1.4	M N/A	4.5.28	[]Yes[]No
IET 28	User-user?		N/A 3 (note 1)	4.5.29	
NOTE 1: NOTE 2:	These capabilities appear in the PICS proform ETSI networks is therefore only in the context Mandatory if the IUT can perform interworking	of basic call control.	ntary service.	Γhe designation of	not applicable to

Comments:		

6.5.6 Timers

Table 8: Timers

Item	Timer Does the implementation support	Conditions for status	Status	Reference	Support
TM 1	T301?	MC 1 NOT MC 1	O N/A	Table 9.2	[]Yes[]No
TM 2	T302?	MC 2.2 NOT MC 2.2	M N/A	Table 9.2	[]Yes[]No
TM 3	T303?	MC 1 NOT MC 1	O N/A	Table 9.2	[]Yes[]No
TM 4	T304?	MC 1.2 NOT MC 1.2	O N/A	Table 9.2	[]Yes[]No
TM 5	T305?		M	Table 9.2	[]Yes[]No
TM 6	T306		N/A 2	Table 9.2	
TM 7	T307		N/A 2	Table 9.2	
TM 8	T308?		M	Table 9.2	[]Yes[]No
TM 9	T309?		0	Table 9.2	[]Yes[]No
TM 10	T310?	MC 1 NOT MC 1	O N/A	Table 9.2	[]Yes[]No
TM 11	T312		N/A 2	Table 9.2	
TM 12	T313?	MC 2 NOT MC 2	M N/A	Table 9.2	[]Yes[]No
TM 13	T314?	MC 13 NOT MC 13	M N/A	Table 9.2	[]Yes []No
TM 14	T316?		М	Table 9.2	[]Yes []No
TM 15	T317?		M	Table 9.2	[]Yes[]No
TM 16	T318?		N/A 3	Table 9.2	
TM 17	T319?		N/A 3	Table 9.2	
	((continued)			

Table 8 (concluded): Timers

Item	Timer Does the implementation support	Conditions for status	Status	Reference	Support
TM 18	T321?		N/A 3	Table 9.2	
TM 19	T322?	MC 7.2 NOT MC 7.2	M N/A	Table 9.2	[]Yes[]No

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?	М		[]Yes[]No
	1. CCITT	0	0	[]Yes []No
	2. International	N/A 3	1	[]. 66 []. 16
	3. National	N/A 3	2	
	4. Network	N/A 3	3	
IS 1.2	Octet 3 bits 1 to 5, information transfer capability?	M		[]Yes []No
	1. Speech	0	0	[]Yes []No
	Unrestricted digital	0	8	[]Yes[]No
	3. Restricted digital	N/A 3	9	
	4. 3,1 kHz audio	0	16	[]Yes[]No
	5. 7 kHz audio	0	17	[]Yes[]No
	6. Video	0	24	[]Yes[]No
IS 1.3	Octet 4 bits 6 and 7, transfer mode?	М		[]Yes []No
	1. Circuit	0	0	[]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		[]Yes[]No
	1. 64 kbit/s	0	16	[]Yes []No
	2. 2 x 64 kbit/s	0	17	[]Yes[]No
	3. 384 kbit/s	0	19	[]Yes[]No
	4. 1 536 kbit/s	0	21	[]Yes[]No
	5. 1 920 kbit/s	0	23	[]Yes []No
IS 1.5	Octet 4a bits 5 to 7, structure?	0		[]Yes []No
	1. Default	0	0	[]Yes []No
	2. 8 kHz integrity	0	1	[]Yes []No
	Service data unit integrity	0	4	[]Yes[]No
	4. Unstructured	0	7	[]Yes []No
IS 1.6	Octet 4a bits 3 and 4, configuration?	0		[]Yes[]No
	1. Point-to-point	0	0	[]Yes[]No
IS 1.7	Octet 4a bits 1 and 2, establishment?	0		[]Yes[]No
	1. Demand	0	0	[]Yes []No

Table 9 (continued): 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 1.8	Octet 4b bits 6 and 7, symmetry?	0		[]Yes []No	
	Bi-directional symmetric	0	0	[]Yes[]No	
IS 1.9	Octet 4b bits 1 to 5, information transfer rate, destination to origination?	0		[]Yes[]No	
	1. 64 kbit/s	0	16	[]Yes []No	
	2. 2 x 64 kbit/s	0	17	[]Yes[]No	
	3. 384 kbit/s	0	19	[]Yes[]No	
	4. 1 536 kbit/s	0	21	[]Yes[]No	
	5. 1 920 kbit/s	0	23	[]Yes []No	
IS 1.10	Octet 5 bits 1 to 5, user information layer 1 protocol?	0		[]Yes []No	
	1. V.110/X.30	0	1	[]Yes []No	
	2. G.711 μ-law	N/A 3	2		
	3. G.711 A-law	0	3	[]Yes[]No	
	4. G.721 32 kbit/s ADPCM and I.460	0	4	[]Yes[]No	
	5. G.722 and G.725 7 kHz audio	0	5	[]Yes[]No	
	6. G.7xx 384 kbit/s video	0	6	[]Yes[]No	
	7. Non-CCITT rate adaption	0	7	[]Yes[]No	
	8. V.120	N/A 3	8		
	9. X.31 HDLC	0	9	[]Yes []No	
IS 1.11	Octet 5a bit 7, synchronous/asynchronous?	0		[]Yes[]No	
	1. Synchronous	0	0	[]Yes []No	
	2. Asynchronous	0	1	[]Yes []No	
IS 1.12	Octet 5a bit 6, negotiation indicator?	0		[]Yes[]No	
	In-band negotiation not possible	0	0	[]Yes []No	
	2. In-band negotiation possible	0	1	[]Yes[]No	
	(continued)				

Table 9 (continued): 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 1.13	Octet 5a bits 1 to 5, user rate?	0		[]Yes []No
	1. Rate indicated by E bits (I.460)	0	0	[]Yes []No
	2. 0,6 kbit/s CCITT V.6 and X.1	0	1	[]Yes []No
	3. 1,2 kbit/s CCITT V.6	0	2	[]Yes []No
	4. 2,4 kbit/s CCITT V.6 and X.1	0	3	[]Yes[]No
	5. 3,6 kbit/s CCITT V.6	0	4	[]Yes[]No
	6. 4,8 kbit/s CCITT V.6 and X.1	0	5	[]Yes[]No
	7. 7,2 kbit/s CCITT V.6	0	6	[]Yes[]No
	8. 8 kbit/s CCITT I.460	0	7	[]Yes[]No
	9. 9,6 kbit/s CCITT V.6 and X.1	0	8	[]Yes[]No
	10. 14,4 kbit/s CCITT V.6	0	9	[]Yes[]No
	11. 16 kbit/s CCITT I.460	0	10	[]Yes []No
	12. 19,2 kbit/s CCITT V.6	0	11	[]Yes[]No
	13. 32 kbit/s CCITT I.460	0	12	[]Yes[]No
	14. 48 kbit/s CCITT V.6 and X.1	0	14	[]Yes []No
	15. 56 kbit/s CCITT V.6	0	15	[]Yes[]No
	16. 64 kbit/s CCITT X.1	0	16	[]Yes []No
	17. 0,1345 kbit/s CCITT X.1	0	21	[]Yes []No
	18. 0,100 kbit/s CCITT X.1	0	22	[]Yes[]No
	19. 0,075/1,2 kbit/s CCITT V.6 and X.1	0	23	[]Yes[]No
	20. 1,2/0,075 kbit/s CCITT V.6 and X.1	0	24	[]Yes[]No
	21. 0,050 kbit/s CCITT V.6 and X.1	0	25	[]Yes[]No
	22. 0,075 kbit/s CCITT V.6 and X.1	0	26	[]Yes[]No
	23. 0,110 kbit/s CCITT V.6 and X.1	0	27	[]Yes[]No
	24. 0,150 kbit/s CCITT V.6 and X.1	0	28	[]Yes[]No
	25. 0,200 kbit/s CCITT V.6 and X.1	0	29	[]Yes[]No
	26. 0,300 kbit/s CCITT V.6 and X.1	0	30	[]Yes[]No
	27. 12 kbit/s CCITT V.6	0	31	[]Yes[]No
	Octet 5b, case 1 (note)			
IS 1.14	Octet 5b bits 6 and 7, intermediate rate?	0		[]Yes []No
	1. Not used	0	0	[]Yes []No
	2. 8 kbit/s	Ö	1	[]Yes []No
	3. 16 kbit/s	o	2	[]Yes []No
	4. 32 kbit/s	Ō	3	[]Yes []No
IS 1.15	Octet 5b bit 5, network independent clock (NIC) on transmission?	0		[]Yes []No
	Not required to send data with NIC	0	0	[]Yes []No
	Required to send data with NIC	0	1	[]Yes []No
S 1.16	Octet 5b bit 4, NIC on reception?	0		[]Yes []No
	Cannot accept data with NIC	0	0	[]Yes []No
	2. Can accept data with NIC	0	1	[]Yes[]No

Item	Information element parts Does the information element include	Status	Values	Support
10.4				
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?	0		[]Yes []No
	Not required to send data with flow control	0	0	[]Yes []No
	2. Required to send data with flow control	0	1	[]Yes []No
IS 1.18	Octet 5b bit 2, flow control on reception?	0		[]Yes []No
	Cannot accept data with flow control mechanism	0	0	[]Yes []No
	2. Can accept data with flow control mechanism	0	1	[]Yes []No
	Octet 5b, case 2 (note)			
IS 1.19	Octet 5b bit 7, rate adaption header?	0		[]Yes []No
	Header not included	0	0	[]Yes []No
	2. Header included	0	1	[]Yes[]No
IS 1.20	Octet 5b bit 6, multiple frame establishment (MFE) support in data link?	0		[]Yes[]No
	MFE not supported, only UI frames allowed	0	0	[]Yes []No
	2. MFE supported	0	1	[]Yes []No
IS 1.21	Octet 5b bit 5, mode of operation?	0		[]Yes []No
	Bit transparent mode	0	0	[]Yes[]No
	Protocol sensitive mode	0	1	[]Yes []No
IS 1.22	Octet 5b bit 4, logical link identifier (LLI) negotiation?	0		[]Yes[]No
	1. Default LLI = 256 only	0	0	[]Yes []No
	2. Full protocol negotiation	0	1	[]Yes []No
IS 1.23	Octet 5b bit 3, assignor/assignee?	0		[]Yes[]No
	Message originator is "default assignee"	0	0	[]Yes[]No
	Message originator is "assignor only"	0	1	[]Yes []No
IS 1.24	Octet 5b bit 2, in-band/out-band negotiation?	0		[]Yes[]No
	Negotiation performed with USER INFORMATION messages	0	0	[]Yes []No
	2. Negotiation performed in-band	0	1	[]Yes []No
IS 1.25	Octet 5c bits 6 and 7, number of stop bits?	0		[]Yes[]No
	1. Not used	0	0	[]Yes []No
	2. 1 bit	0	1	[]Yes []No
	3. 1,5 bits	0	2	[]Yes[]No
	4. 2 bits	0	3	[]Yes[]No

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 1.26	Octet 5c bits 4 and 5, number of data bits excluding parity?	0		[]Yes []No
	1. Not used	0	0	[]Yes []No
	2. 5 bits	0	1	[]Yes []No
	3. 7 bits	0	2	[]Yes []No
	4. 8 bits	0	3	[]Yes[]No
IS 1.27	Octet 5c bits 1 to 3, parity information?	0		[]Yes[]No
	1. Odd	0	0	[]Yes []No
	2. Even	0	2	[]Yes []No
	3. None	o	0	[]Yes[]No
	4. Forced to 0	0	4	[]Yes[]No
	5. Forced to 1	0	5	[]Yes[]No
IS 1.28	Octet 5d bit 7, duplex mode?	0		[]Yes []No
	1. Half duplex	0	0	[]Yes []No
	2. Full duplex	0	1	[]Yes []No
IS 1.29	Octet 5d bits 1 to 6, modem type?	0		[]Yes[]No
	1. V.21	0	33	[]Yes[]No
	2. V.22	0	34	[]Yes []No
	3. V.22 bis	0	35	[]Yes []No
	4. V.23	0	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	0	41	[]Yes[]No
	10. V.27 ter	0	42	[]Yes[]No
	11. V.29	0	43	[]Yes []No
	12. V.32	0	43	[]Yes []No
IS 1.30	Octet 6 bits 1 to 5, user information layer 2 protocol?	0	177	[]Yes[]No
	1. Q.921	0	2	[]Yes []No
	2. X.25 link level	0	6	[]Yes[]No
IS 1.31	Octet 7 bits 1 to 5, user information layer 3 protocol?	0		[]Yes[]No
	1. Q.931	0	2	[]Yes[]No
	2. X.25 packet layer	0	6	[]Yes[]No
	(continued)			

Item	Information element parts Does the information element include	Status	Values	Support
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		[]Yes []No
	Interface implicitly identified	М	0	[]Yes[]No
	2. Interface explicitly identified	N/A 3	1	
IS 2.2	Octet 3 bit 6, interface type?	М		[]Yes []No
	Primary rate interface	0	1	[]Yes[]No
IS 2.3	Octet 3 bit 4, preferred/exclusive?	М		[]Yes []No
	Indicated channel preferred	0	0	[]Yes[]No
	Exclusive, indicated channel only accepted	o	1	[]Yes[]No
IS 2.4	Octet 3 bit 3, D-channel indicator?	M		[]Yes []No
	Channel not the D-channel	0	0	[]Yes[]No
	2. Channel is the D-channel	0	1	[]Yes[]No
IS 2.5	Octet 3 bits 1 and 2. information channel selection?	M		[]Yes []No
	1. No channel	0	0	[]Yes[]No
	2. B1 channel	o	1	[]Yes []No
	3. B2 channel	o	2	[]Yes []No
	4. Any channel	ō	3	[]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		[]Yes []No
	CCITT standardized	0	0	[]Yes[]No
	2. International	0	1	[]Yes []No
	3. National	0	2	[]Yes []No
	4. Network	0	3	[]Yes[]No
IS 2.8	Octet 3.2, bit 5, number/map?	М		[]Yes[]No
	Channel is indicated by the number in the following octet	M	0	[]Yes []No
	Channel is indicated by the slot map	N/A 3	1	
IS 2.9	Octet 3.2, bits 1 to 4, channel type/map element type	М		[]Yes []No
	1. B-channel units	0	3	[]Yes[]No
	2. H0-channel units	0	6	[]Yes []No
	3. H11-channel units	0	8	[]Yes []No
	4. H12-channel units	0	9	[]Yes[]No
IS 2.10	Octet 3.3, channel number/slot map	М		[]Yes []No
	1. Channel number	M		[]Yes[]No
	2. Slot map	N/A 3		[]Yes[]No
	(continued)	1		<u> </u>

Item	Information element parts Does the information element include	Status	Values	Support
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		[]Yes []No
	1. CCITT standardized	0	0	[]Yes []No
	2. International	0	1	[]Yes[]No
	3. National	0	2	[]Yes[]No
	4. Network	0	3	[]Yes[]No
IS 3.2	Octet 4 bits 1 to 7, HL characteristics?	M		[]Yes []No
	1. Telephony	0	1	[]Yes []No
	2. Fax group 2/3 (F.182)	0	4	[]Yes[]No
	3. Fax group 4 class 1 (F.184)	0	33	[]Yes []No
	4. Teletex, F.230, Fax group 4, classes II & III (F.184)	0	36	[]Yes[]No
	5 Teletex, basic and processable mode (F.220)	0	40	[]Yes[]No
	6. Teletex basic mode (F.200)	0	49	[]Yes[]No
	7. Syntax based videotex (F.300, T.102)	0	50	[]Yes[]No
	8. International videotex interworking via gateways or			
	interworking units (F.300, T.101)	0	51	[]Yes []No
	9. Telex (F.60)	0	53	[]Yes []No
	10. MHS (X.400)	0	56	[]Yes []No
	11. OSI application (X.200)	0	65	[]Yes []No
	12. Maintenance	0	94	[]Yes []No
	13. Management	0	95	[]Yes[]No
IS 3.3	Octet 4a bits 1 to 7, extended HL characteristics?	0		[]Yes []No
	1. Telephony	0	1	[]Yes[]No
	2. Fax group 2/3 (F.182)	0	4	[]Yes []No
	3. Fax group 4 class 1 (F.184)	0	33	[]Yes []No
	4. Teletex, F.230, Fax group 4, classes II & III (F.184)	0	36	[]Yes[]No
	5 Teletex, basic and processable mode (F.220)	0	40	[]Yes []No
	6. Teletex basic mode (F.200)	0	49	[]Yes []No
	7. Syntax based videotex (F.300, T.102)	0	50	[]Yes []No
	8. International videotex interworking via gateways or			
	interworking units (F.300, T.101) 9. Telex (F.60)	0	51	[]Yes []No
		_	53	[]Yes []No
	10. MHS (X.400)	0	56	[]Yes []No
	11. OSI application (X.200)	U	65	[]Yes []No
	(continued)			

	Information element parts Does the information element include	Status	Values	Support
IS 4	Low layer compatibility (ETS 300 102-1 [1], table 4-18, figure	e 4-26)		
IS 4.1	Octet 3 bits 6 and 7, coding standard?	M		[]Yes[]No
	CCITT standardized	0	0	[]Yes []No
	2. International	0	1	[]Yes[]No
	3. National			
	4. Network	0	2 3	[]Yes []No
		U	3	[]Yes []No
IS 4.2	Octet 3 bits 1 to 5, information transfer capability?	М		[]Yes []No
	1. Speech	0	0	[]Yes[]No
	Unrestricted digital	0	8	[]Yes []No
	3. Restricted digital	0	9	[]Yes[]No
	4. 3,1 kHz audio	0	16	[]Yes[]No
	5. 7 kHz audio	0	17	[]Yes[]No
	6. Video	0	24	[]Yes[]No
IS 4.3	Octet 3a bit 7, negotiation indicator?	0		[]Yes []No
	Outband negotiation not possible	0	0	[]Yes []No
		0	1	
	Outband negotiation possible			[]Yes []No
IS 4.4	Octet 4 bits 6 and 7, transfer mode?	М		[]Yes []No
	1. Circuit		0	[]Yes[]No
IS 4.5	Octet 4 bits 1 to 5, information transfer rate, origination to destination if octet 4b is present, bi-directional otherwise?	М		[]Yes[]No
	1. 64 kbit/s	0	16	[]Yes[]No
	2. 2 x 64 kbit/s	0	17	[]Yes []No
	3. 384 kbit/s	0	19	[]Yes []No
	4. 1 536 kbit/s	0	21	[]Yes[]No
	5. 1 920 kbit/s	0	23	[]Yes[]No
IS 4.6	Octet 4a bits 5 to 7, structure?	0		[]Yes[]No
	1. Default	0	0	[]Yes []No
	2. 8 kHz integrity	O	1	[]Yes []No
	3. Service data unit integrity	Ö	4	[]Yes []No
	4. Unstructured	0	7	[]Yes[]No
			'	
IS 4.7	Octet 4a bits 3 and 4, configuration?	0		[]Yes []No
	1. Point-to-point	0	0	[]Yes []No
IS 4.8	Octet 4a bits 1 and 2, establishment?	0		[]Yes[]No
	1. Demand	0	0	[]Yes []No

Item	Information element parts Does the information element include	Status	Values	Support
IS 4	Low layer compatibility (ETS 300 102-1 [1], table 4-18, figure	4-26)		
IS 4.9	Octet 4b bits 6 and 7, symmetry?	0		[]Yes[]No
	Bi-directional symmetric	0	0	[]Yes []No
IS 4.10	Octet 4b bits 1 to 5, information transfer rate, destination to origination?	0		[]Yes []No
	1. 64 kbit/s	0	16	[]Yes[]No
	2. 2 x 64 kbit/s	0	17	[]Yes []No
	3. 384 kbit/s	0	19	[]Yes []No
	4. 1 536 kbit/s	0	21	[]Yes[]No
	5. 1 920 kbit/s	0	23	[]Yes[]No
IS 4.11	Octet 5 bits 1 to 5, user information layer 1 protocol?	0		[]Yes []No
	1. V.110/X.30	0	1	[]Yes []No
	2. G.711 μ-law	0	2	[]Yes []No
	3. G.711 A-law	0	3	[]Yes []No
	4. G.721 32 kbit/s ADPCM and I.460	0	4	[]Yes []No
	5. G.722 and G.725 7 kHz audio	0	5	[]Yes []No
	6. G.7xx 384 kbit/s video	0	6	[]Yes[]No
	7. Non-CCITT rate adaption	0	7	[]Yes []No
	8. V.120	0	8	[]Yes[]No
	9. X.31 HDLC	0	9	[]Yes[]No
IS 4.12	Octet 5a bit 7, synchronous/asynchronous?	0		[]Yes []No
	1. Synchronous	0	0	[]Yes[]No
	2. Asynchronous	0	1	[]Yes []No
IS 4.13	Octet 5a bit 6, negotiation indicator?	0		[]Yes[]No
	In-band negotiation not possible	0	0	[]Yes[]No
	In-band negotiation possible	0	1	[]Yes[]No
	(continued)			

IS 4.14	Low layer compatibility (ETS 300 102-1 [1], table 4-18, fig Octet 5b, case 1 (note) Octet 5a bits 1 to 5, user rate? 1. Rate indicated by E bits (I.460) 2. 0,6 kbit/s CCITT V.6 and X.1 3. 1,2 kbit/s CCITT V.6 4. 2,4 kbit/s CCITT V.6 and X.1 5. 3,6 kbit/s CCITT V.6 6. 4,8 kbit/s CCITT V.6 8. 8 kbit/s CCITT V.6 9. 9,6 kbit/s CCITT I.460 9. 9,6 kbit/s CCITT V.6 and X.1	0 0 0 0 0 0 0 0 0 0 0 0	0 1 2 3 4 5	[]Yes []No []Yes []No []Yes []No []Yes []No []Yes []No []Yes []No
S 4.14	1. Rate indicated by E bits (I.460) 2. 0,6 kbit/s CCITT V.6 and X.1 3. 1,2 kbit/s CCITT V.6 4. 2,4 kbit/s CCITT V.6 and X.1 5. 3,6 kbit/s CCITT V.6 6. 4,8 kbit/s CCITT V.6 8. 8 kbit/s CCITT V.6 9. 9,6 kbit/s CCITT I.460 9. 9,6 kbit/s CCITT V.6 and X.1	0 0 0 0 0 0 0 0 0 0	1 2 3 4	[]Yes []No []Yes []No []Yes []No []Yes []No []Yes []No
S 4.14	1. Rate indicated by E bits (I.460) 2. 0,6 kbit/s CCITT V.6 and X.1 3. 1,2 kbit/s CCITT V.6 4. 2,4 kbit/s CCITT V.6 and X.1 5. 3,6 kbit/s CCITT V.6 6. 4,8 kbit/s CCITT V.6 and X.1 7. 7,2 kbit/s CCITT V.6 8. 8 kbit/s CCITT I.460 9. 9,6 kbit/s CCITT V.6 and X.1	0 0 0 0 0 0 0 0 0 0	1 2 3 4	[]Yes []No []Yes []No []Yes []No []Yes []No []Yes []No
S 4.14	1. Rate indicated by E bits (I.460) 2. 0,6 kbit/s CCITT V.6 and X.1 3. 1,2 kbit/s CCITT V.6 4. 2,4 kbit/s CCITT V.6 and X.1 5. 3,6 kbit/s CCITT V.6 6. 4,8 kbit/s CCITT V.6 and X.1 7. 7,2 kbit/s CCITT V.6 8. 8 kbit/s CCITT I.460 9. 9,6 kbit/s CCITT V.6 and X.1	0 0 0 0 0 0 0 0 0 0	1 2 3 4	[]Yes []No []Yes []No []Yes []No []Yes []No []Yes []No
	2. 0,6 kbit/s CCITT V.6 and X.1 3. 1,2 kbit/s CCITT V.6 4. 2,4 kbit/s CCITT V.6 and X.1 5. 3,6 kbit/s CCITT V.6 6. 4,8 kbit/s CCITT V.6 and X.1 7. 7,2 kbit/s CCITT V.6 8. 8 kbit/s CCITT I.460 9. 9,6 kbit/s CCITT V.6 and X.1	0 0 0 0 0 0	1 2 3 4	[]Yes []No []Yes []No []Yes []No []Yes []No
	3. 1,2 kbit/s CCITT V.6 4. 2,4 kbit/s CCITT V.6 and X.1 5. 3,6 kbit/s CCITT V.6 6. 4,8 kbit/s CCITT V.6 and X.1 7. 7,2 kbit/s CCITT V.6 8. 8 kbit/s CCITT I.460 9. 9,6 kbit/s CCITT V.6 and X.1	0 0 0 0 0	2 3 4	[]Yes []No []Yes []No []Yes []No
	4. 2,4 kbit/s CCITT V.6 and X.1 5. 3,6 kbit/s CCITT V.6 6. 4,8 kbit/s CCITT V.6 and X.1 7. 7,2 kbit/s CCITT V.6 8. 8 kbit/s CCITT I.460 9. 9,6 kbit/s CCITT V.6 and X.1	0 0 0	3 4	[]Yes []No []Yes []No
	5. 3,6 kbit/s CCITT V.6 6. 4,8 kbit/s CCITT V.6 and X.1 7. 7,2 kbit/s CCITT V.6 8. 8 kbit/s CCITT I.460 9. 9,6 kbit/s CCITT V.6 and X.1	0 0 0	4	[]Yes[]No
	6. 4,8 kbit/s CCITT V.6 and X.1 7. 7,2 kbit/s CCITT V.6 8. 8 kbit/s CCITT I.460 9. 9,6 kbit/s CCITT V.6 and X.1	0		
	7. 7,2 kbit/s CCITT V.6 8. 8 kbit/s CCITT I.460 9. 9,6 kbit/s CCITT V.6 and X.1	0	5	
	7. 7,2 kbit/s CCITT V.6 8. 8 kbit/s CCITT I.460 9. 9,6 kbit/s CCITT V.6 and X.1	_	_	[]Yes []No
	8. 8 kbit/s CCITT I.460 9. 9,6 kbit/s CCITT V.6 and X.1		6	[]Yes []No
	9. 9,6 kbit/s CCITT V.6 and X.1	10	7	[]Yes []No
		o	8	[]Yes[]No
	10. 14,4 kbit/s CCITT V.6	ő	9	[]Yes[]No
	11. 16 kbit/s CCITT I.460	0	10	[]Yes[]No
	12. 19,2 kbit/s CCITT V.6	ő	11	[]Yes[]No
	13. 32 kbit/s CCITT I.460	0	12	[]Yes[]No
	14. 48 kbit/s CCITT V.6 and X.1	0	14	[]Yes[]No
	15. 56 kbit/s CCITT V.6	0	15	[]Yes[]No
	16. 64 kbit/s CCITT X.1	0	16	
	17. 0,1345 kbit/s CCITT X.1	0	21	[]Yes[]No
	· · · · · · · · · · · · · · · · · · ·	0	22	[]Yes[]No
	18. 0,100 kbit/s CCITT X.1	_		[]Yes []No
	19. 0,075/1,2 kbit/s CCITT V.6 and X.1	0	23	[]Yes []No
	20. 1,2/0,075 kbit/s CCITT V.6 and X.1	0	24	[]Yes []No
	21. 0,050 kbit/s CCITT V.6 and X.1	0	25	[]Yes []No
	22. 0,075 kbit/s CCITT V.6 and X.1	0	26	[]Yes[]No
	23. 0,110 kbit/s CCITT V.6 and X.1	0	27	[]Yes []No
	24. 0,150 kbit/s CCITT V.6 and X.1	0	28	[]Yes []No
	25. 0,200 kbit/s CCITT V.6 and X.1	0	29	[]Yes []No
	26. 0,300 kbit/s CCITT V.6 and X.1	0	30	[]Yes []No
	27. 12 kbit/s CCITT V.6	0	31	[]Yes[]No
S 4.15	Octet 5b bits 6 and 7, V.110/X.30 rate adaption?	0		[]Yes []No
	1. Not used	0	0	[]Yes[]No
	2. 8 kbit/s	0	1	[]Yes []No
	3. 16 kbit/s	0	2	[]Yes[]No
	4. 32 kbit/s	0	3	[]Yes[]No
S 4.16	Octet 5b bit 5, network independent clock (NIC) on transmission?	0		[]Yes []No
	Not required to send data with NIC	0	0	[]Yes[]No
	Required to send data with NIC	o	1	[]Yes[]No
S 4.17	Octet 5b bit 4, NIC on reception?	0		[]Yes []No
	Cannot accept data with NIC	0	0	[]Yes []No
	2. Can accept data with NIC	0	1	[]Yes[]No

Item	Information element parts Does the information element include	Status	Values	Support
IS 4	Low layer compatibility (ETS 300 102-1 [1], table 4-18, figure 4	-26)		
S 4.18	Octet 5b bit 3, flow control on transmission?	0		[]Yes []No
	Not required to send data with flow control	0	0	[]Yes []No
	2. Required to send data with flow control	0	1	[]Yes []No
IS 4.19	Octet 5b bit 2, flow control on reception?	0		[]Yes []No
	Cannot accept data with flow control mechanism	0	0	[]Yes []No
	Can accept data with flow control mechanism	0	1	[]Yes []No
	Octet 5b, case 2 (note)			
IS 4.20	Octet 5b bit 7, V.120 rate adaption header?	0		[]Yes[]No
	Header not included	0	0	[]Yes []No
	Header included	0	1	[]Yes []No
IS 4.21	Octet 5b bit 6, multiple frame establishment (MFE) support in data link?	0		[]Yes []No
	MFE not supported, only UI frames allowed	0	0	[]Yes[]No
	2. MFE supported	0	1	[]Yes []No
IS 4.22	Octet 5b bit 5, mode of operation?	0		[]Yes[]No
	Bit transparent mode	0	0	[]Yes []No
	2. Protocol sensitive mode	0	1	[]Yes []No
IS 4.23	Octet 5b bit 4, logical link identifier (LLI) negotiation?	0		[]Yes[]No
	1. Default LLI = 256 only	0	0	[]Yes []No
	2. Full protocol negotiation	0	1	[]Yes[]No
IS 4.24	Octet 5b bit 3, assignor/assignee?	0		[]Yes []No
	1. Message originator is "default assignee"	0	0	[]Yes []No
	Message originator is "assignor only"	0	1	[]Yes []No
IS 4.25	Octet 5b bit 2, in-band/out-band negotiation?	0		[]Yes []No
	Negotiation performed with USER INFORMATION	1		[]Yes []No
	messages 2. Negotiation performed in-band	0	0	[]Yes[]No
IS 4.26	Octet 5c bits 6 and 7, number of stop bits?	0		[]Yes[]No
	1 Not used			LIVes LINE
	1. Not used 2. 1 bit	0	0	[]Yes []No []Yes []No
	3. 1,5 bits	0	2	[]Yes[]No
	4. 2 bits	0	3	[]Yes []No
	(continued)			

Item	Information element parts Does the information element include	Status	Values	Support			
10.1							
IS 4	Low layer compatibility (ETS 300 102-1 [1], table 4-18, figure 4-26)						
IS 4.27	Octet 5c bits 4 and 5, number of data bits excluding parity?	0		[]Yes []No			
	1. Not used	0	0	[]Yes[]No			
	2. 5 bits	0	1	[]Yes[]No			
	3. 7 bits	0	2	[]Yes []No			
	4. 8 bits	0	3	[]Yes[]No			
IS 4.28	Octet 5c bits 1 to 3, parity information?	0		[]Yes []No			
	1. Odd	0	0	[]Yes []No			
	2. Even	0	2	[]Yes []No			
	3. None	0	3	[]Yes[]No			
	4. Forced to 0	O	4	[]Yes[]No			
	5. Forced to 1	0	5	[]. 55 []. 10			
IS 4.29	Octet 5d bit 7, duplex mode?	0		[]Yes []No			
	1. Half duplex	0	0	[]Yes []No			
	2. Full duplex	0	1	[]Yes[]No			
IS 4.30	Octet 5d bits 1 to 6, modem type?	0		[]Yes[]No			
	1. V.21	0	33	[]Yes []No			
	2. V.22	0	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	Ö	39	[]Yes[]No			
	8. V.27	0	40	[]Yes []No			
	9. V.27 bis	0	41	[]Yes[]No			
	10. V.27 ter	0	42	[]Yes[]No			
	10. V.27 tel 11. V.29	0	42	[]Yes[]No			
	11. V.29 12. V.32	0	43	[]Yes[]No			
IS 1 31				[]Yes []No			
IS 4.31	Octet 6 bits 1 to 5, user information layer 2 protocol?	O					
	1. Basic mode ISO 1745	0	1	[]Yes[]No			
	2. Q.921	0	2	[]Yes []No			
	3. X.25 link level	0	6	[]Yes []No			
	4. X.25 multi-link	0	7	[]Yes []No			
	5. Extended LAPB for half duplex (T.71)	0	8	[]Yes []No			
	6. HDLC ARM (ISO 4335)	0	9	[]Yes []No			
	7. HDLC NRM (ISO 4335)	0	10	[]Yes []No			
	8. HDLC ABM (ISO 4335)	0	11	[]Yes[]No			
	9. LAN LLC ISO 8802/2	0	12	[]Yes[]No			
	10. CCITT X.75 single link procedure	0	13	[]Yes[]No			
	11. ISO 7776 DTE-DTE operation	0	17	[]Yes[]No			
	(continued)						

Item	Information element parts Does the information element include	Status	Values	Support
IS 4	Low layer compatibility (ETS 300 102-1 [1], table 4-18, figur	re 4-26)		
IS 4.32	Octet 7 bits 1 to 5, user information layer 3 protocol?	0		[]Yes []No
	1. Q.931	0	2	[]Yes []No
	2. X.25 packet layer	0	6	[]Yes []No
	3. ISO 8208 (X.25 for DTE)	0	7	[]Yes []No
	4. ISO 8348 (OSI connection oriented service)	0	8	[]Yes []No
	5. ISO 8473 (OSI connectionless service)	0	9	[]Yes []No
	6. CCITT T.70 minimum network layer	0	10	[]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:		

Page 47

I-ETS 300 315: December 1994

Annex A (informative): Instructions for completing the PICS proforma

A.1 PICS proforma partitioning

The proforma is divided into two parts:

subclause 6.5: information for conformance testing, must be completed in its entirety when

submitting an implementation for conformance testing;

subclause 6.6: additional information for interoperability, is not required for conformance testing

but is required to be completed in order to assist the establishment of interoperability capabilities between various implementations and interfaces.

A.2 Identification of the implementation

Identification of the Implementation Under Test (IUT) and the system in which it resides (the System Under Test, or SUT) should be filled in so as 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 not one and the same.

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

The System Conformance Statement (SCS) as defined in ISO/IEC 9646-1 [2] is a document supplied by the client or product supplier that summarizes which OSI International Standards, ITU-T (CCITT) Recommendations or other standards are implemented and to which conformance is claimed. The PICS/SCS subclause should describe the relationship of the PICS to the SCS.

A.3 Global statement of conformance

If the answer to the statement in this subclause is "Yes", all subsequent subclauses shall be completed to facilitate selection of test cases for optional functions.

If the answer to the statement in this subclause is "No", all subsequent subclauses should be completed, and all non-supported mandatory capabilities shall be identified and explained.

A.4 Explanation of PICS proforma subclauses

A.4.1 Major capabilities

Each question in this subclause 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 subclauses of the Recommendation. Answering "No" to a particular question in this subclause states that the implementation does not support that function of the protocol.

A.4.2 Subsidiary capabilities

Indicating support for an item in this subclause states that the implementation has the ability to support the special cases of procedures such as call establishment, call clearing, restart, re-arrangements, segmentation, error handling, etc. which require clarification in the PICS. Some of the items are optional and in some cases the option is dependant on the implementation of a major capability. For some the status is conditional based on whether or not a major capability is supported. In these cases, if the major capability is supported, the ability to support the item is mandatory. If not, the ability to support the item element is optional.

A.4.3 Call states

Indicating support for an item in this subclause states that the implementation has the capability to support the call states that may exist on the relevant side of the user-network interface. The status of some call states is conditional based on whether or not a major capability is supported.

I-ETS 300 315: December 1994

A.4.4 Supported messages, received by the IUT

Indicating support for an item in this subclause states that the implementation has the ability to recognize the message listed in that item. The status of some messages is conditional based on whether or not a major capability is supported. In these cases, if the major capability is supported, the ability to recognize the message is either mandatory or, in certain cases, optional. If not, the ability to recognize the message is optional or not applicable. The table also provides the identity value of each message in decimal notation.

A.4.5 Supported messages, transmitted by the IUT

Indicating support for an item in this subclause states that the implementation has the ability of transmitting the message listed in that item. The status of some messages is conditional based on whether or not a major capability is supported. In these cases, if the major capability is supported, the ability to transmit the message is either mandatory or, in certain cases, optional. If not, the ability to transmit the message is optional or not applicable. The table also provides the identity value of each message in decimal notation.

A.4.6 Information elements, received by the IUT

Indicating support for an item in this subclause states that the implementation has the ability to recognize the information elements listed in the items, (codeset 0), contained in the received messages. The status of some information elements is conditional based on whether or not a major capability is supported. In these cases, if the major capability is supported, the ability to interpret the message is either mandatory or, in certain cases, optional. If not, the ability to interpret the message is optional or not applicable. The tabulation indicates the identity value of the information element in decimal notation.

A.4.7 Information elements, transmitted by the IUT

Indicating support for an item in this subclause states that the implementation has the ability to recognize the information elements listed in the items, (codeset 0), contained in the transmitted messages. The status of some information elements is conditional based on whether or not a major capability is supported. In these cases, if the major capability is supported, the ability to transmit the message is either mandatory or, in certain cases, optional. If not, the ability to transmit the message is optional or not applicable. The tabulation indicates the identity value of the information element in decimal notation.

A.4.8 Supported timers

Indicating support for an item in this subclause states that the implementation has a timer that operates in accordance with the description in clause 9 of ETS 300 102-1 [1] and the relevant behaviour in clause 5 of ETS 300 102-1 [1]. Specific values for the timers implemented should be stated in the PIXIT.

A.4.9 Information elements structure

The information requested in subclause 6.6 on information element structure is required for interoperability but is not necessary for the purposes of conformance testing.

Indicating support for an item in this section states that the implementation has the ability to support the contents of the main information elements, particularly those which affect interworking, listed in the items. Additional information is provided against most elements.

History

Document history		
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January 1996	Converted into Adobe Acrobat Portable Document Format (PDF)	