



EUROPEAN
TELECOMMUNICATION
STANDARD

ETS 300 356-34

March 1998

Source: SPS

Reference: DE/SPS-01028-1

ICS: 33.020

Key words: ISDN, SS7, ISUP, supplementary service, PICS

**Integrated Services Digital Network (ISDN);
Signalling System No.7;
ISDN User Part (ISUP) version 2 for the International interface;
Part 34: Protocol Implementation Conformance Statement (PICS)
proforma specification for supplementary services**

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Foreword

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

This ETS is part 34 of a multi-part standard covering the ISDN User Part (ISUP) version 2 for the international interface, as described below:

- Part 1: "Basic services";
- Part 2: "ISDN supplementary services";
- Part 3: "Calling Line Identification Presentation (CLIP) supplementary service";
- Part 4: "Calling Line Identification Restriction (CLIR) supplementary service";
- Part 5: "Connected Line Identification Presentation (COLP) supplementary service";
- Part 6: "Connected Line Identification Restriction (COLR) supplementary service";
- Part 7: "Terminal Portability (TP) supplementary service";
- Part 8: "User-to-User Signalling (UUS) supplementary service";
- Part 9: "Closed User Group (CUG) supplementary service";
- Part 10: "Subaddressing (SUB) supplementary service";
- Part 11: "Malicious Call Identification (MCID) supplementary service";
- Part 12: "Conference call, add-on (CONF) supplementary service";
- Part 14: "Explicit Call Transfer (ECT) supplementary service";
- Part 15: "Diversion supplementary services";
- Part 16: "Call Hold (HOLD) supplementary service";
- Part 17: "Call Waiting (CW) supplementary service";
- Part 18: "Completion of Calls to Busy Subscriber (CCBS) supplementary service";
- Part 19: "Three party (3PTY) supplementary service";
- Part 31: "Protocol Implementation Conformance Statement (PICS) proforma specification for basic services";
- Part 32: "Test Suite Structure and Test Purposes (TSS&TP) specification for basic services";
- Part 33: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for basic services";
- Part 34: "Protocol Implementation Conformance Statement (PICS) proforma specification for supplementary services";**
- Part 35: "Test Suite Structure and Test Purposes (TSS&TP) specification for supplementary services";
- Part 36: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for supplementary services".

NOTE: Part 13 has been withdrawn.

Transposition dates	
Date of adoption of this ETS:	6 March 1998
Date of latest announcement of this ETS (doa):	30 June 1998
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 December 1998
Date of withdrawal of any conflicting National Standard (dow):	31 December 1998

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 telecommunication specification. Such a statement is called an Implementation Conformance Statement (ICS).

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1 Scope

This thirty-fourth part of ETS 300 356 provides the Protocol Implementation Conformance Statement (PICS) proforma for the ISDN User Part (ISUP) version 2 supplementary services defined in ETS 300 356-2 [2] to ETS 300 356-19 [18] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [21].

The supplier of an implementation that is claimed to conform to the ISUP version 2 supplementary service reference specifications [2-18] is required to complete a copy of the PICS proforma provided in annex A.

2 Normative references

This 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 ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

An ETS is referenced where it (partly) overrides the corresponding ITU-T Recommendation or where a corresponding ITU-T Recommendation does not exist (yet). For convenience, the respective section of an ITU-T Recommendation is referenced when it is not overridden by a corresponding ETS.

- [1] ETS 300 356-1 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 1: Basic services [ITU-T Recommendations Q.761 to Q.764 (1993), modified]".
- [2] ETS 300 356-2 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 2: ISDN supplementary services [ITU-T Recommendation Q.730 (1993), modified]".
- [3] ETS 300 356-3 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 3: Calling Line Identification Presentation (CLIP) supplementary service [ITU-T Recommendation Q.731, clause 3 (1993), modified]".
- [4] ETS 300 356-4 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 4: Calling Line Identification Restriction (CLIR) supplementary service [ITU-T Recommendation Q.731, clause 4 (1993), modified]".
- [5] ETS 300 356-5 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 5: Connected Line Identification Presentation (COLP) supplementary service [ITU-T Recommendation Q.731, clause 5 (1993), modified]".
- [6] ETS 300 356-6 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 6: Connected Line Identification Restriction (COLR) supplementary service [ITU-T Recommendation Q.731, clause 6 (1993), modified]".
- [7] ETS 300 356-7 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 7: Terminal Portability (TP) supplementary service [ITU-T Recommendation Q.733, clause 4 (1993), modified]".
- [8] ETS 300 356-8 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 8: User-to-User Signalling (UUS) supplementary service [ITU-T Recommendation Q.737, clause 1 (1993), modified]".

- [9] ETS 300 356-9 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 9: Closed User Group (CUG) supplementary service [ITU-T Recommendation Q.735, clause 1 (1993), modified]".
- [10] ETS 300 356-10 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 10: Subaddressing (SUB) supplementary service [CCITT Recommendation Q.731, section 8 (1992), modified]".
- [11] ETS 300 356-11 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 11: Malicious Call Identification (MCID) supplementary service".
- [12] ETS 300 356-12 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 12: Conference call, add-on (CONF) supplementary service [ITU-T Recommendation Q.734, clause 1 (1993), modified]".
- [13] ETS 300 356-14 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 14: Explicit Call Transfer (ECT) supplementary service".
- [14] ETS 300 356-15 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 15: Diversion supplementary services [ITU-T Recommendation Q.732, clauses 2 to 5 (1993), modified]".
- [15] ETS 300 356-16 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 16: Call Hold (HOLD) supplementary service [ITU-T Recommendation Q.733, clause 2 (1993), modified]".
- [16] ETS 300 356-17 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 17: Call Waiting (CW) supplementary service [CCITT Recommendation Q.733, section 1 (1992), modified]".
- [17] ETS 300 356-18 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 18: Completion of Calls to Busy Subscriber (CCBS) supplementary service".
- [18] ETS 300 356-19 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 19: Three party (3PTY) supplementary service [ITU-T Recommendation Q.734, clause 2 (1993), modified]".
- [19] ETS 300 356-31 (1997): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface; Part 31: Protocol Implementation Conformance Statement (PICS) proforma specification for basic services".
- [20] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [21] ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

3 Definitions and abbreviations

3.1 Definitions

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

- terms defined in ISUP version 2 reference specifications [1-18];
- terms defined in ISO/IEC 9646-1 [20] and in ISO/IEC 9646-7 [21].

In particular, the following terms defined in ISO/IEC 9646-1 [20] apply:

Implementation Conformance Statement (ICS): A statement made by the supplier of an implementation or system claimed to conform to a given specification, stating which capabilities have been implemented. The ICS can take several forms: protocol ICS, profile ICS, profile specific ICS, information object ICS, etc.

ICS proforma: A document, in the form of a questionnaire, which when completed for an implementation or system becomes an ICS.

Protocol ICS (PICS): An ICS for an implementation or system claimed to conform to a given protocol specification.

3.2 Abbreviations

For the purposes of this ETS, the following abbreviations apply, together with those given in ETS 300 356-1 [1]:

3PTY	Three-Party
CCBS	Completion of Calls to Busy Subscriber
CD	Call Deflection
CFB	Call Forwarding Busy
CFNR	Call Forwarding No Reply
CFU	Call Forwarding Unconditional
CLIP	Calling Line Identification Presentation
CLIR	Calling Line Identification Restriction
CntrlE	Controlling Exchange
COLP	Connected Line Identification Presentation
COLR	Connected Line Identification Restriction
CONF	Conference call, add-on
CUG	Closed User Group
CW	Call Waiting
DLE	Destination Local Exchange
ECT	Explicit Call Transfer
HOLD	Call Hold
ICS	Implementation Conformance Statement
IRS	Identification Response
InclE	Incoming International Exchange
IntermE	Intermediate Exchange
ISDN	Integrated Services Digital Network
ISUP	ISDN User Part
ITE	International Transit Exchange
IUT	Implementation Under Test
IWorkE	Interworking Exchange
LOP	Loop Prevention message
MCID	Malicious Call Identification
NTE	National Transit Exchange
OLE	Originating Local Exchange
OutIE	Outgoing International Exchange
PICS	Protocol ICS
SCS	System Conformance Statement
SUB	Subaddressing
SUT	System Under Test
TP	Terminal Portability
UUS	User-to-User Signalling
UUSn	UUS service n (n = 1..3)

4 Conformance to this PICS proforma specification

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

A PICS that conforms to this PICS proforma specification shall:

- a) describe an implementation which claims to conform to the ISUP version 2 supplementary service reference specifications [2-18];
- b) be a conforming PICS proforma which has been completed in accordance with the instructions for completion given in clause A.1;
- c) include the information necessary to uniquely identify both the supplier and the implementation.

Annex A (normative): PICS proforma for ISUP version 2 supplementary services

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

A.1 Guidance for completing the ICS proforma

The supplier of the implementation shall complete the ICS proforma in each of the spaces provided. If necessary, the supplier may provide additional comments separately.

More detailed instructions are given at the beginning of the different subclauses of the ICS 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 the ISUP version 2 supplementary service reference specifications [2-18] may provide information about the implementation in a standardized manner.

The PICS proforma is subdivided into subclauses for the following categories of information:

- guidance for completing the ICS proforma;
- identification of the implementation;
- identification of the reference protocol specification;
- PICS proforma tables (containing the global statement of conformance).

A.1.2 Abbreviations and conventions

The PICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [21].

Item column

The item column contains a number which identifies the item in the table.

Item description column

The item description column describes in free text each respective item (e.g. parameters, timers, etc.). It implicitly means "is <item description> supported by the implementation?".

Reference column

The reference column makes explicit reference(s) to the appropriate specification(s).

Status column

The following notations, defined in ISO/IEC 9646-7 [21], are used for the status column:

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 which identifies an unique group of related optional items and the logic of their selection which is defined immediately following the table.

ci conditional - the requirement on the capability ("m", "o" or "n/a") depends on the support of other optional or conditional items. "i" is an integer identifying a unique conditional status expression which is defined immediately following the table. If an ELSE clause is omitted, "ELSE n/a" shall be implied.

Support column

The support column shall be filled in by the supplier of the implementation. The following common notations, defined in ISO/IEC 9646-7 [21], are used for the support column:

- Y or y supported by the implementation.
- N or n not supported by the implementation.
- n/a or — no answer required (allowed only if the status is n/a, directly or after evaluation of a conditional status).

References to items

For each possible item answer (answer in the support column) within the PICS proforma exists a unique reference. It is defined as the table identifier, followed by a solidus character "/", followed by the item number in the table. If there is more than one support column in a table, the columns shall be discriminated by letters (a, b, etc.), respectively.

- EXAMPLE 1: A.5/4 is the reference to the answer of item 4 in table 5 of annex A.
- EXAMPLE 2: A.6/3b is the reference to the second answer (i.e. in the second support column) of item 3 in table 6 of annex A.

A.1.3 Instructions for completing the PICS proforma

The supplier of the implementation shall complete the PICS proforma in each of the spaces provided. In particular, an explicit answer shall be entered, in each of the support column boxes provided, using the notation described in subclause A.1.2.

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 so as to provide as much detail as possible regarding version numbers and configuration options.

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

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

A.2.1 Date of the statement

.....

A.2.2 Implementation Under Test (IUT) identification

IUT name:

.....
.....

IUT version:

.....

A.2.3 System Under Test (SUT) identification

SUT name:

.....
.....

Hardware configuration:

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

Operating system:

.....

A.2.4 Product supplier

Name:

.....

Address:

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

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

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

A.2.5 Client (if different from product supplier)

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

A.2.6 ICS contact person

(A person to contact if there are any queries concerning the content of the ICS)

Name:

.....

Telephone number:

.....

Facsimile number:

.....

E-mail address:

.....

Additional information:

.....

.....

.....

A.3 Identification of the reference protocol specifications

This PICS proforma applies to the following standards:

ETS 300 356-2 to ETS 300 356-18 (1995): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 2 for the international interface", i.e. the parts dealing with the ISUP version 2 supplementary services.

NOTE: As prerequisite it is necessary to support the ISUP version 2 basic services specified in ETS 300 356-1 [1]. A separate PICS proforma for the ISUP version 2 basic services is specified in ETS 300 356-31 [19].

A.4 PICS proforma tables

A.4.1 Global statement of conformance

Are all mandatory capabilities implemented? (Yes/No)

NOTE: Answering "No" to this question indicates non-conformance to the reference protocol specification. Non-supported mandatory capabilities are to be identified in the PICS, with an explanation of why the implementation is non-conforming.

A.4.2 Roles

Table A.1: Roles

Item	Is the implementation a ...	Reference	Status	Support
1	OLE - Originating Local Exchange?	2.1.1.1/Q.764	o.1	
2	NTE - National Transit Exchange?	2.1.1.2/Q.764	o.1	
3	OutIE - Outgoing International Exchange?	2.1.1.3/Q.764	o.1	
4	ITE - International Transit Exchange?	2.1.1.4/Q.764	o.1	
5	InclE - Incoming International Exchange?	2.1.1.5/Q.764	o.1	
6	DLE - Destination LOcal Exchange?	2.1.1.6/Q.764	o.1	

o.1: It is mandatory to support at least one of these items

A.4.3 Capabilities

The matrix in figure A.1 is an abbreviation guide for roles.

OLE	NTE	OutIE	ITE	InclE	DLE
Local	Transit	Gateway	Transit	Gateway	Local
	IntermE	IntermE	IntermE	IntermE	
CntrlE	CntrlE	CntrlE			
	IWorkE	IWorkE	IWorkE	IWorkE	

Figure A.1: Abbreviation for roles

Table A.2: Generic signalling procedures for supplementary services

Item	Is the exchange able to perform ...	Reference	Status	Support
1	End-to-end signalling - Pass along method?	table 1/Q.761	o	
2	End-to-end signalling - SCCP connection-oriented?	table 1/Q.761	o	
3	End-to-end signalling - SCCP connectionless?	table 1/Q.761	o	
4	Generic number transfer?	table 1/Q.761	o	
5	Generic digit transfer?	table 1/Q.761	o	
6	Generic notification procedure?	table 1/Q.761	o	
7	Simple service activation procedure?	table 1/Q.761	o	
8	Remote operations procedure?	table 1/Q.761	o	
9	Network specific procedures?	table 1/Q.761	o	

Table A.3: Supplementary Services Major Capabilities

Item	Is the exchange able to ...	Reference	Status	Support
1	support the service Calling Line Identification Presentation (CLIP)?	Q.731.3; ETS 300 356-3	o	
2	support the service Calling Line Identification Restriction (CLIR)?	Q.731.4; ETS 300 356-4	o	
3	support the service Connected Line Identification Presentation (COLP)?	Q.731.5; ETS 300 356-5	o	
4	support the service Connected Line Identification Restriction (COLR)?	Q.731.6; ETS 300 356-6	o	
5	support the service Terminal Portability (TP)?	Q.733.4; ETS 300 356-7	o	
6	support at least one User-to-User Signalling (UUS) service?	Q.737.1; ETS 300 356-8	o	
7	support the service Closed User Group (CUG)?	Q.735.1; ETS 300 356-9	o	
8	support the service Sub-addressing (SUB)?	Q.731.8; ETS 300 356-10	o	
9	support the service Malicious Call Identification (MCID)?	Q.731.7; ETS 300 356-11	o	
10	support the service Conference Call, add-on (CONF)?	Q.734.1; ETS 300 356-12	o	
11	support the service Explicit Call Transfer (ECT)?	ETS 300 356-14	o	
12	support the service Call Forwarding Busy (CFB)?	Q.732.2; ETS 300 356-15	o	
13	support the service Call Forwarding No Reply (CFNR)?	Q.732.3; ETS 300 356-15	o	
14	support the service Call Forwarding Unconditional (CFU)?	Q.732.4; ETS 300 356-15	o	
15	support the service Call Deflection (CD)?	Q.732.5; ETS 300 356-15	o	
16	support the service Call Hold (HOLD)?	Q.733.2; ETS 300 356-16	o	
17	support the service Call Waiting (CW)?	Q.732.1; ETS 300 356-17	o	
18	support the service Completion of Calls to Busy Subscriber (CCBS)?	ETS 300 356-18	o	
19	support the Three-Party (3PTY) service?	Q.734.2; ETS 300 356-19	o	

Table A.4: CLIP

Item	Is the exchange [role] able to ...	Reference	Status	Support
1	[OutIE] omit the calling party number in case of bilateral agreements?	3.5.2.3.1/Q.731	o	
2	[OutIE] omit the additional calling party number in the generic number in case of bilateral agreements?	3.5.2.3.1/Q.731	o	
3	[OutIE] omit the calling sub-address in the access transport parameter in case of bilateral agreements?	3.2.1/Q.731	c41	
4	@ [InclE] add a prefix to the calling party number and set its nature of address indicator to "unknown"?	3.5.2.4.1/Q.731	o	
5	@ [InclE] support the coding "address not available" in the address presentation restricted indicator of the calling party number ?	3.10/Q.763; 3.5.2.4.2/Q.731	o	

c41: IF A.4/1 THEN m ELSE n/a

@: national use

Table A.5: CLIR

Item	Is the exchange [role] able to ...	Reference	Status	Support
1	[OutIE] discard the calling party number if it is received with the address presentation restricted indicator set to "presentation restricted"?	4.5.2.3.2/Q.731	o	
2	[OutIE] discard the additional calling party number in the generic number if it is received with the address presentation restricted indicator set to "presentation restricted"?	4.5.2.3.2/Q.731	o	
3	[OutIE] discard the calling sub-address in the access transport parameter if the calling party number is received with the address presentation restricted indicator set to "presentation restricted"?	4.2.1/Q.731	c51	

c51: IF A.5/1 THEN m ELSE n/a

Table A.6: COLP

Item	Is the exchange [role] able to ...	Reference	Status	Support
1	@ [OutIE] add a prefix to the connected number and set its nature of address indicator to "unknown"?	5.5.2.3.1/Q.731	o	
2	[InclE] omit the connected number in case of bilateral agreements?	5.5.2.4.1/Q.731	o	
3	[InclE] omit the additional connected number in the generic number in case of bilateral agreements?	5.5.2.4.1/Q.731	o	
4	[InclE] remove the COL (zero the address signals of the connected number) and set the address presentation restriction indicator to "address not available"?	5.5.2.4.1/Q.731	o	
5	[DLE] deliver the COL?	5.5.2.5.1/Q.731	m	
6	[DLE] include, if provided by the user, the connected sub-address in the access transport parameter?	5.5.2.5.1/Q.731	o	

@: national use

Table A.7: COLR

Item	Is the exchange [role] able to ...	Reference	Status	Support
1	[InclE] discard the connected number if it is received with the presentation restriction indicator set to "presentation restricted"?	6.5.2.4.1/Q.731	o	
2	[InclE] discard the additional connected number in the generic number if it is received with the presentation restriction indicator set to "presentation restricted"?	6.5.2.4.1/Q.731	o	
3	[InclE] remove the COL (zero the address signals of the connected number) and change the presentation restriction indicator from "presentation restricted" to "address not available"?	6.5.2.4.1/Q.731	o	

Table A.8: Service not supported

Item	Is the exchange [role] able to ...	Reference	Status	Support
1	[Gateway] support discarding of Suspend and Resume messages, if the network does not support the TP service?	4.5.2.3.2; 4.5.2.4.2 /Q.733	c81	
2	[InclE] support correct rejection or processing of CUG calls in case of interworking with networks not supporting CUG?	1.5.2.4.2; table 1-1/Q.735; ETS 300 356-9	c82	
3	[OutIE] return an IRS with bit A of the MCID response indicator set to 0 "MCID not included", if the national network does not support the MCID service?	9.4.2/ ETS 300 356-11	c83	

c81: IF NOT A.3/5 THEN o ELSE n/a
c82: IF NOT A.3/7 THEN m ELSE n/a
c83: IF NOT A.3/9 THEN o ELSE n/a

Table A.9: UUS

Item	Is the exchange [role] able to ...	Reference	Status	Support
1	support the user-to-user information parameter with at least 32 octets as user information?	1.1.2.1; 1.2.2.1; 1.3.2.1/Q.737	m	
2	support the maximum number of up to 128 octets as user information in the user-to-user information parameter? If not 128, specify maximum allowed number.	1.1.2.1; 1.2.2.1; 1.3.2.1/Q.737	o	
3	support implicit request of UUS1?	1.1/Q.737	o	
4	support explicit request of UUS1?	1.1/Q.737	o	
5	[IntermE] support the rejection procedure of an explicit service request or discarding of user-to-user information as described in 1.1.5.2.5.2/Q.737?	1.1.5.2.2.2/ Q.737	c91	
6	support UUS2?	1.2/Q.737	o	
7	[DLE] deliver user-to-user information after the user has answered the call?	1.2.2.1/Q.737	c92	
8	support UUS3?	1.3/Q.737	o	

c91: IF A.9/4 THEN o ELSE n/a
c92: IF A.9/6 THEN o ELSE n/a

Table A.10: CUG

Item	Is the exchange [role] able to ...	Reference	Status	Support
1	support Closed User Group with decentralized administration?	1/Q.735	m	
2	support Closed User Group with centralized administration?	1/Q.735	n/a	
3	[Gateway] support conversion of national to international CUG codes?	1.5.2.3.1; 1.5.2.4.1/Q.735	o	
4	support invocation of CLIR for CUG calls?	1.6.6/Q.735	o	

Table A.11: SUB

Item	Is the exchange able to ...	Reference	Status	Support
1	support the maximum 23 octet length of the Sub-address parameter?	8.4; 8.7/Q.731	m	

Table A.12: MCID

Item	Is the exchange [role] able to ...	Reference	Status	Support
1	[OLE] provide the calling party sub-address as part of the MCID service?	5/ ETS 300 356-11	o	
2	[DLE] store and process the calling party sub-address as part of the MCID service?	5/ ETS 300 356-11	o	
3	[DLE] support the registration of the original called number and the redirecting number for MCID when invoking CFB, CFNR, CFU, CD?	11.10/ ETS 300 356-11	o	
4	[OutIE] omit for MCID the calling party number in case of bilateral agreements?	9.4.1/ ETS 300 356	o	
5	[InclE] modify the MCID response indicator set to 0 "MCID not included" according to the information available in the exchange?	9.5.2/ ETS 300 356-11	o	

Table A.13: CONF

Item	Is the exchange [role] able to ...	Reference	Status	Support
1	support the user notification procedures?	1.5/Q.734	c131	
2	[OLE] support (<i>which?</i>) maximum number of conference participants?	1.5.2.1.1.2/ Q.734	o	

c131 IF A.2/6 THEN o ELSE n/a

Table A.14: ECT

Item	Is the exchange [role] able to ...	Reference	Status	Support
1	[Local] store remote user numbers (calling party number/connected number or additional calling party number/additional connected number) and send them in the call transfer number when call transfer is performed?	9.2.1.1/ ETS 300 356-14	m	
2	support the loop prevention procedure?	5; 9.2.1.2/ ETS 300 356-14	o	
3	[Local] support the timer T_{ECT} ? If yes, specify the timer value (2-6 s).	9.2.1.2.1; 12/ ETS 300 356-14	c141	
4	[Local] reject the call transfer in case of T_{ECT} timer expiry?	9.2.1.2.1/ ETS 300 356-14	c142	
5	[Local] complete the call transfer in case of T_{ECT} timer expiry?	9.2.1.2.1/ ETS 300 356-14	c142	
6	[Gateway] omit the call transfer number if the address presentation restriction indicator indicates "presentation restricted"?	9.4.1; 9.5.1/ ETS 300 356-14	o	
7	[WorkE] support call control interworking between ISUP v2 and protocols not supporting the loop prevention procedure, i.e. return a LOP (response) message with the indication "insufficient information"?	10/ ETS 300 356-14	c143	
8	[Local] reject the call transfer in case receipt of LOP messages with the response indicator set to "insufficient information"?	9.2.1.2.1/ ETS 300 356-14	c144	
9	[Local] complete the call transfer in case receipt of LOP messages with the response indicator set to "insufficient information"?	9.2.1.2.1/ ETS 300 356-14	c144	

c141: IF A.14/2 THEN m ELSE n/a

c142: IF A.14/2 THEN o.2 ELSE n/a

c143: IF A.14/2 THEN o ELSE n/a

c144: IF A.14/2 THEN o.3 ELSE n/a

o.2: It is mandatory to support exactly one of these options

o.3: It is mandatory to support exactly one of these options

Table A.15: CFB, CFNR, CFU, CD

Item	Is the exchange [role] able to ...	Reference	Status	Support
1	support the diversion notification procedures?	2.5.2.5.1.2 d)/ Q.732	m	
2	support the maximum number of up to 5 diversions for each call? If not 5, specify the maximum allowed number.	table 2-2/Q.732	o	
3	[DLE] omit octet 2 of the redirection information if the redirection counter equals 1?	3.45/Q.763	o	
4	[DLE] support the usage of the Original redirection reasons in the redirection information parameter with the encodings: 0001 user busy @ 0010 no reply @ 0011 unconditional @?	3.45/Q.763	o	
5	[DLE] include the redirection number in the ACM or CPG?	2.5.2.5.1.2 d)/ Q.732	m	
6	[DLE] include the redirection number in the ANM or CON?	2.5.2.4.1/ ETS 300 356-15	n/a	
7	[InclE] pass on the redirection number if received in an ACM or CPG?	2.5.2.4.1/ ETS 300 356-15	o	
8	[InclE] pass on the redirection number if received in the ANM or CON?	2.5.2.4.1/ ETS 300 356-15	n/a	
9	[Local] support the usage of event information with the encodings: 0000100 CFB 0000101 CFNR 0000110 CFU?	2.4.2/Q.732	o	
10	[IntermE] support the transport of event information with the encodings: 0000100 CFB 0000101 CFNR 0000110 CFU?	2.4.2/Q.732	o	
11	[OutIE] omit the original called number in case of bilateral agreements?	2.5.2.3.1/Q.732 3.5.2.3.1/Q.731	o	
12	[OutIE] omit the redirecting number in case of bilateral agreements?	2.5.2.3.1/Q.732 3.5.2.3.1/Q.731	o	
13	[InclE] omit the redirection number in case of bilateral agreements?	2.5.2.4.1/Q.732 5.5.2.4.1/Q.731	o	
14	@[OutIE] add a prefix to the redirection number and set its nature of address indicator to "unknown" (as for COLP A.6/1)?	5.5.2.3.1/Q.731	o	
15	@[InclE] add a prefix to the original called number and set its nature of address indicator to "unknown" (as for CLIP A.4/4)?	3.5.2.4.1/Q.731	o	
16	@[InclE] add a prefix to the redirecting number and set its nature of address indicator to "unknown" (as for CLIP A.4/4)?	3.5.2.4.1/Q.731	o	

@: national use

Table A.16: CFNR, CD

Item	Is the exchange [role] able to ...	Reference	Status	Support
1	[Local] retain call to the served user until alerting begins at the diverted-to user (late release - option A)?	2.5.2.5.2.2; table 2-2/Q.732	o.4	
2	[Local] clear call to the served user on invocation of call diversion (immediate release - option B)?	2.5.2.5.2.2; table 2-2/Q.732	o.4	
3	[Local] through-connect in both directions immediately after sending the IAM?	2.5.2.5.1.2/ Q.732	c161	
4	[Local] perform through-connection in both directions at the receipt of ACM or CON?	2.5.2.5.1.2/ ETS 300 356-15	c161	
5	[Local] support the Call Forwarding No Reply timer? If yes, specify the timer value.	table 2-2/Q.732	c162	

o.4: It is mandatory to support exactly one of these options
c161: IF A.16/2 THEN o.5 ELSE n/a
c162: IF A.3/13 THEN m ELSE o
o.5: It is mandatory to support at least one of these options

Table A.17: HOLD

Item	Is the exchange [role] able to ...	Reference	Status	Support
1	[OLE] support call hold as soon as the calling user has provided all of the information necessary for processing the call?	2.2.1/Q.733	o	
2	[OLE] support call hold by the calling user after alerting has commenced?	2.2.1/Q.733	c171	
3	supply the remote user with an in-band indication in the case of interworking with PSTN?	2.7/Q.733	o	

c171: IF A. 17/1 THEN m ELSE o

Table A.18: CCBS

Item	Is the exchange [role] able to ...	Reference	Status	Support
1	[Local] support the retain option?	3/ ETS 300 356-18	o	
2	[OLE] support the maximum number of up to 5 outstanding CCBS requests of a user? If not 5, specify the maximum allowed number.	9.1.1.1.1/ ETS 300 356-18	o	
3	[OLE] include the calling party number in the CCBS request invoke component?	9.1.1.1.1/ ETS 300 356-18	o	
4	[OLE] treat a second identical activation of CCBS as a new request?	9.2.2/ ETS 300 356-18	o.6	
5	[OLE] reject a second identical activation of CCBS?	9.2.2/ ETS 300 356-18	o.6	
6	[DLE] support the maximum number of up to 5 queue entries? If not 5, specify the maximum allowed number.	9.6.1/ ETS 300 356-18	o	
7	[OLE] initiate the CCBS supplementary service even if no diagnostic is received in the release message with causes #17 or #34?	10.1/ ETS 300 356-18	o	
8	[DLE] treat the CCBS call as a "destination B busy upon arrival of CCBS request" in case of interaction between CCBS and CFB?	11.10.2.2.c); 9.6.2.c)/ ETS 300 356-18	o.7	
9	[DLE] forward the CCBS call as a normal call in case of interaction between CCBS and CFB?	11.10.2.2.c)/ ETS 300 356-18	o.7	
10	[DLE] release the call with the diagnostic "CCBS possible" when the service is available?	9/ ETS 300 356-18	m	
11	[DLE] release the call with the diagnostic "CCBS not possible" if the service is not available?	9/ ETS 300 356-18	m	
12	[OLE] support the retention timer CCBS-T1? If yes, specify the timer value (greater than 15 s).	12.1/ ETS 300 356-18	m	
13	[OLE] support the CCBS request operation timer CCBS-T2? The value of the timer shall be 10 s.	12.1/ ETS 300 356-18	m	
14	[OLE] support the CCBS service duration timer CCBS-T3? If yes, specify the timer value (15-45 min).	12.1/ ETS 300 356-18	m	
15	[OLE] support the CCBS recall timer CCBS-T4? If yes, specify the timer value (10-20 s).	12.1/ ETS 300 356-18	m	
16	[DLE] support the CCBS service supervision timer CCBS-T7? The value of the timer shall be 60 min.	12.2/ ETS 300 356-18	m	
17	[DLE] support the destination B idle guard timer CCBS-T8? If yes, specify the timer value (less than 15 s).	12.2/ ETS 300 356-18	m	
18	[DLE] support the recall timer CCBS-T9? The value of the timer shall be 30 s.	12.2/ ETS 300 356-18	m	
19	[Local] support the interworking supervision timer T _{SUP} ? The value of the timer shall be 60 min.	12.3/ ETS 300 356-18	o	

o.6: It is mandatory to support exactly one of these options

o.7: It is mandatory to support exactly one of these options

History

Document history			
February 1997	Public Enquiry	PE 9726:	1997-02-28 to 1997-06-27
December 1997	Vote	V 9809:	1997-12-30 to 1998-02-27
March 1998	First Edition		