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**Broadband Integrated Services Digital Network (B-ISDN);  
B-ISDN User Part (B-ISUP) Capability Set 1 (CS1);  
Basic services**

[ITU-T Recommendations Q.2761 to Q.2764 (1995), modified]

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## Foreword

This draft European Telecommunication Standard (ETS) has been produced by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI), and is now submitted for the Public Enquiry phase of the ETSI standards approval procedure.

This ETS belongs to a set of standards related to the Broadband Integrated Services Digital Network (B-ISDN) User Part (B-ISUP) Capability Set 1 (CS1) for the international interface, as described below:

**ETS 300 656:** "Basic services [ITU-T Recommendations Q.2761 to Q.2764 (1995), modified]";

ETS 300 657: "Supplementary services [ITU-T Recommendation Q.2730 (1995), modified]";

ETS 300 495: "B-ISUP to DSS2 interworking [ITU-T Recommendation Q.2650 (1995), modified]";

ETS 300 496: "B-ISUP to N-ISUP interworking [ITU-T Recommendation Q.2660 (1995), modified]";

ETS 300 685: "Usage of cause and location in DSS2 and B-ISUP [ITU-T Recommendation Q.2610 (1995), modified]".

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

## Endorsement notice

The text of ITU-T Recommendations Q.2761 to Q.2764 (1995) was approved by ETSI as an ETS with agreed modifications as given below.

NOTE: New or modified text is indicated using sidebars. In addition, underlining and/or strike-out are used to highlight detailed modifications where necessary.

## Global modifications to ITU-T Recommendations Q.2761 to Q.2764

Replace the following three clauses (scope, references and symbols and abbreviations):

### Scope

This European Telecommunication Standard (ETS) specifies procedures to support basic bearer services for Broadband Integrated Services Digital Network (B-ISDN) Capability Set 1 (CS1) applications defined for the pan-European B-ISDN as provided by the European public telecommunications operators by means of the Signalling System No.7 protocol for the B-ISDN User Part (B-ISUP).

This ETS does not specify the additional protocol requirements where services are provided to the user via a telecommunication network that is not a B-ISDN.

Although this ETS applies only to the international section, the specification of functions, formats and codes of messages and signals, and actions performed at originating and destination local exchanges are retained. All formats, codes and procedures marked for national use are included for informative purposes only. At transit nodes, B-ISUP supports the narrowband ISDN User Part (ISUP) services depicted in ISUP version 2 as defined in ETS 300 356-1 to ETS 300 356-19 ([2] to [19]).

In the case where a national signalling system behaves differently, the international gateway exchange is to support both the concerned national and the international network and the services and equipment supported by both the concerned national and international network.

Annexes to ITU-T Recommendations Q.2761 to Q.2764 are to be considered as normative annexes in this ETS whereas appendices represent informative annexes.

### 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.

- [1] ETS 300 008-1: "Integrated Services Digital Network (ISDN); Signalling System No.7; Message Transfer Part (MTP) to support international interconnection; Part 1: Protocol specification [ITU-T Recommendations Q.701 (1993), Q.702 (1988), Q.703 to Q.706 (1993), Q.707 (1988) and Q.708 (1993), modified]".
- [2] 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]".
- [3] 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]".
- [4] 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]".
- [5] 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]".

- [6] 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]".
- [7] 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]".
- [8] 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]".
- [9] 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]".
- [10] 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]".
- [11] 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]".
- [12] 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".
- [13] 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]".
- [14] 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".
- [15] 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]".
- [16] 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]".
- [17] 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]".
- [18] 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".

- [19] 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]".
- [20] ETS 300 436-1 (1995): "Broadband Integrated Services Digital Network (B-ISDN); Signalling ATM Adaptation Layer (SAAL); Service Specific Connection Oriented Protocol (SSCOP); Part 1: Protocol specification [ITU-T Recommendation Q.2110 (1995), modified]".
- [21] ETS 300 438-1 (1995): "Broadband Integrated Services Digital Network (B-ISDN); Signalling ATM Adaptation Layer (SAAL); Service Specific Co-ordination Function (SSCF) for support of signalling at the Network Node Interface (NNI); Part 1: Specification of SSCF at NNI [ITU-T Recommendation Q.2140 (1995), modified]".
- [22] ETS 300 443-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; B-ISDN user-network interface layer 3 specification for basic call/bearer control; Part 1: Protocol specification [ITU-T Recommendation Q.2931 (1995), modified]".
- [23] ETS 300 495: "Broadband Integrated Services Digital Network (B-ISDN); Signalling System No.7; Interworking between Broadband ISDN User Part (B-ISUP) and Digital Subscriber Signalling System No. two (DSS2) [ITU-T Recommendation Q.2650 (1995), modified]".
- [24] ETS 300 496: "Broadband Integrated Services Digital Network (B-ISDN); Signalling System No.7; Interworking between Broadband ISDN User Part (B-ISUP) and Narrowband ISDN User Part (ISUP) [ITU-T Recommendation Q.2660 (1995), modified]".
- [25] ETS 300 657: "Broadband Integrated Services Digital Network (B-ISDN); Signalling System No.7; B-ISDN User Part (B-ISUP) Capability Set 1 (CS1); Supplementary services [ITU-T Recommendation Q.2730 (1995), modified]".
- [26] ETS 300 685: "Broadband Integrated Services Digital Network (B-ISDN); Usage of cause and location in Digital Subscriber Signalling System No. two (DSS2) and Signalling System No.7 B-ISDN User Part (B-ISUP) [ITU-T Recommendation Q.2610 (1995), modified]".
- [27] CCITT Recommendation E.164 (1991): "Numbering Plan for the ISDN Era".
- [28] ITU-T Recommendation I.112 (1993): "Vocabulary of terms for ISDNs".
- [29] ITU-T Recommendation I.210 (1993): "Principles of telecommunication services supported by an ISDN and the means to describe them".

## Definitions

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

**Integrated Services Digital Network (ISDN):** See ITU-T Recommendation I.112 [28], definition 308.

**service; telecommunication service:** See ITU-T Recommendation I.112 [28], definition 201.

**subaddress:** See CCITT Recommendation E.164 [27], subclause 12.2.

**supplementary service:** See ITU-T Recommendation I.210 [29], subclause 2.4.

## Abbreviations

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

3PTY	Three Party Service
ASE	Application Service Element
ASN.1	Abstract Syntax Notation One
ATM	Asynchronous Transfer Mode
B-ISDN	Broadband ISDN
B-ISUP	B-ISDN User Part
BC	Bearer Control
BCOB-A	Broadband Connection Oriented Bearer - Subcategory A
BCOB-X	Broadband Connection Oriented Bearer - Subcategory X
CC	Call Control
CCBS	Completion of Calls to Busy Subscriber
CCI	CCBS Indicator
CD	Call Deflection
CFB	Call Forwarding on Busy
CFNR	Call Forwarding on No Reply
CFU	Call Forwarding Unconditional
CLIP	Calling Line Identification Presentation
CLIR	Calling Line Identification Restriction
COLP	Connected Line Identification Presentation
COLR	Connected Line Identification Restriction
CONF	Conference Calling
CS1	Capability Set 1
CTM	Call Transfer Message
CUG	Closed User Group
CW	Call Waiting
DPC	Destination Point Code
DSS2	Digital Subscriber Signalling System No. two
ECT	Explicit Call Transfer
HI	Hold Indicator
HOLD	Call Hold
HP	Hold Provided
IDR	Identification Request Message
IRS	Identification Response Message
LOP	Loop Prevention
MC	Maintenance Control
MCID	Malicious Call Identification
MLPP	Multi-Level Precedence and Preemption
MRpl	MCID Response Indicator
MRpl	MCID Request Indicator
MTP	Message Transfer Part
NNI	Network Node Interface
OPC	Origination Point Code
SACF	Single Association Control Function
SCS	Signalling Capability Set
SDL	Specification and Description Language
SIO	Service Information Octet
SLS	Signalling Link Selection Code
SSCF	Service Specific Co-ordination Function
SSCOP	Service Specific Connection Oriented Protocol
STM	Synchronous Transfer Mode
SUB	Subaddressing
TC	Transaction Capability
TP	Terminal Portability
UI	Unrecognised Information
UUS	User-to-User Signalling Service

**Throughout the text of ITU-T Recommendations Q.2761 to Q.2764**

Replace references as shown below.

Reference in ITU-T Recommendations Q.2761 and Q.2764	Modified reference
ITU-T Recommendation Q.701	ITU-T Recommendation Q.701 as modified by ETS 300 008-1 [1]
ITU-T Recommendation Q.702	ITU-T Recommendation Q.702 as modified by ETS 300 008-1 [1]
ITU-T Recommendation Q.703	ITU-T Recommendation Q.703 as modified by ETS 300 008-1 [1]
ITU-T Recommendation Q.704	ITU-T Recommendation Q.704 as modified by ETS 300 008-1 [1]
ITU-T Recommendation Q.761	ITU-T Recommendation Q.761 as modified by ETS 300 356-1 [2]
ITU-T Recommendation Q.762	ITU-T Recommendation Q.762 as modified by ETS 300 356-1 [2]
ITU-T Recommendation Q.763	ITU-T Recommendation Q.763 as modified by ETS 300 356-1 [2]
ITU-T Recommendation Q.764	ITU-T Recommendation Q.764 as modified by ETS 300 356-1 [2]
ITU-T Recommendation Q.2110	ITU-T Recommendation Q.2110 as modified by ETS 300 436-1 [20]
ITU-T Recommendation Q.2140	ITU-T Recommendation Q.2140 as modified by ETS 300 438-1 [21]
ITU-T Recommendation Q.2610	ITU-T Recommendation Q.2610 as modified by ETS 300 685 [26]
ITU-T Recommendation Q.2650	ITU-T Recommendation Q.2650 as modified by ETS 300 495 [23]
ITU-T Recommendation Q.2660	ITU-T Recommendation Q.2660 as modified by ETS 300 496 [24]
ITU-T Recommendation Q.2730	ITU-T Recommendation Q.2730 as modified by ETS 300 657 [25]
ITU-T Recommendation Q.2931	ITU-T Recommendation Q.2931 as modified by ETS 300 443-1 [22]

**Modifications to ITU-T Recommendations Q.2761**

**Page 6, table 1/Q.2761 (end)**

Delete the MLPP supplementary service. It is not applicable for this ETS.

Add the following supplementary services to the table:

Function/ Service	Origination/ Destination nodes	Transit nodes
CCBS	-	/
ECT	-	/
MCID	-	/

**Page 8, table 2/Q.2761, note**

Modify item 1) of the note as follows:

- 1) ~~signalling network congestion-level, where level is included only if national options with congestion priorities and multiple signalling states without congestion priorities (see Recommendation Q.704) are implemented;~~

## Modifications to ITU-T Recommendations Q.2762

### Page 3, table 1/Q.2762

Add the following acronyms to the table:

Acronym	Message
CTM	Call Transfer
IDR	Identification Request
IRS	Identification Response
LOP	Loop Prevention

### Page 6

Insert the following subclauses at the end of clause 4:

#### 4.29 Call transfer message

A message sent in either direction in any phase of the call to request an action at another exchange. The message is also used to carry the results, error or rejection of a previously requested action.

#### 4.30 Identification request message

A message sent in the backward direction to request an action regarding the MCID supplementary service.

#### 4.31 Identification response message

A message sent in response to the Identification request message.

#### 4.32 Loop prevention message

The Loop prevention message is a message sent in either direction when the loop prevention procedure is performed.

### Page 7, subclauses 5.1.15, 5.1.18 and 5.1.25

Replace "(see Recommendation I.330)" by "(see Recommendation E.164)".

### Page 8, subclauses 5.1.34 and 5.1.35

MLPP precedence and MLPP user information are not applicable.

### Page 10

Insert the following subclauses after subclause 5.1.57:

#### 5.1.58 Call transfer number

The Call transfer number parameter is used to exchange the remote party number of the users involved in the transferred call.

#### 5.1.59 Call transfer reference

The Call transfer reference parameter is sent in the Loop prevention message in either direction and contains an integer (0...255) expressed in pure binary allocated unambiguously to the particular ECT service invocation.



**5.1.60 CCBS parameter**

Information sent in an Initial address message indicating that this call is a CCBS call.

**5.1.61 Loop prevention indicators**

The Loop prevention indicators parameter is sent in an Loop prevention message in either direction in association with a request (or a response to a request) when the Loop prevention procedure is performed.

**5.1.62 MCID request indicator**

Information sent in the backward direction to request the identity of the calling party for the purpose of malicious call identification.

**5.1.63 MCID response indicator**

Information sent in the forward direction to respond to a MCID request and indicating whether or not the MCID information is available.

**Page 12, subclauses 5.2.56 to 5.2.58**

MLPP precedence and MLPP user information are not applicable.

Look-ahead for busy indicator, MLPP service domain and Precedence level are not applicable.

**Page 14**

Insert the following new subclauses after subclause 5.2.61:

**5.2.61 CCBS call indicator**

Information sent in the forward direction used in a CCBS call set-up to distinguish this call from an ordinary call at the destination local exchange.

**5.2.62 Holding indicator (for national use)**

Information sent in the forward direction indicating that the connection will be held after the calling or called party has attempted to release.

**5.2.63 Hold provided indicator (for national use)**

Information sent in the backward direction indicating that holding of the connection is requested.

**5.2.64 MCID request indicator**

Information sent in the backward direction to request the identity of the calling party for the purpose of malicious call identification.

**5.2.65 MCID response indicator**

Information sent in the forward direction to respond to a MCID request and indicating whether or not the MCID information is available.

## Modifications to ITU-T Recommendations Q.2763

### Page 1, clause 5, second paragraph

Delete the second paragraph "As a national option ...". The use of STM 64 kbit/s links is not applicable.

### Pages 4 and 5, table 1/Q.2763

Add the following messages to the table:

Message type	Reference (Q.2763) (Table)	Code
Call transfer	25A	0011 1001
Identification request	25B	0011 0110
Identification response	25C	0011 0111
Loop prevention	25D	0100 0000

### Pages 8 and 9, table 2/Q.2763

Delete the parameters MLPP precedence and MLPP user information. They are not applicable.

Add the following parameters to the table:

Parameter name	Reference (subclause)	Code
Call transfer number	7.14A	0100 0101
Call transfer reference	7.14B	0100 0011
CCBS	7.21A	0100 1011
Loop prevention indicators	7.33A	0100 0100
MCID request indicators	7.34A	0011 1011
MCID response indicators	7.34B	0011 1100

### Page 18

Insert the following new subclauses after subclause 7.14:

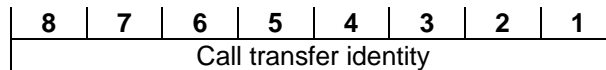
#### 7.14A Call transfer number

The format of the call transfer number parameter field corresponds to the format shown in figure 21.

The encoding is identical to the encoding of the calling party number parameter field shown in subclause 7.18.

### 7.14B Call transfer reference

The format of the call transfer reference parameter field is shown in figure 17A.



**Figure 17A**  
**Call transfer reference parameter field**

The following codes are used in the sub-fields of the call transfer reference parameter field:

- a) Call transfer identity

The call transfer identity is a pure binary representation of the integer (0..255) assigned unambiguously to the particular ECT service invocation.

### Page 22, subclause 7.18, item c) Calling party number incomplete indicator

Delete "(national use)" for the Calling party number incomplete indicator.

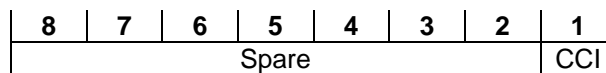
Delete "(national use)" for value "1 Incomplete".

### Page 23

Insert the following new subclauses after subclause 7.21:

### 7.21A CCBS

The format of the CCBS parameter field is shown in figure 22A.



**Figure 22A**  
**CCBS parameter field**

The following codes are used in the sub-fields of the CCBS parameter field:

- a) CCBS call indicator (CCI)

0 No indication  
1 CCBS call

### Page 26, subclause 7.25, item b) Nature of address indicator

Replace reference "See 7.15 b)" with "See 7.18 b)".

Insert the following new subclauses after subclause 7.33:

**7.33A Loop prevention indicators**

The format of the loop prevention indicators parameter field is shown in figure 33A.

8	7	6	5	4	3	2	1
Spare					Response indicator		Type

**Figure 33A**  
**Loop prevention indicators parameter field**

The following codes are used in the sub-fields of the loop prevention indicators parameter field:

- A) If type (bit 1) equals "0" (request):
  - a) Response indicator  
Not used for request; set to "00"

- B) If type (bit 1) equals "1" (response):
  - a) Response indicator
    - 00 insufficient information (note)
    - 01 no loop exists
    - 10 simultaneous transfer
    - 11 spare

NOTE: The value "insufficient information" may be received due to interworking.

Insert the following new subclauses after subclause 7.34:

**7.34A MCID request indicators**

The format of the MCID request indicators parameter field is shown in figure 33B.

8	7	6	5	4	3	2	1
Spare						HI	MRqI

**Figure 33B**  
**MCID request indicators parameter field**

The following codes are used in the sub-fields of the MCID request indicators parameter field:

- a) Holding Indicator (HI) (national use)
  - 0 holding not requested
  - 1 holding requested
- b) MCID Request Indicator (MRqI)
  - 0 MCID not requested
  - 1 MCID requested

**7.34B MCID response indicators**

The format of the MCID response indicators parameter field is shown in figure 33C.

8	7	6	5	4	3	2	1
Spare						HP	MRpl

**Figure 33C**  
**MCID response indicators parameter field**

The following codes are used in the sub-fields of the MCID response indicators parameter field:

- a) Hold Provided (HP) (national use)
  - 0 holding not provided
  - 1 holding provided
  
- b) MCID Response Indicator (MRpl)
  - 0 MCID not included
  - 1 MCID included

**Pages 32 and 33 , subclauses 7.35 and 7.36**

Mark "for national use".

**Page 38, subclauses 7.43, item b) Nature of address indicator**

Replace reference "See 7.15 b)" with "See 7.18 b)".

**Page 41, subclauses 7.48, item b) Nature of address indicator**

Replace reference "See 7.15 b)" with "See 7.18 b)".

**Page 42, subclauses 7.50, item b) Nature of address indicator**

Replace reference "See 7.15 b)" with "See 7.18 b)".

**Page 49, table 3/Q.2763**

The MLPP user information parameter is for national use.

**Page 51, table 5/Q.2763**

Add the following parameter to the table:

Parameter	Reference (subclause)	Length (octets)
Call transfer number	7.14A	6-15

**Page 52, table 7/Q.2763**

The MLPP precedence parameter is for national use.

Add the following parameter to the table:

Parameter	Reference (subclause)	Length (octets)
CCBS	7.21A	5-6

Insert the following new tables after table 25/Q.2763:

**Table 25A: Call transfer**

Parameter	Reference (subclause)	Length (octets)
Call transfer number	7.14A	6-15
Calling party subaddress	7.19	7-27
Destination signalling identifier	7.29	8-9
Notification	7.41	5-6

**Table 25B: Identification request**

Parameter	Reference (subclause)	Length (octets)
Destination signalling identifier	7.29	8-9
MCID request indicators	7.34A	5-6

**Table 25C: Identification response**

Parameter	Reference (subclause)	Length (octets)
Additional calling party number	7.4	6-15
Calling party number	7.18	6-15
Calling party subaddress	7.19	7-27
Destination signalling identifier	7.29	8-9
MCID response indicators	7.34A	5-6

**Table 25D: Loop prevention**

Parameter	Reference (subclause)	Length (octets)
Destination signalling identifier	7.29	8-9
Loop prevention indicators	7.33A	5-6
Call transfer reference	7.14B	5-6

**Pages 58 to 87, appendix I**

The following modifications change the B-ISUP messages and parameters in Abstract Syntax Notation One (ASN.1).

**Pages 58 and 59, B-ISUPMessages {...} (...) IMPORTS FROM B-ISUPParameters {...}**

MLPPPprecedence and MLPPUserInformation are not applicable.

Insert:

```
CallTransferNumber,  
CallTransferReference,  
CCBS,  
LoopPreventionIndicators,  
MCIDRequestIndicators, and  
MCIDResponseIndicators.
```

**Page 59, B-ISUPMessage**

Insert:

```
ctm[57]   CTM,   --- call transfer
idr[54]   IDR,   --- identification request
irs[55]   IRS,   --- identification response
lop[64]   LOP,   --- loop prevention
```

**Pages 59 and 60, ACM-MessageContent**

mLPPUserInfo is not applicable.

**Page 62, CPG-MessageContent**

Insert:

```
callTransferNumber          [69]   CallTransferNumber OPTIONAL,
```

**Page 63, IAM-MessageContent**

mLPPPrecedence is not applicable.

Insert:

```
cCBS                          [75]   CCBS OPTIONAL,
```

**Page 66**

Insert after the definition of USR-MessageContent:

```
CTM ::= SEQUENCE
{
    messageInstructionIndicators    MessagInstructionIndicators,
    cTM-MessageContents             CTM-MessageContents
}

CTM-MessageContents ::= SET
{
    callingPartySubaddress          [22]   CallingPartySubaddress OPTIONAL,
    callTransferNumber              [69]   CallTransferNumber OPTIONAL,
    destinationSignallingID         [3]    DestinationSignallingID OPTIONAL,
    notification                    [44]   Notification OPTIONAL
}

IDR ::= SEQUENCE
{
    messageInstructionIndicators    MessagInstructionIndicators,
    iDR-MessageContents            IDR-MessageContents
}

IDR-MessageContents ::= SET
{
    destinationSignallingID         [3]    DestinationSignallingID OPTIONAL,
    mCIDRequestIndicators           [59]   MCIDRequestIndicators OPTIONAL
}

IRS ::= SEQUENCE
{
    messageInstructionIndicators    MessagInstructionIndicators,
    iRS-MessageContents            IRS-MessageContents
}
```

```
IRS-MessageContents ::= SET
{
  additionalCallingPartyNumber [16] AdditionalCallingPartyNumber OPTIONAL,
  callingPartyNumber           [10] CallingPartyNumber OPTIONAL,
  callingPartySubaddress       [22] CallingPartySubaddress OPTIONAL,
  destinationSignallingID     [3] DestinationSignallingID OPTIONAL,
  mCIDResponseIndicators      [60] MCIDResonseIndicators OPTIONAL
}

LOP ::= SEQUENCE
{
  messageInstructionIndicators MessagInstructionIndicators,
  lOP-MessageContents         LOP-MessageContents
}

LOP-MessageContents ::= SET
{
  destinationSignallingID [3] DestinationSignallingID OPTIONAL,
  loopPreventionIndicators [68] LoopPreventionIndicators OPTIONAL,
  callTransferReference [67] CallTransferReference OPTIONAL
}
```

**Page 67, B-ISUPParameters {...} (...) IMPORTS FROM B-ISUPInformationElementHeaders {...}**

Insert:

```
| LoopPreventionParameter
```

**Page 67, B-ISUPParameters {...} (...) IMPORTS FROM B-ISUPParameterConstructions {...}**

NetworkIdentity is not applicable.

**Page 67, B-ISUPParameters {...} (...) IMPORTS FROM B-ISUPParameterElements {...}**

MLPPServiceDomain is not applicable.

Insert:

```
| HoldingIndicator,
| HoldProvided,
| CallTransferIdentity,
| MCIDRequestIndicator,
| MCIDResponseIndicator,
| LoopPreventionRequest,
| LoopPreventionResponse,
```

**Pages 67 and 68, B-ISUPParameters {...} (...) IMPORTS FROM B-ISUPParameterIndicators {...}**

LookAheadForBusyIndicator, MLPPUserInformation and PrecedenceLevelIndicators are not applicable.

Insert:

```
| CCBSCallIndicator,
```





## Pages 76 and 77, B-ISUPInformationElementHeaders {...}

Insert after the definition of BroadbandNarrowbandParameterIWInd:

```
LoopPreventionParameter ::= CHOICE
{
  loopPreventionRequest      [0]  LoopPreventionRequest,
  loopPreventionResponse     [1]  LoopPreventionResponse
}
```

## Page 77, B-ISUPParameterConstructions {...} (...) IMPORTS FROM B-ISUPParameterElements {...}

MLPPServiceDomain is not applicable.

## Page 78, B-ISUPParameterConstructions {...} (...) IMPORTS FROM B-ISUPParameterIndicators {...}

MLPPUserInformation is not applicable.

## Page 81

Insert after the definition of VirtualPathConnectionID:

```
HoldingIndicator ::= ENUMERATED    -- for national use
{
  holdingNotRequested(0),
  holdingRequested(1)
}

HoldProvided ::= ENUMERATED        -- for national use
{
  holdingNotProvided(0),
  holdingProvided(1)
}

CallTransferIdentity ::= INTEGER (0..255)

MCIDRequestIndicator ::= ENUMERATED
{
  mCIDNotRequested(0),
  mCIDRequested(1)
}

MCIDResponseIndicator ::= ENUMERATED
{
  mCIDNotIncluded(0),
  mCIDIncluded(1)
}

LoopPreventionRequest ::= ENUMERATED
{
  notUsed(0)
}

LoopPreventionResponse ::= ENUMERATED
{
  noInformation(0),
  noLoopExists(1),
  simultaneousTransfer(2)
}
```

**Page 85, NumberIncompleteIndicator**

Delete "-- for national use" for "incomplete(1)".

**Page 87**

Insert after the definition of VPCICheckResultIndicator:

```
CCBSCallIndicator ::= ENUMERATED
{
  noIndication(0),
  cCBSCall(1)
}
```

## History

Document history	
April 1996	Public Enquiry PE 105: 1996-04-08 to 1996-08-30