EUROPEAN TELECOMMUNICATION STANDARD

ETS 300 356-1

February 1995

Source: ETSI TC-SPS

Reference: DE/SPS-6001

ICS: 33.080

Key words: ISDN, SS7, ISUP, basic

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]

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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 1 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".

NOTE: Part 13 has been withdrawn.

Transposition dates	
Date of latest announcement of this ETS (doa):	31 May 1995
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	30 November 1995
Date of withdrawal of any conflicting National Standard (dow):	30 November 1995

Endorsement notice

The text of ITU-T Recommendations Q.761, Q.762, Q.763 and Q.764 (1993) was approved by ETSI as an ETS with agreed modifications as given below.

Global modifications to ITU-T Recommendations Q.761 to Q.764

Insert the following four clauses (scope, normative references, definitions, and abbreviations):

Scope

This first part of ETS 300 356 specifies procedures to support basic bearer services and supplementary services defined for the pan-European Integrated Services Digital Network (ISDN) as provided by the European public telecommunications operators by means of the Signalling System No.7 protocol for the ISDN User Part (ISUP).

This ETS does not specify the additional protocol requirements where the service is provided to the user via a telecommunications network that is not an 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, if any, marked for national use are included for informative purposes only.

NOTE: 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 the international network.

This ETS is compatible with ETS 300 121 [5] (CCITT Recommendation Q.767).

Descriptions of interworking with CCITT Blue Book (1988) exchanges are informative only.

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 amendments or revision. For undated references the latest edition of the publication referred to applies.

[1] CCITT Recommendation E.164 (1991): "Numbering plan for the ISDN era".

[2] ITU-T Recommendation I.112 (1993): "Vocabulary of terms for ISDNs".

[3] CCITT Recommendation I.210 (1993): "Principles of telecommunication services supported by an ISDN and the means to describe them".

[4] ITU-T Recommendation Q.850 (1993): "Usage of cause and location in the digital subscriber signalling system No.1 and the signalling system No.7 ISDN user part".

[5] ETS 300 121 (1992): "Integrated Services Digital Network (ISDN); Application of the ISDN User Part (ISUP) of CCITT Signalling System No.7 for international ISDN interconnections (ISUP version 1)".

[6] 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]".

[7] 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]".

[8] 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]".

[9] 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]".

[10] 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]".

[11] 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]".

[12] 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]".

[13] 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]".

[14] 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]".

[15] 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".

[16] 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]".

[17] 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".

[18] 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]".

[19] 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]".

[20] 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]".

[21] 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".

[22] 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]".

[23] ETS 300 403-1: "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1); User-network interface layer 3 specification for basic call control; Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified]".

Definitions

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

Integrated Services Digital Network (ISDN): See ITU-T Recommendation I.112 [2], definition 308.

service; telecommunication service: See ITU-T Recommendation I.112 [2], definition 201.

subaddress: See CCITT Recommendation E.164 [1], § 12.2.

supplementary service: See ITU-TT Recommendation I.210 [3], subclause 2.4.

Abbreviations

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

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
COLP	Connected Line Identification Presentation
COLR	Connected Line Identification Restriction

CONF	Conference call, add-on
CUG	Closed User Group
CW	Call Waiting
ECT	Explicit Call Transfer
FPH	Freephone
HOLD	Call Hold
ISDN	Integrated Services Digital Network
ISUP	ISDN User Part
MCID	Malicious Call Identification
MLPP	Multi-Level Precedence and Preemption
SUB	Subaddressing
TP	Terminal Portability
UUS	User-to-User Signalling

Throughout the text of ITU-T Recommendations Q.761 to Q.764

Replace references as shown below.

Reference in ITU-T Recommendations Q.761 to Q.764	**Modified reference**
ITU-T Recommendation Q.730	ITU-T Recommendation Q.730 as modified by ETS 300 356-2 [6]
ITU-T Recommendation Q.731.3	ITU-T Recommendation Q.731.3 as modified by ETS 300 356-3 [7]
ITU-T Recommendation Q.731.4	ITU-T Recommendation Q.731.4 as modified by ETS 300 356-4 [8]
ITU-T Recommendation Q.731.5	ITU-T Recommendation Q.731.5 as modified by ETS 300 356-5 [9]
ITU-T Recommendation Q.731.6	ITU-T Recommendation Q.731.6 as modified by ETS 300 356-6 [10]
ITU-T Recommendation Q.731.7	ETS 300 356-11 [15]
ITU-T Recommendation Q.731.8	ITU-T Recommendation Q.731.8 as modified by ETS 300 356-10 [14]
ITU-T Recommendation Q.732.2	ITU-T Recommendation Q.732.2 as modified by ETS 300 356-15 [18]
ITU-T Recommendation Q.732.3	ITU-T Recommendation Q.732.3 as modified by ETS 300 356-15 [18]
ITU-T Recommendation Q.732.4	ITU-T Recommendation Q.732.4 as modified by ETS 300 356-15 [18]
ITU-T Recommendation Q.732.5	ITU-T Recommendation Q.732.5 as modified by ETS 300 356-15 [18]
ITU-T Recommendation Q.732.7	ETS 300 356-14 [17]
ITU-T Recommendation Q.733.1	ITU-T Recommendation Q.733.1 as modified by ETS 300 356-17 [20]
ITU-T Recommendation Q.733.2	ITU-T Recommendation Q.733.2 as modified by ETS 300 356-16 [19]
ITU-T Recommendation Q.733.3	ETS 300 356-18 [21]
ITU-T Recommendation Q.733.4	ITU-T Recommendation Q.733.4 as modified by ETS 300 356-7 [11]
ITU-T Recommendation Q.734.1	ITU-T Recommendation Q.734.1 as modified by ETS 300 356-12 [16]
ITU-T Recommendation Q.734.2	ITU-T Recommendation Q.734.2 as modified by ETS 300 356-19 [22]
ITU-T Recommendation Q.735.1	ITU-T Recommendation Q.735.1 as modified by ETS 300 356-9 [13]
ITU-T Recommendation Q.737.1	ITU-T Recommendation Q.737.1 as modified by ETS 300 356-8 [12]
ITU-T Recommendation Q.761	ITU-T Recommendation Q.761 as modified by this ETS
ITU-T Recommendation Q.762	ITU-T Recommendation Q.762 as modified by this ETS
ITU-T Recommendation Q.763	ITU-T Recommendation Q.763 as modified by this ETS
ITU-T Recommendation Q.764	ITU-T Recommendation Q.764 as modified by this ETS
ITU-T Recommendation Q.767	ETS 300 121 [5]
ITU-T Recommendation Q.931	ITU-T Recommendation Q.931 as modified by ETS 300 403-1 [23]

Modifications to ITU-T Recommendation Q.761

Page 3, table 1/Q.761

Replace table 1/Q.761 by:

Function/service	National use according to ITU-T	International use according to ITU-T	International use according to this ETS
Basic call			
Speech/3,1 kHz audio	+	+	+
64 kbit/s unrestricted	+	+	+
Multirate connection types (Note)	+	+	+
Signalling procedures for connection type allowing fallback capability	+	+	+
Compatibility procedure	+	+	+
Confusion procedure	+	+	+
Simple segmentation	+	+	+
User part availability control	+	+	+
Propagation delay determination procedure	+	+	+
Dynamic echo control procedure	+	+	+
Tones and announcements	+	+	+
MTP pause and resume	+	+	+
Access delivery information	+	+	+
Transportation of user teleservice information	+	+	+
Generic signalling procedures for supplementary services			
End-to-end signalling - Pass along method	+	-	-
End-to-end signalling - SCCP connection oriented	+	+	+
End-to-end signalling - SCCP connectionless	+	-	-
Generic number transfer	+	+	+
Generic digit transfer	+	-	-
Generic notification procedure	+	+	+
Simple activation procedure	+	-	+
Remote operations procedure	+	-	-
Network specific facility procedures	+	-	-
Supplementary services			
DDI	+	+	+
MSN	+	+	+
CLIP/CLIR	+	+	+
COLP/COLR	+	+	+
MCID	+	+	+
SUB	+	+	+
TP	+	+	+
CFU, CFB, CFNR	+	+	+
CD	+	+	+
CW	+	+	+
HOLD	+	+	+
CONF	+	+	+
3PTY	+	+	+
CUG	+	+	+
MLPP	+	+	-
UUS, service 1 (implicit)	+	+	+
UUS, service 1 (explicit)	+	+	+
UUS, service 2	+	+	+
UUS, service 3	+	+	+
ECT	-	-	+
CCBS	-	-	+
FPH	-	-	+
Key: + support - non-support			
NOTE: Multirate connection types are 2 × 64, 384, 1 536 and 1 920 kbit/s.			

Modifications to ITU-T Recommendation Q.762

Page 2, item 1.24

Delete "(national use)".

Page 3, item 1.33

Insert the following after item 1.33:

1.33A loop prevention message (LOP): A message sent in either direction when the loop prevention procedure is performed.

Page 3, item 1.37

Delete "and the redirecting address" at the end of the text.

Page 4

Insert the following after item 2.11:

2.11A call transfer number: The call transfer number parameter is used to exchange the remote party number of the users involved in the transferred call.

2.11B 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.

Page 4, item 2.18

Delete "(national use)".

Page 5, item 2.22

Replace "Recommendation Q.6xx" by "Recommendation Q.850".

Add the following note:

NOTE: Exceptions and clarifications to ITU-T Recommendation Q.850 [4] are given in annex ZB of this ETS.

Page 5

Insert the following after item 2.22:

2.22A 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.

2.22B CCBS parameter: Information sent in an Initial address message indicating that this call is a CCBS call.

Page 6, item 2.43

Add "(national use)".

Page 7

Insert the following after item 2.51:

2.51A Freephone indicators: Information sent in forward direction indicating whether the call is a freephone call or not.

Page 8, item 2.74

Delete the last sentence "Definition (...) Q.6xx".

Page 8, item 2.75

Add the following:

Definition of each location value is given in ITU-T Recommendation Q.850 [4].

NOTE: Exceptions and clarifications to ITU-T Recommendation Q.850 [4] are given in annex ZB of this ETS.

Page 8, item 2.77

Add "(national use)".

Page 8

Insert the following after item 2.77:

2.77A loop prevention indicators: Information sent in a Loop prevention message in either direction in association with a request (or a response to a request) when the loop prevention procedure is performed.

Page 8, item 2.82

Add "(national use)".

Page 8, item 2.83

Add "(national use)".

Page 9, item 2.108

Add "(national use)".

Page 12, item 2.120

Replace the complete text by:

No facilities exist for this indicator.

Page 12, item 2.135

Delete "(national use)".

Page 13, item 2.138

Replace "an information message (unsolicited)" by "a segmentation message".

Modifications to ITU-T Recommendation Q.763

Page 1, clause 1, first paragraph

Insert after the first paragraph:

It is not necessary to check the parameter values of the parameters that are not under control of ISUP (e.g. User service information, User service information prime, User teleservice information).

Page 7, table 4/Q.763

Modify table 4/Q.763 as follows:

Message type	Reference (Table)	Code
Facility ~~(national use)~~	45	0011 0011
Loop prevention	28A	0100 0000

Page 8, table 5/Q.763

Modify table 5/Q.763 as follows:

Parameter name	Reference (subclause)	Code
Call transfer number	3.8A	0100 0101
Call transfer reference	3.8B	0100 0011
CCBS parameter	3.12A	0100 1011
Freephone indicators ~~(reserved)~~	3.23A	0100 0001
Information request indicators (national use)	3.29	0000 1110
Loop prevention indicators	3.30A	0100 0100
MLPP precedence (national use)	3.34	0011 1010
Service activation ~~(national use)~~	3.49	0011 0011

Page 9, subclause 3.2

Delete "(open)" in the subclause title.

Page 11, subclause 3.5, bit I

Modify as follows:

bit	I:	Interworking indicator (Note 2)
	0	no interworking encountered (No.7 signalling all the way)
	1	interworking encountered

Page 13

Insert two new subclauses:

3.8A Call transfer number

The format and coding of the call transfer number are shown in subclause 3.10.

3.8B Call transfer reference

The format of the call transfer reference parameter field is shown in figure 9A.

	8	7	6	5	4	3	2	1
1	Call transfer identity							

Figure 9A: Call transfer reference parameter field

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

Page 15, subclause 3.10, item b

Add "(national use)" to "subscriber number".

Delete "(national use)" from "national (significant) number".

Page 15, subclause 3.10, item c

Delete "(national use)" from "Calling party incomplete indicator (NI)".

Page 17, subclause 3.12, last paragraph

Replace "the Q.6XX-Series Recommendations" by "Recommendation Q.850".

Page 17

Insert a new subclause:

3.12A CCBS parameter

The format of the CCBS parameter field is shown in figure 13A.

8	7	6	5	4	3	2	1
H	G	F	E	D	C	B	A

Figure 13A: CCBS parameter field

The following codes are used in the CCBS parameter field:

bit A: CCBS call indicator
0 no indication
1 CCBS call

bits H-B: Spare

Page 20, subclause 3.16, item b

Replace reference "see 3.9 b)" by "see 3.10 b)".

Page 20, subclause 3.17

Delete "(open)" in the subclause title.

Page 23, subclause 3.21, bits GFEDCBA

Add "(national use)" to "call forwarded on busy", "call forwarded on no reply" and "call forwarded unconditional", respectively.

Page 24

Insert a new subclause:

3.23A Freephone indicators

The format of the freephone indicators parameter field is shown in figure 23A.

8	7	6	5	4	3	2	1
H	G	F	E	D	C	B	A

Figure 23A: Freephone indicators parameter field

The following codes are used in the freephone indicators parameter field:

bit A: Freephone indicator
0 no indication
1 freephone call

bits H-B: Spare

Page 27, subclause 3.26, item a

Modify code range 0000 1010 to 0111 1111 as follows:

0000 1010 called freephone number

0000 1011 to 0111 1111 reserved (spare)

Page 32, subclause 3.30, item e, note 3

Delete note 3.

Page 32

Insert a new subclause:

3.30A Loop prevention indicators

The format of the loop prevention indicators parameter field is shown in figure 30A.

8	7	6	5	4	3	2	1
H	G	F	E	D	C	B	A

Figure 30A: Loop prevention indicators parameter field

The following codes are used in the loop prevention indicators parameter field:

bit	A:	Type
	0	request
	1	response

If bit A = 0 (request):

bits	H-B:	Spare

If bit A = 1 (response):

bits	CB:	Response indicator
	00	insufficient information (note)
	01	no loop exists
	10	simultaneous transfer
	11	spare

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

bits	H-D:	Spare

Page 34, subclause 3.34

Add "(national use)" to the subclause title.

Page 37, subclause 3.37, bit D

Add "(national use)" to "MLPP user indicator".

Page 39, subclause 3.39, item b

Replace reference "see 3.9 b)" by "see 3.10 b)".

Page 40, subclause 3.41, item b, bits G-F

Replace the definition of bits G-F by:

bits	GF:	Pass on not possible indicator
	00	release call
	01	discard message
	10	discard parameter
	11	spare

Page 42, subclause 3.44, item b

Replace reference "see 3.9 b)" by "see 3.10 b)".

Page 43, subclause 3.46, item b

Replace reference "see 3.9 b)" by "see 3.10 b)".

Page 54, subclause 3.49

Delete "(national use)" in the subclause title.

Modify code range 0000 0000 to 0111 1011 as follows:

0000 0000	reserved for international use
0000 0001	call transfer
0000 0010 ⋮ 0111 1011	reserved for international use

Page 61, table 21/Q.763

Modify table 21/Q.763 as follows:

Message Type: Address complete

Parameter	Reference (subclause)	Type	Length (octets)
⋮	⋮	⋮	⋮
Service activation ~~(national use)~~	3.49	O	3-?
⋮	⋮	⋮	⋮

Page 61, table 22/Q.763

Modify table 22/Q.763 as follows:

Message Type: Answer

Parameter	Reference (subclause)	Type	Length (octets)
⋮	⋮	⋮	⋮
Generic number (Note)	3.26	O	5-13
⋮	⋮	⋮	⋮
Remote operations (national use)	3.48	O	3-?
⋮	⋮	⋮	⋮
Service activation ~~(national use)~~	3.49	O	3-?
⋮	⋮	⋮	⋮

Page 62, table 23/Q.763

Modify table 23/Q.763 as follows:

Message Type: Call progress

Parameter	Reference (subclause)	Type	Length (octets)
⋮	⋮	⋮	⋮
Remote operations (national use)	3.48	O	3-?
⋮	⋮	⋮	⋮
Service activation ~~(national use)~~	3.49	O	3-?
Call transfer number	3.8A	O	5-12
⋮	⋮	⋮	⋮

Page 63, table 27/Q.763

Modify table 27/Q.763 as follows:

Message Type:Connect

Parameter	Reference (subclause)	Type	Length (octets)
⋮	⋮	⋮	⋮
Remote operations (national use)	3.48	O	3-?
⋮	⋮	⋮	⋮
Service activation ~~(national use)~~	3.49	O	3-?
Generic number (Note)	3.26	O	5-13
⋮	⋮	⋮	⋮

Page 64, table 30/Q.763

Modify table 30/Q.763 as follows:

Message Type:Information (national use)

Parameter	Reference (subclause)	Type	Length (octets)
⋮	⋮	⋮	⋮
Calling party number	3.10	O	4-12
⋮	⋮	⋮	⋮

Page 65, table 32/Q.763

Modify table 32/Q.763 as follows:

Message Type:Initial address

Parameter	Reference (subclause)	Type	Length (octets)
⋮	⋮	⋮	⋮
User teleservice information ~~prime~~	~~3.58~~ 3.59	O	~~7~~ 4-5
Remote operations (national use)	3.48	O	3-?
⋮	⋮	⋮	⋮
Service activation ~~(national use)~~	3.49	O	3-?
CCBS parameter	3.12A	O	3
Freephone indicators	3.23A	O	3
Generic reference (reserved) ~~(Note 2)~~	3.27	O	5-?
MLPP precedence (national use)	3.34	O	8
⋮	⋮	⋮	⋮

Page 66, table 33/Q.763

Modify table 33/Q.763 as follows:

Message Type:Release

Parameter	Reference (subclause)	Type	Length (octets)
⋮	⋮	⋮	⋮
Automatic congestion level	3.4	O	3
⋮	⋮	⋮	⋮

Page 69, table 44/Q.763

Modify table 44/Q.763 as follows:

Message Type:User part test
User part available

Parameter	Reference (subclause)	Type	Length (octets)
⋮	⋮	⋮	⋮
~~Parameter~~ Message compatibility information	~~3.41~~ 3.33	O	~~4-?~~ 3-?
⋮	⋮	⋮	⋮

Page 69, table 45/Q.763

Modify table 45/Q.763 as follows:

Message Type:Facility ~~(national use)~~

Parameter	Reference (subclause)	Type	Length (octets)
⋮	⋮	⋮	⋮
Message compatibility information	3.33	O	3-?
⋮	⋮	⋮	⋮
Remote operations (national use)	3.48	O	3-?
Call transfer number	3.8A	O	5-12
Access transport	3.3	O	3-?
Generic notification indicator	3.25	O	3
⋮	⋮	⋮	⋮

Page 69, table 46/Q.763

Modify table 46/Q.763 as follows:

Message Type:Network resource management

Parameter	Reference (subclause)	Type	Length (octets)
⋮	⋮	⋮	⋮
Message compatibility information	3.33	O	3-?
⋮	⋮	⋮	⋮

Page 70, table 47/Q.763

Modify table 47/Q.763 as follows:

Message Type:Identification request

Parameter	Reference (subclause)	Type	Length (octets)
⋮	⋮	⋮	⋮
Message compatibility information	3.33	O	3-?
⋮	⋮	⋮	⋮

Page 70, table 48/Q.763

Modify table 48/Q.763 as follows:

Message Type:Identification response

Parameter	Reference (subclause)	Type	Length (octets)
⋮	⋮	⋮	⋮
Message compatibility information	3.33	O	3-?
⋮	⋮	⋮	⋮
Calling party number	3.10	O	4-12
⋮	⋮	⋮	⋮

Page 70, table 49/Q.763

Modify table 49/Q.763 as follows:

Message Type:Segmentation

Parameter	Reference (subclause)	Type	Length (octets)
⋮	⋮	⋮	⋮
Message compatibility information	3.33	O	3-?
Generic digit (national use) (Note)	3.24	O	?
⋮	⋮	⋮	⋮

Page 70

Add a new table:

Table 49A

Message Type:Loop prevention

Parameter	Reference (subclause)	Type	Length (octets)
Message type	2.1	F	1
Loop prevention indicators	3.30A	O	3
Call transfer reference	3.8B	O	3
Message compatibility information	3.33	O	3-?
Parameter compatibility information	3.41	O	4-?
End of optional parameters	3.20	O	1

Page 71, annex A

Annex A has the status of a normative annex.

Page 80, table A.3/Q.763 (sheet 4 of 4)

Insert two new entries:

Reference (subclause)	Title	Action
⋮	⋮	⋮
3.44	Redirecting number	As indicated in 3.10 in this table
3.46	Redirection number	As indicated in 3.10 in this table
⋮	⋮	⋮

Page 81, annex B

Annex B has the status of an informative annex for national use.

Modifications to ITU-T Recommendation Q.764

Page 14, subclause 2.1.4.7, second sentence

Modify the second sentence:

On speech, 64 kbit/s unrestricted preferred and 3,1 kHz calls and call to an analogue called party, the awaiting answer indication is applied to the transmission path to the calling party from the destination exchange on receipt of an alerting indication from the called party or from information contained within the destination exchange that the called party will not or is prohibited from providing in-band tone.

Page 48, subclause 2.9.1.3, last paragraph

The last paragraph "It is necessary (...) with long propagation time" is applicable to both methods described.

Page 51, subclause 2.9.4, second paragraph

Modify the second paragraph:

If the appropriate acknowledgement is not received within a period of 5-15 minutes (T13, T15, T19, T21 appropriately) after sending the initial blocking (unblocking) message or group blocking (unblocking) message, the maintenance system should be alerted, the repetition of the blocking (unblocking) message or circuit group blocking (unblocking) message should be continued at ~~one~~ 5-15 minute intervals (T13, T15, T19, T21 appropriately) until maintenance intervention occurs and the circuit(s) taken out of (returned to) service as appropriate.

Page 66, annex A

Annex A has the status of a normative annex.

Page 70, annex B

Annex B has the status of an informative annex.

Page 74, annex C

Annex C has the status of an informative annex.

Page 82, annex D

Annex D has the status of an informative annex.

Page 85, annex E

Annex E has the status of an informative annex.

Page 86, annex F

Annex F has the status of a normative annex.

Add the following note:

NOTE: Exceptions and clarifications to ITU-T Recommendation Q.850 [4] are given in annex ZB of this ETS.

Page 86, annex G

Annex G has the status of a normative annex.

Annex ZA (normative): Coding of the compatibility information for basic call procedures

ZA.1 Successful call set-up

ZA.1.1 New messages

ZA.1.1.1 Segmentation

a) Instruction indicators

bit A: Transit at intermediate exchange indicator
0 transit interpretation

bit B: Release call indicator
0 do not release call

bit C: Send notification indicator
0 do not send notification

bit D: Discard message indicator
0 do not discard message (pass on)

bit E: Pass on not possible indicator
1 discard information

b) Extension indicator
1 last octet

ZA.1.2 New parameters

ZA.1.2.1 Location number

a) N^{th} upgraded parameter
0011 1111 location number

b) Instruction indicators

bit A: Transit at intermediate exchange indicator
0 transit interpretation

bit B: Release call indicator
0 do not release call

bit C: Send notification indicator
0 do not send notification

bit D: Discard message indicator
0 do not discard message (pass on)

bit E: Discard parameter indicator
0 do not discard parameter (pass on)

bits GF: Pass on not possible indicator
10 discard parameter

c) Extension indicator
1 last octet

ZA.1.2.2 Origination ISC point code

a) N^{th} upgraded parameter
0010 1011 origination ISC point code

b) Instruction indicators

bit A: Transit at intermediate exchange indicator
0 transit interpretation

bit B: Release call indicator
0 do not release call

bit C: Send notification indicator
0 do not send notification

bit D: Discard message indicator
0 do not discard message (pass on)

bit E: Discard parameter indicator
1 discard parameter

bits GF: Pass on not possible indicator
10 discard parameter

c) Extension indicator
1 last octet

ZA.2 Transportation of user teleservice information

ZA.2.1 New parameters

ZA.2.1.1 User teleservice information

a) N^{th} upgraded parameter
0011 0100 user teleservice information

b) Instruction indicators

bit A: Transit at intermediate exchange indicator
0 transit interpretation

bit B: Release call indicator
0 do not release call

bit C: Send notification indicator
0 do not send notification

bit D: Discard message indicator
0 do not discard message (pass on)

bit E: Discard parameter indicator
0 do not discard parameter (pass on)

bits GF: Pass on not possible indicator
10 discard parameter

c) Extension indicator
1 last octet

ZA.3 Access delivery information

ZA.3.1 New parameters

ZA.3.1.1 Access delivery information

a) N^{th} upgraded parameter
0010 1110 access delivery information

b) Instruction indicators

bit A: Transit at intermediate exchange indicator
0 transit interpretation

bit B: Release call indicator
0 do not release call

bit C: Send notification indicator
0 do not send notification

bit D: Discard message indicator
0 do not discard message (pass on)

bit E: Discard parameter indicator
0 do not discard parameter (pass on)

bits GF: Pass on not possible indicator
10 discard parameter

c) Extension indicator
1 last octet

ZA.4 Signalling procedures for connection type allowing fallback capability

ZA.4.1 New parameters

ZA.4.1.1 Transmission medium requirement prime

a) N^{th} upgraded parameter
0011 1110 transmission medium requirement prime

b) Instruction indicators

bit A: Transit at intermediate exchange indicator
1 end node interpretation

bit B: Release call indicator
0 do not release call

bit C: Send notification indicator
0 do not send notification

bit D: Discard message indicator
0 do not discard message (pass on)

bit E: Discard parameter indicator
1 discard parameter

bits GF: Pass on not possible indicator
10 discard parameter

c) Extension indicator
1 last octet

ZA.4.1.2 Transmission medium used

a) N^{th} upgraded parameter
0011 0101 transmission medium used

b) Instruction indicators

bit A: Transit at intermediate exchange indicator
1 end node interpretation

bit B: Release call indicator
0 do not release call

bit C: Send notification indicator
0 do not send notification

bit D: Discard message indicator
0 do not discard message (pass on)

bit E: Discard parameter indicator
1 discard parameter

bits GF: Pass on not possible indicator
10 discard parameter

c) Extension indicator
1 last octet

ZA.4.1.3 User service information prime

a) N^{th} upgraded parameter
0011 0000 user service information prime

b) Instruction indicators

bit A: Transit at intermediate exchange indicator
1 end node interpretation

bit B: Release call indicator
0 do not release call

bit C: Send notification indicator
0 do not send notification

bit D: Discard message indicator
0 do not discard message (pass on)

bit E: Discard parameter indicator
1 discard parameter

bits GF: Pass on not possible indicator
10 discard parameter

c) Extension indicator
1 last octet

ZA.5 Propagation delay determination

ZA.5.1 New parameters

ZA.5.1.1 Call history information

a) N^{th} upgraded parameter
0010 1101 call history information

b) Instruction indicators

bit A: Transit at intermediate exchange indicator
0 transit interpretation

bit B: Release call indicator
0 do not release call

bit C: Send notification indicator
0 do not send notification

bit D: Discard message indicator
0 do not discard message (pass on)

bit E: Discard parameter indicator
0 do not discard parameter (pass on)

bits GF: Pass on not possible indicator
10 discard parameter

c) Extension indicator
1 last octet

ZA.5.1.2 Propagation delay counter

a) N^{th} upgraded parameter
0011 0001 propagation delay counter

b) Instruction indicators

bit A: Transit at intermediate exchange indicator
0 transit interpretation

bit B: Release call indicator
0 do not release call

bit C: Send notification indicator
0 do not send notification

bit D: Discard message indicator
0 do not discard message (pass on)

bit E: Discard parameter indicator
0 do not discard parameter (pass on)

bits GF: Pass on not possible indicator
10 discard parameter

c) Extension indicator
1 last octet

ZA.6 ISDN user part availability control

ZA.6.1 New messages

ZA.6.1.1 User part test

a) Instruction indicators

bit A: Transit at intermediate exchange indicator
1 end node interpretation

bit B: Release call indicator
0 do not release call

bit C: Send notification indicator
1 send notification

bit D: Discard message indicator
1 discard message

bit E: Pass on not possible indicator
1 discard information

b) Extension indicator
1 last octet

ZA.6.1.2 User part available

a) Instruction indicators

bit A: Transit at intermediate exchange indicator
1 end node interpretation

bit B: Release call indicator
0 do not release call

bit C: Send notification indicator
0 do not send notification

bit D: Discard message indicator
1 discard message

bit E: Pass on not possible indicator
1 discard information

b) Extension indicator
1 last octet

ZA.7 Echo control procedure

ZA.7.1 New messages

ZA.7.1.1 Network resource management

a) Instruction indicators

bit A: Transit at intermediate exchange indicator
0 transit interpretation

bit B: Release call indicator
0 do not release call

bit C: Send notification indicator
0 do not send notification

bit D: Discard message indicator
0 do not discard message (pass on)

bit E: Pass on not possible indicator
1 discard information

b) Extension indicator
1 last octet

ZA.7.2 New parameters

ZA.7.2.1 Echo control information

a) N^{th} upgraded parameter
0011 0111 echo control information

b) Instruction indicators

bit A: Transit at intermediate exchange indicator
0 transit interpretation

bit B: Release call indicator
0 do not release call

bit C: Send notification indicator
0 do not send notification

bit D: Discard message indicator
0 do not discard message (pass on)

bit E: Discard parameter indicator
0 do not discard parameter (pass on)

bits GF: Pass on not possible indicator
10 discard parameter

c) Extension indicator
1 last octet

Annex ZB (normative): Exceptions and clarifications to ITU-T Recommendation Q.850

Page 4, table 1/Q.850 (sheet 1 of 8), cause #17:

Add in column "Application": FPH, CCBS.

Add in column "Reference": ETS 300 356-18 [21]

Page 5, table 1/Q.850 (sheet 2 of 8), cause #21:

Add in column "Application": FPH, CW.

Add in column "Reference": ETS 300 356-17 [20].

Page 6, table 1/Q.850 (sheet 3 of 8), cause #28:

Add in column "Application": FPH.

Page 6, table 1/Q.850 (sheet 3 of 8), cause #29:

Add in column "Application": FPH.

Page 7, table 1/Q.850 (sheet 4 of 8), cause #34:

Add in column "Diagnostics": CCBS indicator.

Add in column "Application": CCBS.

Add in column "Reference": ETS 300 356-18 [21].

Page 8, table 1/Q.850 (sheet 5 of 8), cause #42:

Add in column "Application": FPH.

Page 8, table 1/Q.850 (sheet 5 of 8), cause #63:

Add in column "Application": FPH.

Page 11, table 1/Q.850 (sheet 8 of 8), cause #110:

Add in column "Reference": 2.9.5.2/Q.764, 2.9.5.3/Q.764.

History

Document history	
February 1995	First Edition
January 1996	Converted into Adobe Acrobat Portable Document Format (PDF)

ISBN 2-7437-0054-8 - Edition complète
ISBN 2-7437-0055-6 - Partie 1
Dépôt légal : Février 1995