SWEDISH STANDARD SS 63 63 93

Handläggande organ/Standardizing body	Fastställd/Approved	Utgåva/Edition	Sida/Page
ITS Information Technology Standardization	2000-03-14	1	1 (23)

PSTN-ISDN-PLMN ISUP Signalling interface for SWEDEN

ISUP-gränssnittet mellan teleoperatörer (både mobiltelenätet och fasta telenätet) vid nationell samtrafik

A Swedish National Standard for ISUP signalling between public telecommunications operators (of both public land mobile networks and fixed public telecommunications networks) in Sweden in national interconnections.

Contents

ICS 33.040.30

Upplysningar om **sakinnehållet** i standarden lämnas av ITS.
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Preface

This standard is produced by Working Group 15, AG 15 Team ISUP of Information Technology Standardisation, ITS. Members of the group have been interested parties representing the telecommunications operators and industry.

Introduction

This standard describes the requirements imposed on the public telecommunications network interface between public telecommunications operators in Sweden, for the support of public telecommunications services.

Since ITU-T Q.761-764 does not cover all requirements, some parameters and procedures have been added for alignment with national requirements or ETSI standards . The supplementary services are based on ITU-T Q.731-737. Functions, procedures or information elements marked for “national use” in the basic documents are supported by this standard. No information element marked as “reserved” is included in this standard and is therefore not supported on the interface. Any information added to the basic documents is marked with either “ETSI alignment” or “Swedish national requirement”.

1 Scope

The scope of this standard is to define a national interconnection interface between public telecommunications operators based on ISDN standards. Since this standard specifies an interface between public telecommunications operators, procedures and actions performed within the operators' networks are outside the scope of this standard.

It is assumed that the public telecommunication operator concerned signs mutual commercial agreements on the interconnection, traffic cases, services, traffic volumes, accounting procedures, prices etc. The extent to which the ISUP specification shall be applied will be settled in the agreements. The telecommunications operators can agree on deviations from the ISUP specification.

This standard is based on ITU-T Q.730-737, Q.761-765 and Q.850 (ITU-T ISUP approved 1999). This standard consists of comments on, amendments to or deletions in the ITU-T Recommendations. The paragraph numbers refer to the paragraph numbers in the ITU-T Rec. Q.730-737, Q.761-765 and Q.850.

2 References

The following documents contain provisions, which, through reference in this text, constitute provisions of this Swedish standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the documents indicated below. For undated references, the latest edition of the document referred to applies.

2.1 Normative References

ITU-T Rec. Q.730, 03/99	ISDN User Part supplementary services
ITU-T Rec. Q.731.3-6, 03/93	Stage 3 description for numbering identification supplementary services using Signalling System No. 7: CLIP, CLIR, COLP, COLR
ITU-T Rec. Q.731.7, 06/97	Stage 3 description for numbering identification supplementary services using Signalling System No. 7: Malicious call identifiaction (MCID)
ITU-T Rec. Q.732.2, 03/99	Stage 3 description for call offering supplementary services using Signalling System No. 7: Call diversion services
ITU-T Rec. Q.732.7, 07/96	Stage 3 description for call offering supplementary services using Signalling System No. 7: Explicit call transfer
ITU-T Rec. Q.733.1, 02/92	Stage 3 description for call completion supplementary services using Signalling System No. 7: Call Waiting (CW)
ITU-T Rec. Q.733.2 and 4, 03/93	Stage 3 description for call completion supplementary services using Signalling System No. 7, HOLD, TP
ITU-T Rec. Q.733.3, 06/97	Stage 3 description for call completion supplementary services using Signalling System No. 7: Completion of calls to busy subscriber (CCBS)
ITU-T Rec. Q.733.5, 03/99	Stage 3 description for call completion supplementary services using Signalling System No. 7: Completion of Calls on No Reply (CCNR)
ITU-T Rec. Q.734, 03/93	Stage 3 description for multiparty supplementary services using Signalling System No. 7, Conference calling

ITU-T Rec. Q.734.2, 07/96	Stage 3 description for multiparty supplementary services using Signalling System No. 7: Three-party service
ITU-T Rec. Q.735.1 and 3, 03/93	Stage 3 description for community of interest supplementary services using Signalling System No. 7, CUG and MLPP
ITU-T Rec. Q.737.1, 06/96	Stage 3 description for additional information transfer supplementary services using Signalling System No. 7: User-to-user signalling (UUS)
ITU-T Rec. Q.761, 03/99	Signalling System No.7 – ISDN User Part functional description
ITU-T Rec. Q.763, 03/99	Signalling System No. 7 – ISDN User Part formats and codes
ITU-T Rec. Q.764, 03/99	Signalling System No. 7 – ISDN User Part signalling procedures
ITU-T Rec. Q.765, 05/98	Signalling System No.7; ISDN User Part; Application Transport Mechanism (APM)
ITU-T Rec. Q.765.1, 05/98	Signalling System No.7; ISDN User Part; Application transport mechanism: Support of VPN applications with PSS1 information flows
ITU-T Rec. Q.850, 05/98	Usage of cause and location in the Digital Subscriber Signalling System No. 1 and the Signalling System No. 7 ISDN User Part
ETSI EN 300 356-1, V3.2.2, 1998-08	ISDN User Part (ISUP) vers. 3 for the international interface, Part 1: Basic services
ETSI EN 300 356-2, V3.2.2, 1998-08	ISDN User Part (ISUP) vers. 3 for the international interface, Part 2: ISDN supplementary services
ETSI EN 300 356-3, V3.1.3, 1998-08	ISDN User Part (ISUP) vers. 3 for the international interface, Part 3: Calling Line Identification Presentation (CLIP) supplementary service
ETSI EN 300 356-4, V3.1.3, 1998-08	ISDN User Part (ISUP) vers. 3 for the international interface, Part 4: Calling Line Identification Restriction (CLIR) supplementary service
ETSI EN 300 356-5, V3.1.3, 1998-08	ISDN User Part (ISUP) vers. 3 for the international interface, Part 5: Connected Line Identification Presentation (COLP) supplementary service
ETSI EN 300 356-6, V3.1.3, 1998-08	ISDN User Part (ISUP) vers. 3 for the international interface, Part 6: Connected Line Identification Restriction (COLR) supplementary service
ETSI EN 300 356-7, V3.1.3, 1998-08	ISDN User Part (ISUP) vers. 3 for the international interface, Part 7: Terminal Portability (TP) supplementary service
ETSI EN 300 356-8, V3.1.3, 1998-08	ISDN User Part (ISUP) vers. 3 for the international interface, Part 8: User-to-User Signalling (UUS) supplementary service
ETSI EN 300 356-9, V3.1.3, 1998-08	ISDN User Part (ISUP) vers. 3 for the international interface, Part 9: Closed User Group (CUG) supplementary service

ETSI EN 300 356-11, V3.1.3, 1998-08	ISDN User Part (ISUP) vers. 3 for the international interface, Part 11: Malicious Call Identification (MCID) supplementary service
ETSI EN 300 356-12, V3.1.3, 1998-08	ISDN User Part (ISUP) vers. 3 for the international interface, Part 12: Conference Call, add-on (CONF) supplementary service
ETSI EN 300 356-14, V3.1.3, 1998-08	ISDN User Part (ISUP) vers. 3 for the international interface, Part 14: Explicit Call Transfer (ECT) supplementary service
ETSI EN 300 356-15, V3.2.8, 1998-09	ISDN User Part (ISUP) vers. 3 for the international interface, Part 15: Diversion supplementary service
ETSI EN 300 356-16, V3.2.8, 1998-08	ISDN User Part (ISUP) vers. 3 for the international interface, Part 16: Call Hold (HOLD) supplementary service
ETSI EN 300 356-17, V3.2.8, 1998-08	ISDN User Part (ISUP) vers. 3 for the international interface, Part 17: Call Waiting (CW) supplementary service
ETSI EN 300 356-18, V3.2.8, 1998-08	ISDN User Part (ISUP) vers. 3 for the international interface, Part 18: Completion of Calls to Busy Subscriber (CCBS) supplementary service
ETSI EN 300 356-19, V3.2.8, 1998-08	ISDN User Part (ISUP) vers. 3 for the international interface, Part 19: Three-Party (3PTY) supplementary service
ETSI EN 300 356-20, V3.2.8, 1998-09	ISDN User Part (ISUP) vers. 3 for the international interface; Part 20: Completion of Calls on No Reply (CCNR) supplementary service
ETSI EN 301 062-1, v1.1.2, 1998-07	Support of VPN
ETSI EN 301 069-1, v1.1.3, 1998-08	APM – Application transport mechanism; Part 1: Protocol specification
Report ITS 9, edition 2	Transfer of number information in national interconnection
SS 63 63 90 (1999)	Number portability in Sweden – Network solutions for Service Provider Portability for fixed public network telecommunications services
SS 63 63 92 (2000)	Mobile Number Portability in Sweden – Network solutions for Service Provider Portability for public digital mobile telephony services

2.2 Informative References

ITU-T Rec. Q.731.1, 07/96	Stage 3 description for numbering identification supplementary services using Signalling System No. 7: Direct-Dialling-In (DDI)
ITU-T Rec. Q.731.8, 02/92	Stage 3 description for numbering identification supplementary services using Signalling System No. 7: Subaddressing (SUB)
ITU-T Rec. Q.735.6, 10/95	Stage 3 description for community of interest supplementary services using Signalling System No. 7: Global Virtual Network Service (GVNS)
ITU-T Rec. Q.736.1, 10/95	Stage 3 description for charging supplementary services using Signalling System No. 7: International Telecommunication Charge card (ITCC)

ITU-T Rec. Q.736.3, 10/95	Stage 3 description for charging supplementary services using Signalling System No. 7: Reverse charging (REV)
ITU-T Rec. Q.762, 03/99	Signalling System No. 7 – ISDN User Part general functions of messages and signals
ITU-T Rec. Q.769.1, 03/99	ISDN User Part enhancements for the support of number portability
Telia 8211-A325, rev A, 95-02-28	ISDN-PLMN (GSM) signalling interface for Sweden
Telia 1/8211-A325, rev A, 95-02-28	Annex 1
Telia 8211-A330, rev A, 98-02-13	Sending of called party number for calls with network prefixes 95xx to and from Telia's Swedish fixed network
Telia 8211-A335, rev C, 98-06-13	ISDN-ISDN signalling interface for Sweden
Telia 1/8211-A335, rev A, 95-03-03	Annex 1
ETSI EN 300 356-10, V3.1.3, 1998-08	ISDN User Part (ISUP) vers. 3 for the international interface, Part 10: Subaddressing (SUB) supplementary service
ETSI EN 302 097, v1.1.2, 1999-01	Enhancements for support of Number Portability
ETSI TR 102 081, v1.1.1, 1998-11	Signalling requirement for number portability
ETSI ES 201 296, v1.1.2, 1998-07	Signalling aspects of charging
Report from "IT-företag", v1.1	Accounting principles
PN/CSI-98:265, rev A, 98-09-30	Krav och beskrivning av valt alternativ för prioritetsnät i Sverige
Version 1, April 1998	The European Telecommunications Platform (ETP), framework interconnection agreement: Guidelines for operation & maintenance
Report ITS12	PSTN-ISDN-PLMN ISUP Signalling interface for Sweden – Technical Prestudy

3 Terms and definitions

ETSI alignment
information added to the ITU-T recommendation to align the procedure/protocol with ETSI standards

Swedish national requirement
information added to the ITU-T recommendation to align the procedure/protocol with Swedish national requirements (e.g. number portability)

4 Abbreviations

3PTY	Three-Party Service
ACM	Address complete Message
ANM	Answer Message
CCBS	Completion of Calls to Busy Subscriber
CCNR	Completion of Calls on No Reply
CD	Call Deflection
CFB	Call Forwarding Busy
CFNR	Call Forwarding No Reply
CFU	Call Forwarding Unconditional
CIC	Circuit Identification Code
CLIP	Calling Line Identification Presentation
CLIR	Calling Line Identification Restriction
COLP	Connected Line Identification Presentation
COLR	Connected Line Identification Restriction
CON	Connect
CONF	Conference Calling
CPG	Call Progress
CQR	Circuit group Query Response
CUG	Closed User Group
CW	Call Waiting
DDI	Direct-Dialling-In
ECT	Explicit Call Transfer
EN	ETSI Norm
ES	ETSI Standard
ETSI	European Telecommunications Standards Institute
FAA	Facility Accepted
FAC	Facility
FAR	Facility Request
FOT	Forward Transfer
GSM	Global Systems for Mobile communication
GVNS	Global Virtual Network Services
HOLD	Call Hold
HTR	Hard-To-Reach
IAM	Initial Address Message
IDR	Identification Response
INF	Information
INR	Information Request
ISC	International Switching Centre
ISDN	Integrated Services Digital Network
ISUP	ISDN User Part
ITCC	International Telecommunication Charge Card
ITS	Information Technology Standardization
ITU	International Telecommunication Union
ITU-T	Telecomminication standardization sector of ITU
MCID	Malicious Call Identification
MLPP	Multi-Level Precedence and Preemption

NP	Number Portability
NRM	Network resource management message
PAM	Pass-along Message
PLMN	Public Land Mobile Network
PSTN	Public Switched Telephone Network
REL	Release
RES	Resume
REV	Reverse charging
ROSE	Remote Operation Service
SAM	Subsequent Address Message
SCCP	Signalling Connection Control Part
SDN	Subsequent Directory Number
SGM	Segmentation Message
SS	Swedish Standard
SUB	Sub-addressing
SUS	Suspend
TP	Terminal Portability
TR	Technical Report
UPA	User Part Available
UPT	User Part Test
UUS	User-to-User Signalling
VPN	Virtual Private Network

5 Exceptions and clarifications to ITU-T Rec.Q.730

Recommendation	**Applicable**	**Comments**
Q.730	YES	**1.2.1 Sending unsolicited information** Not applicable **1.3.3 Remote Operations Service (ROSE) capability** Not applicable **1.3.6 Pivot routing** Not applicable **1.3.7 Redirection** Not applicable **1.4 End-to-end signalling** Not applicable **Appendix I – Contents of the interface elements between the ISDN user part and the SCCP** Not applicable

Table 1

6 Exceptions and clarifications to ITU-T Rec.Q.731

Recommendation	Applicable	Comments
Q.731.1 DDI	YES	
Q.731.3 CLIP	YES	**3.4 Coding requirements** In nature of address the values: 0000001 (subscriber number) and 0000010 (unknown) are not applicable Value 10 (user provided, verified and failed) in screening indicator is not applicable **TABLE 3-1/Q.731** Calling party number, codepoints Note b is not applicable
Q.731.4 CLIR	YES	
Q.731.5 COLP	YES	**5.4 Coding requirements** In nature of address the values: 0000001 (subscriber number) and 0000010 (unknown) are not applicable
Q.731.6 COLR	YES	
Q.731.7 MCID	YES	
Q.731.8 SUB	YES	

Table 2

7 Exceptions and clarifications to ITU-T Rec.Q.732

Recommendation	Applicable	Comments
Q.732.2 CFB	YES	
Q.732.3 CFNR	YES	
Q.732.4 CFU	YES	
Q.732.5 CD	YES	
Q.732.7 ECT	YES	

Table 3

8 Exceptions and clarifications to ITU-T Rec.Q.733

Recommendation	Applicable	Comments
Q.733.1 CW	YES	
Q.733.2 HOLD	YES	
Q.733.3 CCBS	YES	
Q.733.4 TP	YES	
Q.733.5 CCNR	YES	

Table 4

9 Exceptions and clarifications to ITU-T Rec.Q.734

Recommendation	Applicable	Comments
Q.734.1 CONF	YES	
Q.734.2 3PTY	YES	

Table 5

10 Exceptions and clarifications to ITU-T Rec.Q.735

Recommendation	Applicable	Comments
Q.735.1 CUG	YES	**1.2.1 General description** Centralized database is not applicable **1.5.2.1.1 Normal operation** Centralized database is not applicable **1.5.2.5.1 Normal operation** Centralized database is not applicable **1.8 Signalling flows** Centralized database is not applicable **Appendix I** Not applicable
Q.735.3 MLPP	NO	
Q.735.6 GVNS	NO	

Table 6

11 Exceptions and clarifications to ITU-T Rec.Q.736

Recommendation	Applicable	Comments
Q.736.1 ITCC	NO	
Q.736.3 REV	NO	

Table 7

12 Exceptions and clarifications to ITU-T Rec.Q.737

Recommendation	Applicable	Comments
Q.737.1 UUS	YES	**1.3.2.1 General description** The SCCP method is not applicable

Table 8

13 Exceptions and clarifications to ITU-T Rec.Q.761

Applicable with the following comments:

Paragraph Number	Comments, amendments or deletions
1 General	The SCCP method is not applicable
2 Introduction to ISDN User Part (ISUP) signalling procedures	Applicable
2.3 Signalling methods	End-to-end method is not applicable
3 Capabilities supported by the ISDN User Part	**Table 1/Q.761 (function/service)** The following functions/services are not applicable: N × 64 kbit/s connection types; Transit network selection; Forward transfer; Signalling procedures for connection type allowing fallback capability; Propagation delay determination procedure; Enhanced echo control signalling procedures; Circuit group query; Temporary trunk blocking; Unequipped circuit identification code; ISDN User Part availability control; Temporary Alternative Routing (TAR); Hard-to-Reach. **Table 2/Q.761 (function/service)** The following generic signalling procedures are not applicable: End-to-end signalling – Pass along method; End-to-end signalling – SCCP Connection Oriented; End-to-end signalling – SCCP Connectionless; Generic digit transfer; Remote Operations Service (ROSE) capability; Redirection; Pivot Routing. The following supplementary services are not applicable: Multi-Level Precedence and Preemption (MLPP); Global Virtual Network Service (GVNS); International telecommunication charge card (ITCC); Reverse charging (REV).
4 Services assumed from the Message Transfer Part (MTP)	Applicable
5 End-to-end signalling	Not applicable
6 Future enhancements and Compatibility procedure	Applicable
Appendix I	Applicable

Table 9

14 Exceptions and clarifications to ITU-T Rec.Q.762

Recommendation Q.762 contains explanations of the general function of messages, parameters and parameter information. The explanations of Q.762 and ETSI modifications are applied as such in Sweden. National modifications of recommendation Q.763 contained in clause 15 of this standard define the messages, parameters and parameter information used in Sweden.

15 Exceptions and clarifications to ITU-T Rec.Q.763

Applicable with the following comments:

Paragraph Number	**Comments, amendments or deletions**
1 General	Applicable, with the comments, amendments and deletions mentioned for each section below
1.0.5 General coding principles	The following sentence is inserted after the first paragraph (ETSI alignment) "It is not necessary to check the parameter values of the parameters that are not under the control of ISUP (e.g. User service information, User teleservice information)."
1.2 Circuit identification code	Paragraphs b, c and e are not applicable Table 2/Q.763 and table 3/Q.763 (part 2) are not applicable
	TABLE 4/Q.763 The following message types are not applicable: Circuit group query Circuit group query response Charge information Forward transfer Information Information request Loop back acknowledgement Network resource management Overload Pass-along Subsequent Directory Number Unequipped CIC User part available User part test
2 Parameter codes	Applicable
3 ISDN User Part parameters	Applicable, with the comments, amendments and deletions mentioned for each section below

Paragraph Number	Comments, amendments or deletions
3.1 Parameter names	**TABLE 5/Q.763** The following parameters are not applicable: Backward GVNS Call history information Call reference Called directory number Charged party identification Circuit assignment map Circuit state indicator Connection request Echo control information Forward GVNS Generic digits HTR information Information request Information response MLPP precedence Network management controls Network routeing number Originating ISC point code Pivot capability Pivot counter Pivot routeing backward information Pivot routeing forward information Pivot routeing indicators Pivot status Propagation delay counter Query on release capability Redirect backward information Redirect capability Redirect counter Redirect forward information Redirect status Remote operations Signalling point code Transit network selection Transmission medium requirement prime Transmission medium requirement used User service information prime

Paragraph Number	Comments, amendments or deletions
3.5 Backward call indicator	Called party's status indicator 10 not applicable End-to-end method indicator 01 not applicable 10 not applicable 11 not applicable End-to-end information indicator 1 not applicable Holding indicator 1 not applicable Echo control device indicator For the echo control device indicator see Q.764 section 2.7.3 SCCP method indicator 01 not applicable 10 not applicable 11 not applicable
3.7 Call history	Not applicable
3.8 Call reference	Not applicable
3.9 Called party number	Nature of address indicator 0000001 not applicable 0000101 not applicable 0000110 not applicable 0000111 not applicable 0001000 network routeing number concatenated with Called Directory Number (Swedish national requirement) Numbering plan indicator 011 not applicable 100 not applicable
3.10 Calling party number	Nature of address indicator 0000001 not applicable 0000010 not applicable Numbering plan indicator 011 not applicable 100 not applicable
3.14 Circuit state indicator	Not applicable
3.16 Connected number	Nature of address indicator 0000001 not applicable 0000010 not applicable Numbering plan indicator 011 not applicable 100 not applicable
3.17 Connection request	Not applicable
3.19 Echo control information	Not applicable

Paragraph Number	Comments, amendments or deletions
3.21 Event information	Event indicators 0000100 not applicable 0000101 not applicable 0000110 not applicable Event presentation restricted indicator 1 not applicable
3.23 Forward call indicators	End-to-end method indicator 01 not applicable 10 not applicable 11 not applicable End-to-end information indicator 1 not applicable SCCP method indicator 01 not applicable 10 not applicable 11 not applicable
3.24 Generic digits	Not applicable
3.26 Generic number	Number qualifier indicator 00000001 not applicable Nature of address indicator 0000001 not applicable 0000010 not applicable Numbering plan indicator 011 not applicable 100 not applicable 101 not applicable Address presentation restricted indicator 10 not applicable
3.28 Information indicators	Not applicable
3.29 Information request indicators	Not applicable
3.30 Location number	Nature of address indicator 0000001 not applicable 0000010 not applicable Numbering plan indicator 011 not applicable 100 not applicable Address presentation restricted indicator 10 not applicable
3.31 MCID request indicators	Holding indicator 1 not applicable
3.32 MCID response indicators	Holding indicator 1 not applicable
3.34 MLPP precedence	Not applicable

Paragraph Number	Comments, amendments or deletions
3.35 Nature of connection indicators	Continuity check indicator 01 not applicable Echo control device indicator For the echo control device indicator see Q.764 section 2.7.3
3.37 Optional backward call indicators	MLPP user indicator 1 not applicable
3.39 Original called number	Nature of address indicator 0000001 not applicable 0000010 not applicable Numbering plan indicator 011 not applicable 100 not applicable Address presentation restricted indicator 10 not applicable
3.40 Originating ISC point code	Not applicable
3.42 Propagation delay counter	Not applicable
3.44 Redirecting number	Nature of address indicator 0000001 not applicable 0000010 not applicable Numbering plan indicator 011 not applicable 100 not applicable Address presentation restricted indicator 10 not applicable
3.45 Redirection information	Redirecting indicator 000 not applicable 001 not applicable 010 not applicable 101 not applicable 110 not applicable Original redirection reason 0001 not applicable 0010 not applicable 0011 not applicable The note under the figure is not applicable, two octets are always used
3.46 Redirection number	Nature of address indicator 0000001 not applicable 0000010 not applicable 0000110 not applicable 0000111 not applicable Numbering plan indicator 011 not applicable 100 not applicable
3.48 Remote operations	Not applicable
3.50 Signalling point code	Not applicable

Paragraph Number	Comments, amendments or deletions
3.53 Transit network selection	Not applicable
3.54 Transmission medium requirement	0000 0110 not applicable 0001 0000 to 0010 1010 not applicable
3.55 Transmission medium requirement prime	Not applicable
3.56 Transmission medium requirement used	Not applicable
3.58 User service information prime	Not applicable
3.62 Backward GVNS	Not applicable
3.64 Call transfer number	Nature of address indicator 0000001 not applicable 0000010 not applicable Numbering plan indicator 011 not applicable 100 not applicable
3.66 Forward GVNS	Not applicable
3.68 Network management controls	Not applicable
3.69 Circuit assignment map	Not applicable
3.73 Called IN number	Nature of address indicator 0000001 not applicable 0000010 not applicable Numbering plan indicator 011 not applicable 100 not applicable Address presentation restricted indicator 10 not applicable
3.75 Charged party identification	Not applicable
3.84 Pivot capability	Not applicable
3.85 Pivot routeing indicators	Not applicable
3.86 Called directory number	Not applicable
3.87 Original called IN number	Nature of address indicator 0000001 not applicable 0000010 not applicable Numbering plan indicator 011 not applicable 100 not applicable Address presentation restricted indicator 10 not applicable
3.89 HTR information	Not applicable
3.90 Network routeing number	Not applicable

Paragraph Number	Comments, amendments or deletions
3.91 Query on release capability	Not applicable
3.92 Pivot status	Not applicable
3.93 Pivot counter	Not applicable
3.94 Pivot routeing forward information	Not applicable
3.95 Pivot routeing backward information	Not applicable
3.96 Redirect capability	Not applicable
3.97 Redirect counter	Not applicable
3.98 Redirect status	Not applicable
3.99 Redirect forward information	Not applicable
3.100 Redirect backward information	Not applicable
4 ISDN User Part messages	Applicable, with the comments, amendments and deletions mentioned for each section below
	TABLE 21/Q.763, ACM The following parameters within this message are not applicable: Call reference Transmission medium used Echo control information Remote operations HTR information Pivot routeing backward information Redirect status
	TABLE 22/Q.763, ANM The following parameters within this message are not applicable: Call reference Backward GVNS Call history information Transmission medium used Remote operations Echo control information Pivot routeing backward information Redirect status
	TABLE 23/Q.763, CPG The following parameters within this message are not applicable: Call reference Remote operations Transmission medium used Echo control information Backward GVNS Call history information Pivot routeing backward information Redirect status

Paragraph Number	Comments, amendments or deletions
	TABLE 24/Q.763, CQR Not applicable
	TABLE 27/Q.763, CON The following parameters within this message are not applicable: Backward GVNS Call reference Remote operations Transmission medium used Echo control information Call history information Pivot routeing backward information Redirect status
	TABLE 30/Q.763, INF Not applicable
	TABLE 31/Q.763, INR Not applicable
	TABLE 32/Q.763, IAM The following parameters within this message are not applicable: Transit network selection Call reference Connection request Propagation delay information User service information prime Generic digits Origination ISC point code Remote operations Generic reference MLPP precedence Transmission medium requirement prime Forward GVNS Network management controls Circuit assignment map Echo control information Pivot capability Called directory number Network routing number QoR capability Pivot counter Pivot routeing forward information Redirect capability Redirect counter Redirect status Redirect forward information The length of the redirection information is 4 octets

Paragraph Number	Comments, amendments or deletions
	TABLE 33/Q.763, REL The following parameters within this message are not applicable: Redirection information Redirection number Signalling point code Remote operations HTR information Redirect counter Redirect backward information
	TABLE 37/Q.763, FOT Not applicable
	TABLE 38/Q.763, RES, SUS The following parameter within these messages is not applicable: Call reference
	TABLE 39/Q.763 The following messages are not applicable: Loop back acknowledgement Overload Unequipped circuit identification code
	TABLE 41/Q.763 The following message is not applicable: Circuit group query
	TABLE 42/Q.763, FAA, FAR The following parameters within these messages are not applicable: Call reference Connection request
	TABLE 43/Q.763, PAM Not applicable
	TABLE 44/Q.763, UPT, UPA Not applicable
	TABLE 45/Q.763, FAC The following parameters within this message are not applicable: Remote operations Redirection number Pivot routeing indicators Pivot status Pivot counter Pivot routing backward information Redirect status
	TABLE 46/Q.763, NRM Not applicable
	TABLE 48/Q.763, IDR The following parameter within this message is not applicable: Charged party identification

Paragraph Number	Comments, amendments or deletions
	TABLE 53/Q.763, SDN Not applicable
Annex A	Applicable
Annex B	Applicable

Table 10

16 Exceptions and clarifications to ITU-T Rec.Q.764

Applicable with the following comments:

Paragraph Number	Comments, amendments or deletions
2 Basic call control and signalling procedure	Applicable, with the comments, amendments and deletions mentioned for each section below
2.1 Successful call set-up	The following sentence is added to the beginning of the subclause (ETSI alignment) "The number of digits supported for a call shall be independent of whether en bloc or overlap operation is used"
2.1.1.1 (item a) Actions required at the originating exchange	The subclause is modified as follows (ETSI alignment): The term "multirate connection types" are added after: – 2 × 64 kbit/s unrestricted – 384 kbit/s unrestricted – 1 536 kbit/s unrestricted – 1 920 kbit/s unrestricted – Nx64 kbit/s unrestricted is not applicable The note is not applicable
2.1.2.1 (item a) Actions required at the originating exchange	The subclause is modified as follows (ETSI alignment): The term "multirate connection types" are added after: – 2 × 64 kbit/s unrestricted – 384 kbit/s unrestricted – 1 536 kbit/s unrestricted – 1 920 kbit/s unrestricted – Nx64 kbit/s unrestricted is not applicable The note is not applicable
2.1.8 Continuity check	01 Continuity check required is not applied. However, the value 10 continuity check performed on previous circuit must be understood and reacted on in an appropriate way. This also includes the reception of the continuity message.
2.1.9 Charging	Not applicable
2.1.10 Forward transfer message	Not applicable

Paragraph Number	Comments, amendments or deletions
2.1.11 Transit network selection	Not applicable
2.1.13 Procedure for N*64 kbit/s Connection Types	Not applicable
2.5 Signalling procedures for connection type allowing fallback	Not applicable
2.6 Propagation delay determination procedure	Not applicable
2.7.2 Enhanced echo control signalling procedures	Not applicable
2.7.3 Simple echo control signalling procedures	For national calls, no echo canceller is included in the absence of mutual agreements between operators. For international calls, the international gateway is responsible for including echo cancellers.
2.8.2 Blocking and unblocking of circuits and circuit groups	N*64 is not applicable
2.8.3 Circuit group query	Not applicable
2.9.1.2 Detection of dual seizure	N*64 is not applicable
2.9.1.4 (item a) Action to be taken on detection of dual seizures	N*64 is not applicable
2.9.1.4 (item d)Action to be taken on detection of dual seizures	Not applicable
2.9.3.1 (item h) Reset circuit message	N*64 is not applicable
2.9.3.2 (item g) Circuit group reset message	N*64 is not applicable
2.9.5.1 (item e) Handling of unexpected messages	N*64 is not applicable
2.9.5.1 (item f) Handling of unexpected messages	N*64 is not applicable
2.9.5.2 (item i) General requirements on receipt of unrecognized signalling information messages and parameters	No end-to-end method is applicable
2.9.9 Temporary Trunk Blocking (TTB)	Not applicable
2.12 Unequipped circuit identification code message	Not applicable
2.13 ISDN User Part availability control	Not applicable

Paragraph Number	Comments, amendments or deletions
2.16 Support for Temporary Alternative Routeing (TAR)	Not applicable
2.19 Support for Hard To Reach Network management functions	Not applicable
Annex A	The following timers are not applicable: T3, T24, T25, T26, T28, T31, T32, T33, T37 and T38
Annex B	Applicable
Annex C	Not applicable
Annex D	Not applicable

Table 11

17 Exceptions and clarifications to ITU-T Rec.Q.765

Applicable

18 Exceptions and clarifications to ITU-T Rec.Q.850

Applicable with the following comments:

Paragraph Number	Comments, amendments or deletions
2 Cause	Applicable, with the comments, amendments and deletions mentioned for each section below
2.1 Format	Octet 3a (recommendation) is not applicable
2.2.2 Coding standard	01 not applicable 11 not applicable
2.2.4 Recommendation	Not applicable
2.2.5 Cause values	The following cause values are not applicable: 2, 6, 7, 8, 9, 14, 26, 30, 39, 40, 42, 46, 49, 66, 81, 82, 83, 84, 85, 86, 96, 98, 100, 101 The following cause value is used with the national coding standard: 112 Ported number not found
2.2.6.2 Coding of Transit network identity	Not applicable
2.2.7 Cause definitions	Definitions of cause values not used on the Swedish ISUP interface are not applicable Cause 112 (national cause) is used to indicate that the call is cleared because the ported number is not allocated to the network indicated by the Called party Number parameter (Swedish national requirement)

Table 12