

PNO-ISC Specification Number 007 ISDN User Part (ISUP)

ICS 35.110

National foreword

This Published Document has been prepared by Technical Committee TCT/50 Public Network Operators Interconnect Standards Committee. It supersedes PD 6623:2000 which is withdrawn. It specifies the ISUP protocol required on interconnections between public telecommunications networks in the UK.

This Published Document has been produced with place markers for some sections, not yet available, which will be issued as amendments to this Published Document when they become available.

This Published Document contains ISC references to other documents, which are planned to be published as Published Documents. The following list cross-references these against PD publications:

PD 6651	PNO-ISC/SPEC/008
PD 6654	PNO-ISC/SER/004
PD 6625	PNO-ISC/SER/001
PD 6638	PNO-ISC/SPEC/003
PD 6627	PNO-ISC/INFO/007
PD 6652	PNO-ISC/SER/009
PD 6626	PNO-ISC/SER/003
PD 6650	PNO-ISC/SPEC/005
PD 6656	PNO-ISC/SER/006
PD 6664	PNO-ISC/SER/008
PD 6673	PNO-ISC/INFO/015
PD 6674	PNO-ISC/INFO/016

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Summary of pages

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This Published Document, having been prepared under the direction of the DISC Board, was published under the authority of the Standards Policy and Strategy Committee on 18 February 2002

© BSI 6 March 2002

ISBN 0 580 38827 1

Amendments issued since publication

Amd. No.	Date	Comments
13735 Corrigendum No. 1	6 March 2002	Correction to year on identifier

PNO-ISC SPECIFICATION NUMBER 007

ISDN USER PART (ISUP)

NETWORK INTEROPERABILITY CONSULTATIVE COMMITTEE

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0.0.2 Normative Information

All enquiries about distribution reproduction, changes and clarifications should be addressed in the first instance to the Chairman of the NICC/PNO-IG/ISC at the address on the title page.

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0.0.4 History

Revision	Date of Issue	Updated By	Description
Issue 2.1	April 1998	PNO-ISC Editors	Approved by PNO-IG
Issue 2.2	March 1999	Simon Sporton, Vodafone	New §§6,14,21,24,26 and 27 included Inclusion of items from Corrigendum 1 to Issue 2.1 Corrected ETSI modifications to ITU-T Align with new CLI CoP Minor editorial changes
Issue 2.3	December 1999	Simon Sporton, Vodafone	New §23 included
Issue 2.4	July 2000	Simon Sporton, Vodafone	Revised §§2,3 and 8
Issue 3.0	July 2001	Simon Sporton, Vodafone	Updated throughout to refer to latest ITU-T recommendations and ETSI ISUP Specifications, and various technical enhancements to the protocol. New §9 for ACR New §12 for CCNR New §20 for Indirect Access New §22 for Carrier Preselection

0.0.5 Issue Control

Section	Issue	Date
0	Issue 3.0	July 2001
1	Issue 3.0	July 2001
2	Issue 3.0	July 2001
3	Issue 3.0	July 2001
4	Issue 3.0	July 2001
5	Issue 3.0	July 2001
6	Issue 3.0	July 2001
7	Issue 3.0	July 2001
8	Issue 3.0	July 2001
9	Issue 3.0	July 2001
10	Issue 3.0	July 2001
11	Issue 3.0	July 2001
12	Issue 3.0	July 2001
13	Issue 0	

Section	Issue	Date
14	Issue 3.0	July 2001
15	Issue 3.0	July 2001
16	Issue 3.0	July 2001
17	Issue 3.0	July 2001
18	Issue 3.0	July 2001
19	Issue 3.0	July 2001
20	Issue 3.0	July 2001
21	Issue 3.0	July 2001
22	Issue 3.0	July 2001
23	Issue 3.0	July 2001
24	Issue 0	
25	Issue 0	
26	Issue 3.0	July 2001
27	Issue 3.0	July 2001

NOTE: Sections that are revised in this issue are shown in this table as **bold**.

0.0.6 References

NOTE: reference is made to pre-published ITU-T recommendations. Although these are fully approved and publicly available there may be editorial differences between them and the published versions

- [1] ETSI EN 300 356-1 v4.2.1 (2001-05) - Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 4 for the international interface; Part 1: Basic Services
- [2] ETSI EN 300 356-2 v4.1.2 (2001-05) - Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 4 for the international interface; Part 2: ISDN supplementary services

- [3] ETSI EN 300 356-3 v4.2.1 (2001-05) - Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 4 for the international interface; Part 3: Calling Line Identification Presentation (CLIP) supplementary service
- [4] ETSI EN 300 356-4 v4.2.1 (2001-05) - Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 4 for the international interface; Part 4: Calling Line Identification Restriction (CLIR) supplementary service
- [5] ETSI EN 300 356-5 v4.1.2 (2001-05) - Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 4 for the international interface; Part 5: Connected Line Identification Presentation (COLP) supplementary service
- [6] ETSI EN 300 356-6 v4.1.2 (2001-05) - Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 4 for the international interface; Part 6: Connected Line Identification Restriction (COLR) supplementary service
- [7] ETSI EN 300 356-7 v4.1.2 (2001-05) - Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 4 for the international interface; Part 7: Terminal Portability (TP) supplementary service
- [8] ETSI EN 300 356-8 v4.1.2 (2001-05) - Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 4 for the international interface; Part 8: User-to-User Signalling (UUS) supplementary service
- [9] ETSI EN 300 356-9 v4.1.2 (2001-05) - Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 4 for the international interface; Part 9: Closed User Group (CUG) supplementary service
- [10] ETSI EN 300 356-10 v4.1.2 (2001-05) - Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 4 for the international interface; Part 10: Subaddressing (SUB) supplementary service
- [11] ETSI EN 300 356-11 v4.1.2 (2001-05) - Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 4 for the international interface; Part 11: Malicious Call Identification (MCID) supplementary service
- [12] ETSI EN 300 356-12 v4.2.1 (2001-05) - Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 4 for the international interface; Part 12: Conference call, add-on (CONF) supplementary service
- [13] Not Used
- [14] ETSI EN 300 356-14 v4.2.1 (2001-05) - Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 4 for the international interface; Part 14: Explicit Call Transfer (ECT) supplementary service
- [15] ETSI EN 300 356-15 v4.2.1 (2001-05) - Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 4 for the international interface; Part 15: Diversion supplementary services
- [16] ETSI EN 300 356-16 v4.2.1 (2001-05) - Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 4 for the international interface; Part 16: Call Hold (HOLD) supplementary service
- [17] ETSI EN 300 356-17 v4.1.2 (2001-05) - Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 4 for the international interface; Part 17: Call Waiting (CW) supplementary service
- [18] ETSI EN 300 356-18 v4.1.2 (2001-05) - Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 4 for the international interface; Part 18: Completion of Calls to Busy Subscriber (CCBS) supplementary service
- [19] ETSI EN 300 356-19 v4.2.1 (2001-05) - Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 4 for the international interface; Part 19: Three party (3PTY) supplementary service
- [20] ETSI ETS 300 199 (1994-12) - Integrated Services Digital Network (ISDN); Call Forwarding Busy (CFB) supplementary service; Service description
- [21] ETSI ETS 300 200 (1994-12) - Integrated Services Digital Network (ISDN); Call Forwarding Unconditional (CFU) supplementary service; Service description
- [22] ETSI ETS 300 201 (1994-12) - Integrated Services Digital Network (ISDN); Call Forwarding No Reply (CFNR) supplementary service; Service description

- [23] ETSI ETS 300 202 (1994-12) - Integrated Services Digital Network (ISDN); Call Deflection (CD) supplementary service; Service description
- [24] ETSI ETS 300 203 (1994-12) - Integrated Services Digital Network (ISDN); Call Forwarding Busy (CFB) supplementary service; Functional capabilities and information flows
- [25] ETSI ETS 300 204 (1994-12) - Integrated Services Digital Network (ISDN); Call Forwarding Unconditional (CFU) supplementary service; Functional capabilities and information flows
- [26] ETSI ETS 300 205 (1994-12) - Integrated Services Digital Network (ISDN); Call Forwarding No Reply (CFNR) supplementary service; Functional capabilities and information flows
- [27] ETSI ETS 300 206 (1994-12) - Integrated Services Digital Network (ISDN); Call Deflection (CD) supplementary service; Functional capabilities and information flows
- [28] ETSI ETS 300 050 (1991-10) - Integrated Services Digital Network (ISDN); Multiple Subscriber Number (MSN) supplementary service; Service Description
- [29] ETSI ETS 300 051 (1991-10) - Integrated Services Digital Network (ISDN); Multiple Subscriber Number (MSN) supplementary service; Functional capabilities and information flows
- [30] ETSI ETS 300 053 (1991-10) - Integrated Services Digital Network (ISDN); Terminal Portability (TP) supplementary service; Service Description
- [31] ETSI ETS 300 054 (1991-10) - Integrated Services Digital Network (ISDN); Terminal Portability (TP) supplementary service; Functional capabilities and information flows
- [32] ETSI ETS 300 056 (1991-10) - Integrated Services Digital Network (ISDN); Call Waiting (CW) supplementary service; Service Description
- [33] ETSI ETS 300 057 (1992-05) - Integrated Services Digital Network (ISDN); Call Waiting (CW) supplementary service; Functional capabilities and information flows
- [34] ETSI ETS 300 059 (1991-10) - Integrated Services Digital Network (ISDN); Subaddressing (SUB) supplementary service; Service Description
- [35] ETSI ETS 300 060 (1991-10) - Integrated Services Digital Network (ISDN); Subaddressing (SUB) supplementary service; Functional capabilities and information flows
- [36] ETSI ETS 300 062 (1991-10) - Integrated Services Digital Network (ISDN); Direct Dialling In (DDI) supplementary service; Service Description
- [37] ETSI ETS 300 063 (1991-10) - Integrated Services Digital Network (ISDN); Direct Dialling In (DDI) supplementary service; Functional capabilities and information flows
- [38] ETSI ETS 300 089 (1992-01) - Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Service description
- [39] ETSI ETS 300 090 (1992-01) - Integrated Services Digital Network (ISDN); Calling Line Identification Restriction (CLIR) supplementary service; Service description
- [40] ETSI ETS 300 091 (1992-03) - Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) and Calling Line Identification Restriction (CLIR) supplementary services; Functional capabilities and information flows
- [41] ETSI ETS 300 094 (1992-01) - Integrated Services Digital Network (ISDN); Connected Line Identification Presentation (COLP) supplementary service; Service description
- [42] ETSI ETS 300 095 (1992-01) - Integrated Services Digital Network (ISDN); Connected Line Identification Restriction (COLR) supplementary service; Service description
- [43] ETSI ETS 300 096 (1992-05) - Integrated Services Digital Network (ISDN); Connected Line Identification Presentation (COLP) and Connected Line Identification Restriction (COLR) supplementary services; Functional capabilities and information flows
- [44] ETSI ETS 300 128 (1992-03) - Integrated Services Digital Network (ISDN); Malicious Call Identification (MCID) supplementary service; Service Description
- [45] ETSI ETS 300 129 (1992-05) - Integrated Services Digital Network (ISDN); Malicious Call Identification (MCID) supplementary service; Functional capabilities and information flows
- [46] ETSI ETS 300 139 (1992-03) - Integrated Services Digital Network (ISDN); Call Hold (HOLD) supplementary service; Service Description
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- [48] ETSI ETS 300 186 (1993-07) - Integrated Services Digital Network (ISDN); Three-party (3PTY) supplementary service; Service Description
- [49] ETSI ETS 300 187 (1993-08) - Integrated Services Digital Network (ISDN); Three-party (3PTY) supplementary service; Functional capabilities and information flows
- [50] ETSI ETS 300 284 (1996-03) - Integrated Services Digital Network (ISDN); User-to-user signalling (UUS) supplementary service; Service Description
- [51] ETSI ETR 285 (1996-03) - Integrated Services Digital Network (ISDN); User-to-user signalling (UUS) supplementary service Functional capabilities and information flows
- [52] ETSI ETS 300 357 (1995-10) - Integrated Services Digital Network (ISDN); Completion of Call to Busy Subscriber (CCBS) supplementary service; Service Description
- [53] ETSI ETS 300 358 (1995-09) - Integrated Services Digital Network (ISDN); Completion of Call to Busy Subscriber (CCBS) supplementary service; Functional capabilities and information flows
- [54] ETSI ETS 300 367 (1995-03) - Integrated Services Digital Network (ISDN); Explicit Call Transfer (ECT) supplementary service; Service Description
- [55] ETSI ETS 300 368 (1995-05) - Integrated Services Digital Network (ISDN); Explicit Call Transfer (ECT) supplementary service; Functional capabilities and information flows
- [56] ETSI ETS 300 183 (1992-10) - Integrated Services Digital Network (ISDN); Conference, add-on (CONF) supplementary service; Service Description
- [57] ETSI ETS 300 184 (1993-04) - Integrated Services Digital Network (ISDN); Conference, add-on (CONF) supplementary service; Functional capabilities and information flows
- [58] ETSI ETS 300 136 (1992-03) - Integrated Services Digital Network (ISDN); Closed User Group (CUG) supplementary service; Service Description
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- [61] ITU-T Recommendation Q.730 (12/99) Specifications of Signalling System No. 7 – ISUP supplementary services
- [62] ITU-T Recommendation Q.731.7 (07/96) Specifications of Signalling System No. 7 – ISUP supplementary services – Stage 3 description for Malicious call identification (MCID)
- [63] PNO-ISC/SPEC/008 C7 IUP – UK ISUP interworking requirements.
- [64] PNO-ISC/SER/004 Call forwarding not reachable UK service description
- [65] ITU-T Recommendation Q.732.2-5 (12/99) Specifications of Signalling System No. 7 – ISUP supplementary services – Stage 3 description for call offering supplementary services using Signalling System No. 7
- [66] ITU-T Recommendation Q.118 (09/97) Abnormal conditions - Special release arrangements
- [67] License granted by the Secretary of State for Trade and Industry to British Telecommunications under Section 7 of the Telecommunications Act 1984
- [68] ITU-T Recommendation Q.731 Clauses 3,4,5 and 6 (03/93) Specifications of Signalling System No. 7 – ISUP supplementary services – Stage 3 description for number identification supplementary services using Signalling System No.7: Calling Line Identification Presentation (CLIP), Calling Line Identification Restriction (CLIR), Connected Line Identification Presentation (COLP), Connected Line Identification Restriction (COLR)
- [69] Code of Practice for Network Operators in Relation to Customer Line Identification Display Services and Other Related Services (2nd edition) (06/98) <http://www.oftel.gov.uk>
- [70] BSI PD 6624:2000 (PNO-ISC/SER/002 Issue 1), Calling Line Identification Presentation (CLIP), Calling Line Identification Restriction (CLIR) (Incorporating Calling Number Display) Supplementary Services
- [71] BSI PD 6625:2000 (PNO-ISC/SER/001 Issue 1), UK CCBS Service Description
- [72] BSI PD 6638:2000 (PNO-ISC/SPEC/003 Issue 2), UK SCCP
- [73] BSI PD 6627:2001 (PNO-ISC/INFO/007 Issue 3), UK Interconnect use of SCCP
- [74] BSI PD 6652:1999 (PNO-ISC/SER/009 Issue 1), Operator Services Service Description
- [75] BSI PD 6626:2000 (PNO-ISC/SER/003 Issue 1), Geographic Number Portability Service Description (Interim Solution)

- [76] ITU-T Recommendation Q.733.5 (12/99) Stage 3 description for call completion supplementary services using signalling system No. 7: Completion of Calls on No Reply
- [77] BSI PD 6660:2000 (PNO-ISC/INFO/008 Issue 1), Management of Partial Calling Line Identity
- [78] ITU-T Recommendation I.130 (11/88) Method for characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN
- [79] ITU-T Recommendation Q.731.1(07/96) Specifications of Signalling System No. 7 – ISUP supplementary services Stage 3 description for numbering identification supplementary services using SS No. 7:Direct-Dialling-In (DDI)
- [80] ITU-T Recommendation Q.733.3 (06/97) Specifications of Signalling System No. 7 – ISUP supplementary services – Stage 3 description for call completion supplementary services using Signalling System No. 7: Completion of calls to busy subscriber (CCBS)
- [81] ETSI EN 300 356-20 v4.1.1 (2000-09) - Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 4 for the international interface; Part 20: Completion of Calls on No Reply (CCNR) supplementary service
- [82] ETSI ETS 300 201/A1 (1996-09) - Amendment A1 to Integrated Services Digital Network (ISDN); Call Forwarding No Reply (CFNR) supplementary service; Service description
- [83] BSI PD 6650:2001 (PNO-ISC/SPEC/005 Issue 3), Message Transfer Part (MTP)
- [84] BSI PD 6656:2000 (PNO-ISC/SER/006 Issue 2), High Level Service Description for Targeted Transit
- [85] ITU-T Recommendation Q.765.1 (05/98) Specifications of Signalling System No. 7 – ISDN user part – Application Transport Mechanism - Support Of VPN Applications With PSS1 Information Flows
- [86] ITU-T Recommendation Q.765 (Pre Published 06/00) Specifications of Signalling System No. 7 – ISDN user part – Application transport mechanism
- [87] ITU-T Recommendation Q.850 (05/98) Digital Subscriber Signalling System No. 1 – General – Usage of Cause and Location in the Digital Subscriber Signalling System No.1 and the Signalling System No.7 ISDN User Part including addendum 1 (Pre-published 06/00)
- [88] Draft ETSI EN 300 485 v1.3.1 (2000-09) Integrated Services Digital Network (ISDN); Definition and usage of cause and location in Digital Subscriber Signalling System No.1 (DSS1) and Signalling System No.7 ISDN User Part (ISUP) [ITU-T Recommendation Q.850 (05/98) with addendum (not yet published, modified]
- [89] ETSI ETS 300 202/A1 (1996-09) - Amendment A1 to Integrated Services Digital Network (ISDN); Call Deflection (CD) supplementary service; Service description
- [90] ETSI ETS 300 183/A1 (1998-02) - Amendment A1 to Integrated Services Digital Network (ISDN); Conference, add-on (CONF) supplementary service; Service Description
- [91] ETSI ETS 300 056/A1 (1996-09) - Amendment A1 to Integrated Services Digital Network (ISDN); Call Waiting (CW) supplementary service; Service Description
- [92] ETSI ETS 300 128/A1 (1998-02) - Amendment A1 to Integrated Services Digital Network (ISDN); Malicious Call Identification (MCID) supplementary service; Service Description
- [93] ETSI ETS 300 187/C1 (1994-04) - Correction C1 to Integrated Services Digital Network (ISDN); Three-party (3PTY) supplementary service; Functional capabilities and information flows
- [94] ETSI ETS 300 184/C1 (1993-09) - Correction C1 to Integrated Services Digital Network (ISDN); Conference, add-on (CONF) supplementary service; Functional capabilities and information flows
- [95] Not Used
- [96] ETSI EN 301 134 v1.1.1 (1998-10) - Integrated Services Digital Network (ISDN); Completion of Calls on No Reply (CCNR) supplementary service; Service description
- [97] ETSI ETS 300 356-21 v4.1.1 (2000-09) - Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 4 for the international interface; Part 21: Anonymous Call Rejection (ACR) supplementary service
- [98] ETSI EN 301 798 v1.1.1 (2000-10) Service and Protocols for Advanced Networks (SPAN) Anonymous Call Rejection (ACR) Supplementary Service; Service description [100] Not Used[101] BSI PD 6665:2000 (PNO-ISC/SER/007 Issue 1), Non Geographic Number Portability Service Description
- [102] BSI PD 6664:2000 (PNO-ISC/SER/008 Issue 1), Mobile Number Portability Service Description

- [103] OfTel Consultative Document 'Carrier Pre-Selection in the UK' July 1998
(<http://www.oftel.gov.uk/competition/cps798.htm>)
- [104] ITU-T Recommendation Q.732.7 (Pre-published 12/99) Specifications of Signalling System No. 7 – ISUP supplementary services – Stage 3 description for call offering supplementary services using Signalling System No. 7: Explicit Call Transfer
- [105] ETSI EN 301 069-1 v1.3.1 (2001-02) - Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP); Application transport mechanism;
- [106] ETSI EN 301 062-1 v1.2.3 (1999-10), Integrated Services Digital Network (ISDN); Signalling System No.7; Support of Virtual Private Network (VPN) applications with Private network Q reference point Signalling System number 1 (PSS1) information flows; Part 1: Protocol specification [ITU-T Recommendations Q.765.1 and Q.699.1, modified]
- [107] ITU Recommendation Q.761 (12/99) Specifications of Signalling System No. 7 – ISDN user part Signalling system No. 7 – ISDN user part functional description
- [108] ITU-T Recommendation Q.762 (12/99) - Signalling System No. 7 - ISDN user part general functions of messages and signals including addendum 1 (Pre-Published 06/00)
- [109] ITU-T Recommendation Q.763 (Pre-Published 12/99) - Signalling system No. 7 - ISDN user part formats and codes including Amendment 1 (Pre-Published 03/01)
- [110] ITU-T Recommendation Q.764 (Pre-Published 12/99) - Signalling System No. 7 - ISDN user part signalling procedures
- [111] ITU-T Recommendation Q.542 'Digital exchange design objectives - operations and maintenance'
- [112] ITU-T Recommendation Q.543 'Digital exchange performance design objectives'
- [113] BSI PD 6673:2001 (PNO-ISC/INFO/015 Issue 1), Full report on ISUP overload controls
- [114] BSI PD 6674:2001 (PNO-ISC/INFO/016 Issue 1), Summary report on ISUP overload controls

0.0.7 Glossary of terms

0.0.7.1 Abbreviations

3Pty	Three party
AD&C	Advise duration and charge (indicator)
ACC	Automatic Congestion Control
ACL	Automatic Congestion Level
ACI	Application context identifier
ACM	Address complete message
ANM	Answer message
APM	Application transport mechanism
APM	Application transport message
APP	Application transport parameter
ATII	Application transport instruction indicators
C7	Signalling system number 7
CBI	CLI blocking indicator
CCBS	Completion of calls to busy subscriber
CCNR	Completion of calls on no reply
CCSS	Call completion service set-up
CD	Call deflection
CFB	Call forwarding busy
CFNR	Call forwarding no reply
CFNRc	Call forwarding on subscriber not reachable
CFU	Call forwarding unconditional
CgPN	Calling party number (parameter)
CLI	Calling line identity
CLIP	Calling line identity presentation

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CLIR	Calling line identity restriction
CNI	Changed number interception
COL	Connected line identity
COLP	Connected line identity presentation
COLR	Connected line identity restriction
CONF	Conference call, add-on
CPC	Calling party category
CPG	Call progress (message)
CUG	Closed user group
CW	Call waiting
DCS1800	Digital communication system at 1800MHz
DDI	Direct dialing in
DLE	Destination local exchange
DPNSS	Digital private network signalling system
DQ	Directory enquiries
ECT	Explicit call transfer
ETSI	European Telecommunications Standards Institute
EQ	Enquiry
FDM	Frequency division multiplex
GFP	Generic functional protocol
GSM	Global system for mobile communications
GVNS	Global virtual network services
HLR	Home location register
HOLD	Call hold
IAM	Initial address message
ICB	Incoming calls barred
IG	Interest group
INF	Information message
INR	Information request message
ISC	International switching centre
ISC	Interconnect Standards Committee
ISDN	Integrated services digital network
ISI	Interconnect Specific Information
ISUP	ISDN user part
ITU-T	International Telecommunications Union - Telecommunications sector
IUP	Interconnect user part
LDLI	Last diverting line identity
LPR	Last party release
MCID	Malicious call identification
MMI	Man machine interface
MSN	Multiple subscriber number
MWI	Message waiting indication
NAI	Nature of address indicator
NICC	Network Interoperability Consultative Committee
NII	National information indicators
NIRI	National information request indicators
NN	Network number
NNI	Network nodal interface
NP	Network provided
NP	Number portability
OCB	Outgoing calls barred
OCL	Overload Congestion Level
Oftel	Office of Telecommunications

OOR	Operator override
OLE	Originating local exchange
OSS	Operator services system
PBX	Private branch exchange
PCLI	Partial calling line identity
PINX	Private integrated services network exchange
PN	Presentation number
PNO	Public network operator
PNO-IG	Public network operators' interest group
PNO-ISC	Public network operators' – interconnect standards committee
PNP	Presentation number preference (indicator)
POI	Point of interconnect
PRI	Pre-release information (message)
PSS1	Private network Q reference point signalling system number 1
RCI	Routing control indicator
Rev	Reverse charge
SCCP	Signalling connection control part
SLR	Segmentation local reference
SI	Sequence indicator
SVI	Service interception
TAR	Temporary alternative routing
TCAP	Transaction capabilities application part
TMR	Transmission medium requirement
TOS	Temporary out of service
TP	Terminal portability
TPINX	Transit PINX
UK	United Kingdom of Great Britain and Northern Ireland
UPNV	User provided, not verified
UPVP	User provided, verified and passed
UUS	User-to-user signalling
VPN	Virtual private network

0.0.7.2 Definitions

calling line identity (CLI)

The CLI is either:

- a Network Number, or
- a Presentation Number

calling line identity presentation (CLIP) service

A supplementary service that provides the called party with the possibility of receiving identification of the calling party

calling line identity restriction (CLIR) service

A supplementary service which allows the calling user to prevent presentation of his CLI to the called access. The CLIR service may operate in two modes, determined by a subscription option.

NOTE: CLI restriction may also referred to as CLI blocking or CLI withhold.

CLI available

A condition in which the CLI exists and can be passed to the called customer's access on the terminating network.

CLI restricted/withheld

A condition in which the CLI is not for transmission to the called customer's access on the terminating network.

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because the calling customer is directly connected to a network that supports the CLIP service, and has invoked CLIR.

CLI unavailable

A condition in which the CLI either does not exist because interworking has been encountered and consequently the CLI cannot be passed, or is withheld by the network¹ because:

- the originating network does not support the CLIR service, or
- the CLI must not be displayed for reasons other than invocation of CLIR

codespace

A parameter or discrete part of a parameter to which a range of values may be assigned.

codepoint

A value assigned to a parameter or discrete part of a parameter.

COL available

The COL exists and can be passed to the calling customer's access on the originating network.

COL restricted/withheld

The COL is not for transmission to the calling customer's access on the originating network, because the called customer is directly connected to a network that supports the COLP service, and has exercised the COLR option.

COL unavailable

The COL does not exist or the terminating network does not support the COLR service, or interworking has been encountered, and consequently the COL cannot be passed.

connected line identity (COL)

The COL is either :

- a Network Number, or
- a Presentation Number

NOTE: The COL is always qualified as available, unavailable or restricted.

controlling point/network

The point/network that is responsible for the charging function associated with the call, and is thus ultimately responsible for releasing the connection.

donor network

The network from which the number has been ported.

incoming network

The network to which a call is passed from a point of interconnection between two networks.

NOTE: The incoming network may be the terminating network or a transit network.

network number (NN)

The digits that comprise a unique E.164 number that unambiguously identifies either:

- the fixed access ingress to, or egress from, the public network, i.e. the network termination point (NTP) as defined in Annex A2 (I) of BT's licence for fixed line networks access networks ; or
- a subscriber or terminal/telephone that has non-fixed access to the public network, i.e. it is the line identity that has been allocated to an individual subscriber or terminal/telephone with a non-fixed access to the public network.

¹ This case is known in ETSI documentation as Presentation Restricted by Network.

NOTE 1: This number has additional uses in connection with charging and malicious call identification.

NOTE 2: Network number is also known as administration number, electric number, or billing number.

NOTE 3: A network number may be network provided (NP), user provided verified and passed (UPVP).

NOTE 4: network number is always qualified as either available, unavailable or restricted/withheld.

NOTE 5: The use of one number to identify both originating and terminating access is permitted by this definition, but only where both accesses are owned by one network operator, or where agreement for its use is reached between the operators involved.

network provided (NP) number

A number that is stored in the public network.

NOTE 1: A network provided number may also be referred to as a default number.

NOTE 2: A network provided number may be a network number or a presentation number.

NOTE 3: On ISDN calls it is forwarded by the network if there is no special arrangement, and the customer's equipment does not send a number, or the number sent fails screening.

not-required

Where a service/feature is qualified in this specification as "not required" it is not necessary for either the associated underlying functionality or signalling protocols to be supported by the implementation concerned. The compatibility rules shall apply to the messages, parameters and codepoints needed to support the feature/service. These messages, parameters, and codepoints may be treated as recognised or unrecognised according to the capabilities of the recipient exchange. Implementations shall not rely on "not-required" features being disabled (or enabled) at a peer entity.

Note: Interconnected or communicating implementations that provide support of the service/feature/message/parameter identified will not be considered as non-conformant to the specification.

originating network

The network to which the customer who originates a call is directly connected.

outgoing network

The network from which a call is passed to a point of interconnection between two networks.

NOTE: The *outgoing network* may be the *originating network* or a *transit network*.

overloaded exchange

An exchange that reports to another exchange over a directly connected ISUP traffic route that it is overloaded.

ported number

A number which has been relocated to another network

presentation number (PN)

A number nominated by the customer to which a return or subsequent call can be made.

NOTE 1: Presentation number is used when the network number of the calling customer is not suitable for display. This is important where PABXs have segregated incoming and outgoing lines.

NOTE 2: Presentation number is also known as diallable number.

NOTE 3: A presentation number may be type 1 which is network provided (NP), type 2 which is user provided verified and passed (UPVP) or type 3 which is user provided not verified (UPNV).

recipient network

The Network which has gained the ported number.

required

Where a service/feature/message/parameter is qualified as "required" it shall be fully supported by the implementation concerned.

Note: The term may be applied independently to an interface protocol and/or the underlying functionality.

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reserved

Codespace and codepoints defined in this specification as “reserved” are available for use only with the agreement of the PNO-ISC.

shall not be sent/used

Where a message/parameter/codepoint is qualified by the statement “shall not be sent/used”, it is a mandatory requirement that it shall not be sent across a point of interconnect, and that normal operation of the system shall not depend on its reception.

source exchange

An exchange that sends calls over a directly connected ISUP traffic route, to another exchange that reports that it is overloaded.

spare

In ITU-T recommendations, codespace and codepoints indicated as “spare” or “spare for international use” are available for future ITU-T assignment. Codespace and codepoints indicated as “spare for national use” are not available for ITU-T assignment. In PNO-ISC specifications no UK-specific codespace or codepoint shall be shown as “spare”. All unallocated UK-specific codespace and codepoints shall be defined as “reserved”. Therefore, the only application of the term “spare” in the UK specifications is with reference to ITU recommendations. The UK meaning of “spare” as applied to ITU-T codespace and codepoints is the same as the ITU meaning.

terminating network

The network to which the customer who receives a call is directly connected.

third party network

The network involved in carrying a ‘ported’ call between Donor Network and Recipient Network, but which is neither the Donor or Recipient Network, e.g. a transit network

transit network

A network through which a call passes, but which is neither the originating network nor the terminating network for that call.

NOTE: A transit network acts as outgoing network and as an incoming network.

UK-specific codespace

Codespace that is specified by the PNO-ISC for use in the UK only.

UK-specific codepoint

A codepoint that has been assigned a meaning by the PNO-ISC for use in the UK only.

user provided, not verified (UPNV) number

A number that is supplied by a user and has not been subjected to screening or editing by the network.

user provided, verified and passed (UPVP) number

A number whose most significant part is network provided and whose least significant part is supplied by a user and successfully checked by the network for length and range.

NOTE 1: A user provided, verified and passed number may be a network number or a presentation number.

0.0.8 Scope

The scope of this document is described in section 0.1.

0.1 Introduction to PNO-ISC/SPEC/007

This UK ISDN User Part (ISUP) specification has been produced by the Public Network Operators Interconnect Standards Committee (PNO-ISC). This document specifies the ISUP protocol required on interconnections between public telecommunications networks in the UK.

This issue of this specification contains the functionality of the ITU-T ISUP 2000 modified to include changes specified by ETSI ISUP version 4, and to include additional functionality which is required for the UK.

This specification is written as exceptions to ITU-T and ETSI documents. This is done by listing each paragraph of the ITU recommendation to be modified, identifying the exceptions in ETSI and the additional UK requirements.

Items for which no table row has been included are required with the exception of items in ITU-T recommendations or ETSI specifications marked as "national use" or "network option", which are not required.

Comments have been added against specific paragraphs and qualified as either:

UK: = additional UK specific national requirements, and errors or clarifications to the reference documents.

E: = ETSI exceptions to the ITU-T recommendations.

Some UK specific parameters/messages are marked as "(Intra-network use only)". This means that the parameters/messages are for use by one UK licensed operator and the code point has been reserved. At the interworking point between operators the parameter/message is handled according to its compatibility information.

The procedures in ITU-T Recommendation Q.764 [110] are written in terms of actions at the originating exchange, intermediate national exchange, outgoing international exchange, intermediate international exchange, incoming international exchange and destination exchange. For application to interconnection in the UK, the procedures specified for the originating exchange shall apply to the originating network, those specified for an intermediate national exchange shall apply to a transit network, and those specified for the destination exchange shall apply to the terminating network. In general, the procedures specified for the three types of international exchange are not applicable. Other references to 'exchange', eg interworking exchange, should be taken to apply to the equivalent network.

0.2 Index of PNO-ISC/SPEC/007

Section 1 Functional Description

Exceptions to ITU-T recommendation Q.761 [107,] as modified by EN 300 356-1 [1].

Section 2 General functions of messages and signals

Exceptions to ITU-T recommendation Q.762 [108] as modified by EN 300 356-1 [1].

Section 3 Formats and Codes

Exceptions to ITU-T recommendation Q.763 [109] as modified by EN 300 356-1 [1].

Section 4 Signalling Procedures

Exceptions to ITU-T recommendation Q.764 [110] as modified by EN 300 356-1 [1].

Section 5 ISDN Supplementary Services

Exceptions to ITU-T recommendation Q.730 [61] as modified by EN 300 356-2 [2].

Section 6 Usage of Cause and Location

Exceptions to ITU-T recommendation Q.850 [87] as modified by EN 300 485 [88].

UK ISUP supplementary services are specified using the three stage procedure as described in ITU-T Recommendation I.130 [78]. The sections of this document specify, explicitly, or by reference, all three stages.

The list of sections below includes details of the documents referenced.

Section 7 Connected Line Identification Presentation/Restriction

Stage 1: ETS 300 094 [41] and ETS 300 095 [42] (no UK exceptions)

Stage 2: ETS 300 096 [43] (no UK exceptions)

Stage 3: Q.731.5 [68] as modified by EN 300 356-5 [5] and Q.731.6 [68] as modified by EN 300 356-6 [6]

Section 8 Calling Line Identification Presentation/Restriction

Stage 1: ETS 300 089 [38] and ETS 300 090 [39] as modified by PNO-ISC/SER/002 [70]

Stage 2: exceptions to ETS 300 091 [40] as modified by PNO-ISC/SER/002 [70]

Stage 3: exceptions to Q.731.3 [68] as modified by EN 300 356-3 [3] and Q.731.4 [68] as modified by EN 300 356-4 [4]

Section 9 Anonymous Call Rejection

Stage 1: EN 301 798 [98] (no UK exceptions)

Stage 2:

Stage 3: ETS 300 356-21 [97]

Section 10 UK Number Portability

Stage 1: PNO-ISC/SER/003 [75]

PNO-ISC/SER/007 [101]

PNO-ISC/SER/008 [102]

Stage 2: PNO-ISC/SER/003 [75]

PNO-ISC/SER/007 [101]

PNO-ISC/SER/008 [102]

Section 11 Completion of Calls to Busy Subscriber

Stage 1: ETS 300 357 [52] as modified by PNO-ISC/SER 001 [71]
Stage 2: ETS 300 358 [53] as modified by PNO-ISC/SER 001 [71]
Stage 3: exceptions to EN 300 356-18 [18]

Section 12 CCNR

Stage 1: EN 301 134 [96]
Stage 2:
Stage 3: exceptions to Q.733.5 [76] as modified by EN 300 356-20 [81]

Section 13 Spare

Section 14 Malicious Call Identification

Stage 1: ETS 300 128 [44] as amended by ETS 300 128/A1 [92]
Stage 2: ETS 300 129 [45]
Stage 3: exceptions to Q.731.7 [62] as modified by EN 300 356-11 [11]

Section 15 Call Forwarding, Unconditional

Stage 1: exceptions to ETS 300 200 [21]
Stage 2: ETS 300 204 [25] (no UK exceptions)
Stage 3: exceptions to Q.732.4 [65] as modified by EN 300 356-15 [15]

Section 16 Call Forwarding, No Reply

Stage 1: exceptions to ETS 300 201 [22] as amended by ETS 300 201/A1 [82]
Stage 2: ETS 300 205 [26] (no UK exceptions)
Stage 3: exceptions to Q.732.3 [65] as modified by EN 300 356-15 [15]

Section 17 Call Forwarding, Busy

Stage 1: exceptions to ETS 300 199 [20]
Stage 2: ETS 300 203 [24] (no UK exceptions)
Stage 3: exceptions to Q.732.2 [65] as modified by EN 300 356-15 [15]

Section 18 Call Forwarding, Not Reachable

Stage 1: PNO-ISC/SER/004 [64]
Stage 2: PNO-ISC/SER/004 [64]
Stage 3:

Section 19 Explicit Call Transfer

Stage 1: ETS 300 367 [54] (no UK exceptions)
Stage 2: ETS 300 368 [55] (no UK exceptions)
Stage 3: exceptions to Q.732.7 (Pre-published 12/99) [104] as modified by EN 300 356-14 [14]

Section 20 Indirect access

Stage 1:
Stage 2:

Section 21 NNI Extensions to Support PSS1 information flows

Exceptions to Q.765.1[85] as modified by EN 301 062-1 [106]

Section 22 UK Carrier Pre-Selection

Stage 1: 'Carrier Pre-Selection in the UK' [103]

Stage 2: 'Carrier Pre-Selection in the UK' [103]

Section 23 Operator Services

Stage 1: PNO-ISC/SER/009 [74]

Stage 2: PNO-ISC/SER/009 [74]

Section 24 Spare

Section 25 Spare

Section 26 Call Deflection

Stage 1: ETS 300 202 [23] amended by ETS 300 202/A1 [89] (no UK exceptions)

Stage 2: ETS 300 206 [27] (no UK exceptions)

Stage 3: Exceptions to Q.732.5 [65] as modified by EN 300 356-15 [15]

Section 27 Targeted Transit

Stage 1: PNO-ISC/SER/006 [84]

Stage 2: PNO-ISC/SER/006 [84]

0.3 Other network features and supplementary services

The following network features and supplementary services are applicable to UK ISUP, however, there are no UK specific requirements.

Application Transport Mechanism

Q.765[86] as amended by EN 301 069-1 [105]

Three Party (3Pty)

Stage 1: ETS 300 186 [48]

Stage 2: ETS 300 187 [49] as corrected by ETS 300 187/C1 [93]

Stage 3: EN 300 356-19 [19]

Direct Dialling In (DDI)

Stage 1: ETS 300 062 [36]

Stage 2: ETS 300 063 [37]

Stage 3: Q.731.1 [79]

Multiple Subscriber Number (MSN)

Stage 1: ETS 300 050 [28]

Stage 2: ETS 300 051 [29]

Call Waiting (CW)

Stage 1: ETS 300 056 [32] as amended by ETS 300 056/A1 [91]

Stage 2: ETS 300 057 [33]

Stage 3: EN 300 356-17 [17]

Conference call, add-on (CONF)

Stage 1: ETS 300 183 [56] as amended by ETS 300 183/A1 [90]

Stage 2: ETS 300 184 [57] as corrected by ETS 300 184/C1 [94]

Stage 3: EN 300 356-12 [12]

Closed User Group (CUG)

Stage 1: ETS 300 136 [58]
Stage 2: ETS 300 137 [59]
Stage 3: EN 300 356-9 [9]

Call Hold (HOLD)

Stage 1: ETS 300 139 [46]
Stage 2: ETS 300 140 [47]
Stage 3: EN 300 356-16 [16]

Terminal Portability (TP)

Stage 1: ETS 300 053 [30]
Stage 2: ETS 300 054 [31]
Stage 3: EN 300 356-7 [7]

Subaddressing (Sub)

Stage 1: ETS 300 059 [34]
Stage 2: ETS 300 060 [35]
Stage 3: EN 300 356-10 [10]

User-to-user signalling (UUS)

Stage 1: ETS 300 284 [50]
Stage 2: ETR 285 [51]
Stage 3: EN 300 356-8 [8]

END OF PNO-ISC/SPEC/007\$0

1 Functional Description (Q.761)

1.1 Exceptions

Q.761 Paragraph	Title	Comment
3	Capabilities supported by the ISDN User Part	E: Replace table 1/Q.761 and 2/Q.761 with the first four columns of the Table 1.1 UK: Add UK column to table 1/Q.761 and 2/Q.761 (fifth column of Table 1.1), and UK features (Table 1.2)
Table 4/Q.761	Minimum message set recognized at the international interface	UK: Not Required
Table 5/Q.761	Minimum parameter set recognized at the international interface	UK: Not Required
6.1	Version compatibility	E: Insert the following before the second last sentence; 'It is a network operator's option whether compatibility information is included for network specific messages and parameters.' UK: Replace the ETSI modification with the following; 'Network operators shall include compatibility information for network specific messages and parameters.'
Appendix A	Guidelines for use of instruction indicators	E: Appendix A has the status of an informative annex UK: Note that the 'Appendix A' in the approved ITU-T text (on which the ETSI statement was based) changed to be named 'Appendix I' in the published version.

TABLE 1.1 - Capabilities required by the ISDN User Part

Function/service	National use according to ITU-T	International use according to ITU-T	International use according to ETSI	UK
Basic call				
Speech/3,1 kHz audio	+	+	+	+
64 kbit/s unrestricted	+	+	+	+
Multirate connection types (NOTE 1)	+	+	+	-
Nx64 kbit/s connection types	+	+	-	-
En-bloc address signalling	+	+	+	+
Overlap address signalling	+	+	+	+
Transit network selection	+	-	-	-
Continuity check	+	+	+	-
Forward transfer	-	+	+	-
Signalling procedures for connection type allowing fallback capability	+	+	+	+
Compatibility procedure	+	+	+	+
Simple segmentation	+	+	+	+
Tones and announcements	+	+	+	+
Propagation delay determination procedure	+	+	+	-
Enhanced echo control signalling procedures	+	+	+	-
Simple echo control signalling procedures	+	+	+	+
Automatic repeat attempt	+	+	+	+
Blocking and unblocking of circuits and circuit groups	+	+	+	+
Circuit group query	+	-	-	-
Dual seizure	+	+	+	+
Transmission alarm handling for digital inter-exchange circuits	+	+	+	+
Reset of circuits and circuit groups	+	+	+	+
Receipt of unreasonable signalling information	+	+	+	+
Access delivery information	+	+	+	+
Transportation of user teleservice information	+	+	+	+
Suspend and resume	+	+	+	+
Temporary trunk blocking	+	-	-	-
ISDN user part signalling congestion control	+	+	+	+
Automatic congestion control	+	+	+	+
Interaction between N-ISDN and INAP	+	+	+	+
Unequipped circuit identification code	+	-	-	-
ISDN user part availability control	+	+	+	+
MTP pause and resume	+	+	+	+
Overlength messages	+	+	+	+
Temporary alternative routing (TAR)	+	+	+	+
Hop counter procedure	+	+	+	+
Collect call request procedure	+	+	+	-
Hard-to Reach	+	+	-	-
Calling Geodetic location procedure	+	+	+	+
Carrier Selection Information (NOTE 2)	+	-	-	-
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	+	+	+	+
Service activation	+	+	+	+
Remote operations service (ROSE) capability	+	-	-	-
Network specific facilities	+	-	-	-
Pre-release Information transport	+	+	+	+
Application transport Mechanism (APM)	+	+	+	+
Redirection	+	-	-	-
Pivot Routing	+	+	-	-

TABLE 1.1 Continued- **Capabilities required by the ISDN User Part**

Function/service	National use according to ITU-T	International use according to ITU-T	International use according to ETSI	UK
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	+	+	+	+
CCNR	+	+	+	+
MWI	-	-	+	-
ITCC	+	+	-	-
GVNS	+	+	NOTE 3	NOTE 3
REV	+	-	-	-
ACR	-	-	+	+
Additional function/services				
VPN	-	-	+	+
NP	+	-	-	-
Key: + required - not required				
NOTE 1: Multirate connection types are 2 × 64, 384, 1 536 and 1 920 kbit/s.				
NOTE 2: This is not part of the ITU-T ISUP 2000 set of recommendations				
NOTE 3: GVNS is not required as an ETSI or UK service, but the ITU-T parameters can still be used in conjunction with Core INAP CS2.				

1.2 Additions

TABLE 1.2 - Additional Capabilities & Services required by the UK ISDN User Part

Function/service	National use according to ITU-T	International use according to ITU-T	International use according to this ETS	UK
UK basic call features				
Partial Calling Line Identity (PCLI)	-	-	-	+
Basic Service and Facility Marks	-	-	-	+
UK supplementary services				
Indirect Access	-	-	-	+
UK Carrier Pre-selection	-	-	-	+
Call forward on subscriber not reachable (CFNRc)	-	-	-	+
Enhanced Operator Services	-	-	-	+
UK Number Portability	-	-	-	+
Targeted Transit	-	-	-	+
UK CLIP (including PN & CBI)	-	-	-	+
UK Diversion Services (including LDLI)	-	-	-	+
Key: + required - not required				

END OF PNO-ISC/SPEC/007§1

2 General Function of Messages and Signals (Q.762)

2.1 Exceptions

Q.762 Paragraph	Title	Comment
2.34	release message	E: Delete the sentence "Where the call is to be redirected the message will also carry the redirection number."
3.x	IN service compatibility	E: add the following new item Information sent in either direction indicating the IN Services being invoked in a call.
3.y	Carrier selection information (CSI)	E: add the following new item Information sent in the forward direction to indicate the method (namely call per call or preselection) being used to invoke carrier selection.
3.z	Global Call Reference (GCR)	E: add the following new item Information sent in the forward direction to correlate call activities
4.2	Address Presentation Restriction Indicator	E: Add the following to the last sentence "It may also be used to indicate that the address cannot be ascertained, and in the case of the Calling Party Number only, to indicate that the number may not be presented to a user for reasons other than invocation of the CLIR service ("Presentation Restricted by network")."
4.xx	IN Service Compatibility indication	E: add the following new item Information sent in either direction indicating the IN Services being invoked in a call.
4.ax	APM-user Information	E: add the following new item information supplied by the APM-user application and conveyed in the Application Transport Parameter.
4.ay	Destination Address	E: add the following new item Address of the node where the APM-user application information shall be delivered.
4.az	Destination Address length	E: add the following new item binary coded information indicating the number of octets in the Destination Address field.
4.ay	Originating Address	E: add the following new item Address of the node which has initiated the relationship with the remote APM-user application.
4.ax	Originating Address length	E: add the following new item binary coded information indicating the number of octets in the Originating Address field.
4.aa	Network ID length indicator	E: add the following new item Binary coded information indicating the number of octets in the Network ID field.
4.bb	Network ID	E: add the following new item Information identifying a network
4.cc	Node ID	E: add the following new item Information sent in the Global Call Reference parameter to identify the node that generated the call reference.

Q.762 Paragraph	Title	Comment
4.dd	Node ID length indicator	E: add the following new item Binary coded information indicating the number of octets in the Node ID field.
4.ee	Call reference ID	E: add the following new item Information sent in the Global Call Reference parameter indicating the reference associated to the call.
4.ff	Call reference length indicator	E: add the following new item Binary coded information indicating the number of octets in the Call Reference ID field.

2.2 Additions

2.2.1 UK Specific Signalling Messages

No UK specific signalling messages have been defined.

2.2.2 UK Specific Signalling Parameters

2.2.2.1 National Forward Call Indicators

UK specific information sent in the forward direction relating to characteristics of the call.

2.2.2.2 Presentation Number

A type of calling party number used in support of the UK CLIP supplementary service.

2.2.2.3 Last Diverting Line Identity

UK specific information identifying the address of the last diverting line.

2.2.2.4 Partial Calling Line Identity (PCLI)

UK specific information used to partially identify the origin of calls when calling line identity is not available.

2.2.2.5 Called Subscribers Basic Service Marks

UK specific information identifying the basic service marks associated with a called customer.

2.2.2.6 Calling Subscribers Basic Service Marks

UK specific information identifying the basic service marks associated with a calling customer.

2.2.2.7 Calling Subscribers Originating Facility Marks

UK specific information identifying the facility marks associated with a calling customer.

2.2.2.8 Called Subscribers Terminating Facility Marks

UK specific information identifying the facility marks associated with a called customer.

2.2.2.9 National Information Request Indicators

UK specific information request indicators.

2.2.2.10 National Information Indicators

UK specific information indicators.

2.2.2.11 National Forward Call Indicators (Link by link)

UK specific information sent on a link by link basis.

2.2.3 Specific Parameter Information

2.2.3.1 Presentation Number Preference (PNP) indicator

Information used to select a number for display in support of the UK CLIP supplementary service.

2.2.3.2 Type of switch

Network specific information used within PCLI to identify the switch type of the first C7 node.

2.2.3.3 PNO identity

UK specific information uniquely identifying a PNO within the UK.

2.2.3.4 Switch number

Network specific information uniquely identifying an individual switch within a PNO's network.

2.2.3.5 Admin./Maintenance Call Barring Indicator

Information indicating whether or not incoming admin/maintenance calls are barred.

2.2.3.6 Subscriber Controlled Incoming Calls Barred (ICB) Indicator

Information indicating whether or not incoming calls are barred by subscriber control.

2.2.3.7 Pre-arranged ICB Indicator

Information indicating whether or not incoming calls are barred on a pre-arranged basis.

2.2.3.8 Permanent ICB Indicator

Information indicating whether or not incoming calls are barred on a permanent basis.

2.2.3.9 Temporary Out of Service (TOS)

Information indicating whether or not the subscriber is temporary out of service.

2.2.3.10 ICB, Except for Operator, Indicator

Information indicating whether or not all incoming calls are barred, except for operator calls.

2.2.3.11 Called Subscriber Facility Information Indicator

Information indicating whether or not the called subscriber has facility information.

2.2.3.12 Calling Subscriber Facility Information Indicator

Information indicating whether or not the calling subscriber has facility information.

2.2.3.13 Permanent Outgoing Calls Barred (OCB) Indicator

Information indicating whether or not the called or calling subscriber has outgoing calls barred.

2.2.3.14 Outgoing Local Calls Barred Indicator

Information indicating whether or not the called or calling subscriber has outgoing Local Calls barred.

2.2.3.15 Outgoing National Calls Barred Indicator

Information indicating whether or not the called or calling subscriber has outgoing National Calls barred.

2.2.3.16 Outgoing International Calls Barred Indicator

Information indicating whether or not the called or calling subscriber has outgoing International Calls barred.

2.2.3.17 Operator Calls Barred Indicator

Information indicating whether or not the called or calling subscriber has Operator Calls barred.

2.2.3.18 Supplementary Facility Calls Barred Indicator

Information indicating whether or not the called or calling subscriber has Supplementary Facility Calls barred, (except for removal of barring).

2.2.3.19 Digit Masking Indicator

Information indicating whether or not the called or calling subscriber requires digit masking.

SEE PAGE 2 FOR THE NORMATIVE INFORMATION

2.2.3.20 Calls to Premium-phones Barred Indicator

Information indicating whether or not the called or calling subscriber has calls to Premium-phones barred.

2.2.3.21 Calling/ Called Subscriber's Tariff Group Indicator

Information indicating the called or calling customers tariff group.

2.2.3.22 Operator Indicator

Information indicating whether an Operator has been involved in the establishment of the call.

2.2.3.23 Disabled Subscriber Indicator

Information indicating whether or not the customer is disabled.

2.2.3.24 Attendant Call Office Indicator

Information indicating whether or not the call is from an attendant call office.

2.2.3.25 Advise Duration and Charge (AD&C) Indicator

Information indicating whether or not advice of duration and charge is required on the call.

2.2.3.26 PBX Subscriber Indicator

Information sent in the forward direction indicating whether or not the call is from a PBX.

2.2.3.27 SVI Indicator

Information indicating whether or not the customer is connected to the SVI service.

2.2.3.28 CNI Indicator

Information indicating whether or not the customer is connected to the CNI service.

2.2.3.29 PBX Night Interception Indicator

Information indicating whether or not the customer is connected to the PBX Night Interception service.

2.2.3.30 Call Waiting Indicator

Information indicating whether or not the customer has the call waiting service activated.

2.2.3.31 Fixed Destination Service Indicator

Information indicating whether or not the customer is connected to the Fixed Destination service.

2.2.3.32 Calling Subscriber's Basic Service Marks request indicator

Information indicating a request for the calling subscriber's Basic service marks to be returned.

2.2.3.33 Called Subscriber's Basic Service Marks request indicator

Information indicating a request for the called subscriber's Basic service marks to be returned.

2.2.3.34 Calling Subscriber's Originating Facility Marks request indicator

Information indicating a request for the calling subscriber's originating facility marks to be returned.

2.2.3.35 Called Subscriber's Terminating Facility Marks request indicator

Information indicating a request for the called subscriber's terminating facility marks to be returned.

2.2.3.36 Calling Subscriber's Basic Service Marks response indicator

Information sent in response to a request for the Calling Subscriber's Basic Service Marks.

2.2.3.37 Called Subscriber's Basic Service Marks response indicator

Information sent in response to a request for the Called Subscriber's Basic Service Marks.

2.2.3.38 Calling Subscriber's Originating Facility Marks response indicator

Information sent in response to a request for the Calling Subscriber's Originating Facility Marks.

2.2.3.39 Called Subscriber's Terminating Facility Marks response indicator

Information sent in response to a request for the Called Subscriber's Terminating Facility Marks.

2.2.3.40 Routing Control Indicator

The Routing Control Indicator (RCI) is used to indicate the preferred routing options.

2.2.3.41 CLI Blocking Indicator

The CLI blocking Indicator (CBI) is information sent in the forward direction to indicate whether or not the Network Number (CgPN parameter) may be presented to the called user.

2.2.3.42 Network Translated Address Indicator

The Network Translated Address Indicator is information sent in the forward direction to indicate whether network translation of the called address has occurred.

2.2.3.43 Priority Access Indicator (IUP)

The priority access indicator is an IUP indicator transparently transported in the forward direction.

2.2.3.44 Protection Indicator (IUP)

The protection indicator is an IUP indicator transparently transported in the forward direction.

2.2.3.45 Interconnect Specific Information

Bilaterally agreed information sent in the forward direction on a link by link basis.

END OF PNO-ISC/SPEC/007§2

3 Formats and Codes (Q.763)

3.1 Exceptions

Q.763 Paragraph	Title	Comment
1.0.5	General	E: 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)."
1.2	Circuit identification code	E: The following items are not supported - item e) Nx64Kbit/s - Table 3/Q.763, part 2 UK: The following items are not required:- - b) 8448 kbit/s digital path - c) Frequency division multiplex (FDM) systems in networks using the 2048 kbit/s pulse code modulation standard - d) Multirate - Table 1/Q.763 - Table 2/Q.763 - Table 3/Q.763
1.11	National message types and parameters	UK: National message type codes are divided as follows:- 1111 1111 - 1111 0000 reserved for interconnect use 1110 0000 - 1110 1111 reserved for operator use National parameter name codes are divided as follows:- 1111 1111 - 1110 0000 reserved for interconnect use 1100 0010 - 1101 1111 reserved for operator use NOTE: The interconnect codes are used from the highest available code down and the operator codes are used from the lowest available code up.
1.13	Meaning of "Spare" codes and "reserved" codes	E: Replace the word 'ITU-T' by 'ETSI' in the three instances of the word in the subclause UK: In this specification no UK-specific codespace or codepoint is shown as "spare". All unallocated UK-specific codespace and codepoints are defined as "reserved". The UK meaning of "spare" as applied to ITU-T codespace and codepoints is the same as the ITU meaning.
1.14	Number Lengths	E: Insert a new subclause 1.14 'For the international interface the number lengths to be supported by ISUP are restricted by the limits defined by E.164. This applies to the called party number, whether signalled by the en bloc or overlap methods, and all the other number types transferred by ISUP, e.g. Calling Party Number, etc. However, within national networks, it is acknowledged that the E.164 number length is too restrictive for some applications, and specifically various national requirements for the extension of the called party number are known. The following remarks are made with regard to extension of number lengths for use within national networks: Interoperability problems can be foreseen with peer-to-peer interworking to earlier versions of ISUP, which may only support the parameter lengths indicated in previous versions of ISUP. Gateway exchanges between networks using extended number lengths and the international network have to ensure that only E.164 number lengths are passed to the international network.'

Q.763 Paragraph	Title	Comment																																																																
2.1 Table 4	Message type codes	UK: The following message types are not required:- - Forward transfer - Continuity - Continuity check request - Network resource management Delete "(national use)" for the following messages:- - Information - Information request																																																																
3.1 Table 5	Parameter names	E: Modify table 5/Q.763 as shown <table><tr><th>Parameter name</th><th>Code</th></tr><tr><td>:</td><td>:</td></tr><tr><td>Connection Request <u>(not Required)</u></td><td>0000 1101</td></tr><tr><td>:</td><td>:</td></tr><tr><td>MLPP precedence <u>(not Required)</u></td><td>0011 1010</td></tr><tr><td>:</td><td>:</td></tr><tr><td>Pivot capability <u>(not required)</u></td><td>0111 1011</td></tr><tr><td>Pivot routing forward indicators <u>(not required)</u></td><td>0111 1100</td></tr><tr><td>:</td><td>:</td></tr><tr><td>HTR information <u>(not required)</u></td><td>1000 0010</td></tr><tr><td>:</td><td>:</td></tr><tr><td>Pivot counter <u>(not required)</u></td><td>1000 0111</td></tr><tr><td>Pivot routing forward information <u>(not required)</u></td><td>1000 1000</td></tr><tr><td><u>Pivot routing backward information</u> <u>(not required)</u></td><td>1000 1001</td></tr><tr><td>:</td><td>:</td></tr><tr><td><u>IN Service Compatibility</u></td><td><u>1010 0010</u></td></tr><tr><td><u>Carrier selection information</u></td><td>1010 0001</td></tr><tr><td><u>Global Call Reference</u></td><td><u>1010 0100</u></td></tr><tr><td>:</td><td>:</td></tr><tr><td><u>Reserved for national use</u></td><td>0100 0001</td></tr></table> UK: The following parameters are not required: - Circuit assignment map - Collect call request - Continuity indicators - Echo control information - Origination ISC point code - Propagation Delay Counter - Call History Information UK: Delete (national use) for the:- - Information indicators - Information request indicators UK: Add the following parameters: <table><tr><th>Parameter name</th><th>Code</th></tr><tr><td>National Forward Call Indicators</td><td>1111 1110</td></tr><tr><td>Presentation Number</td><td>1111 1101</td></tr><tr><td>Last Diverting Line Identity</td><td>1111 1100</td></tr><tr><td>Partial CLI</td><td>1111 1011</td></tr><tr><td>Called Subscribers Basic Service Marks</td><td>1111 1010</td></tr><tr><td>Calling Subscribers Basic Service Marks</td><td>1111 1001</td></tr><tr><td>Calling Subscribers Originating Facility Marks</td><td>1111 1000</td></tr><tr><td>Called Subscribers Terminating Facility Marks</td><td>1111 0111</td></tr><tr><td>National Information Request Indicators</td><td>1111 0110</td></tr><tr><td>National Information Indicators</td><td>1111 0101</td></tr><tr><td>National Forward Call Indicators (Link by link)</td><td>1111 0100</td></tr></table>	Parameter name	Code	:	:	Connection Request <u>(not Required)</u>	0000 1101	:	:	MLPP precedence <u>(not Required)</u>	0011 1010	:	:	Pivot capability <u>(not required)</u>	0111 1011	Pivot routing forward indicators <u>(not required)</u>	0111 1100	:	:	HTR information <u>(not required)</u>	1000 0010	:	:	Pivot counter <u>(not required)</u>	1000 0111	Pivot routing forward information <u>(not required)</u>	1000 1000	<u>Pivot routing backward information</u> <u>(not required)</u>	1000 1001	:	:	<u>IN Service Compatibility</u>	<u>1010 0010</u>	<u>Carrier selection information</u>	1010 0001	<u>Global Call Reference</u>	<u>1010 0100</u>	:	:	<u>Reserved for national use</u>	0100 0001	Parameter name	Code	National Forward Call Indicators	1111 1110	Presentation Number	1111 1101	Last Diverting Line Identity	1111 1100	Partial CLI	1111 1011	Called Subscribers Basic Service Marks	1111 1010	Calling Subscribers Basic Service Marks	1111 1001	Calling Subscribers Originating Facility Marks	1111 1000	Called Subscribers Terminating Facility Marks	1111 0111	National Information Request Indicators	1111 0110	National Information Indicators	1111 0101	National Forward Call Indicators (Link by link)	1111 0100
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Called Subscribers Terminating Facility Marks	1111 0111																																																																	
National Information Request Indicators	1111 0110																																																																	
National Information Indicators	1111 0101																																																																	
National Forward Call Indicators (Link by link)	1111 0100																																																																	

Q.763 Paragraph	Title	Comment
3.5	Backward call indicators	UK: The following codepoints are not required and if received shall be treated at a receiving node as the default value:- bits DC: Called party status indicator Value 10 Connect when free (national use) Default 00 no indication bits HG: End-to-end method indicator Value All Default 00 no end-to-end method available (only link- by-link method available) bits PO: SCCP method indicator Value All Default 00 no indication Delete the national use for the following indicators:- bit L: Holding indicator
3.7	Call History Information	UK: Parameter not required
3.9	Called party number Item b) Nature of address indicator	UK: Add the following codepoint: 111 1110 UK Specific Address UK: Add the following note 'Note: Under current UK numbering arrangements, the Called Party Number parameter may contain up to 20 digits. This is under review, and further information may be found in Ofel document 'The UK National Numbering Scheme'.'
3.10	Calling party number Item e) – Address presentation restricted indicator Item b) - Nature of address indicator item g) - Address signal	E: Modify the code definition of <i>Address Presentation Restricted Indicator</i>: 11 ~~Reserved for restriction by the network~~ <u>Presentation restricted by network</u> UK: Delete (national use) for the national (significant) number UK: Codes 11 and 12 are not used
3.11	Calling party's category	UK: amend text as follows:- 0000 0000 calling party's category unknown at this time (national use) 0000 1001 ~~reserved (see recommendation Q.104) (note) (national use)~~ National Operator 1111 1010 <u>Admin. Diversion - Payphone with priority</u> 1111 1011 <u>Admin. Diversion - Ordinary with priority</u> 1111 1100 <u>OSS Operator</u> 1111 1101 <u>Admin. Diversion - Payphone</u> 1111 1110 <u>Admin. Diversion - Ordinary</u> NOTE—In national networks, code 00001001 may be used to indicate that the calling party is a national operator
3.17	Connection request	E: Add "(Not Required)" to the subclause title
3.18	Continuity indicators	UK: Parameter not required
3.19	Echo control information	UK: Parameter not required

Q.763 Paragraph	Title	Comment
3.23	Forward call indicators	UK: The following codepoints are not required and if received shall be treated at a receiving node as the default value:- bits CB: End-to-end method indicator Value All Default 00 no end-to-end method available (only link- by-link method available) bits KJ: SCCP method indicator Value All Default 00 no indication
3.26	Generic Number Item a) Number qualifier indicator Item c) Nature of address indicator Item e) Number plan indicator Item g) Screening indicator	UK: Add the following codepoints: 1111 1110 UK specific number (for intra-network use only) 1111 1101 Intercepted Line Identity E: Modify the code definition of the following codes: 000 0101 ~~spare~~ <u>PISN specific number (national use)</u> 000 0110 to _ spare 110 1111 E: Modify the code definition of the following code: 000 ~~spare~~ <u>unknown (national use)</u> UK: Amend text to read “Only used if the number qualifier indicator is coded 0000 0101 (additional connected number), 0000 0110 (additional calling party number) or <u>1111 1101 (Intercepted line identity)</u>. This indicator is coded as follows: 00 user provided, not verified 01 user provided, verified and passed 10 user provided, verified and failed 11 network provided Note – For each supplementary service the relevant codes and possible default settings are described in the supplementary service Recommendations (Recommendation Q.73x and PNO-ISC/SPEC/007 Sections 5 - 27).”
3.28	Information indicators (national use)	UK: Delete (national use) All indicators defaulted to 0 at the sending node and ignored by all other nodes.
3.29	Information request indicators (national use)	UK: Delete (national use) All indicators defaulted to 0 at the sending node and ignored by all other nodes.
3.34	MLPP precedence	E: Add “(Not Required)” to the sub-clause title.

Q.763 Paragraph	Title	Comment
3.35	Nature of connection indicators bits DC - Continuity check indicator	UK: Set as 00
3.37	Optional backward call indicators bit D - MLPP user indicator	E: Add “(not required)” to the value 1 (MLPP user) of the “MLPP user indicator”.
3.39	Original called number	UK: Modify the coding as follows b) Nature of address indicator 0 0 0 0 0 1 1 national (significant) number (national use)
3.40	Origination ISC point code	UK: Parameter not required
3.42	Propagation Delay Counter	UK: Parameter not required
3.54	Transmission medium requirement	E: Modify as follows: ‘The following codes are used in the transmission medium requirement parameter field: 0000 0000 speech 0000 0001 spare 0000 0010 64 kbit/s unrestricted 0000 0011 3,1 kHz audio 0000 0100 reserved for alternate speech (service 2)/64 kbit/s unrestricted (service 1) 0000 0101 reserved for alternate 64 kbit/s unrestricted (service 1)/speech (service 2) 0000 0110 64 kbit/s preferred 0000 0111 2 × 64 kbit/s unrestricted 0000 1000 384 kbit/s unrestricted 0000 1001 1 536 kbit/s unrestricted 0000 1010 1 920 kbit/s unrestricted 0000 1011 } to } spare 0000 1111 } 0001 0000 reserved for 3 × 64 kbit/s unrestricted 0001 0001 reserved for 4 × 64 kbit/s unrestricted 0001 0010 reserved for 5 × 64 kbit/s unrestricted 0001 0011 spare 0001 0100 reserved for 7 × 64 kbit/s unrestricted 0001 0101 reserved for 8 × 64 kbit/s unrestricted 0001 0110 reserved for 9 × 64 kbit/s unrestricted 0001 0111 reserved for 10 × 64 kbit/s unrestricted 0001 1000 reserved for 11 × 64 kbit/s unrestricted 0001 1001 reserved for 12 × 64 kbit/s unrestricted 0001 1010 reserved for 13 × 64 kbit/s unrestricted 0001 1011 reserved for 14 × 64 kbit/s unrestricted 0001 1100 reserved for 15 × 64 kbit/s unrestricted 0001 1101 reserved for 16 × 64 kbit/s unrestricted 0001 1110 reserved for 17 × 64 kbit/s unrestricted 0001 1111 reserved for 18 × 64 kbit/s unrestricted 0010 0000 reserved for 19 × 64 kbit/s unrestricted 0010 0001 reserved for 20 × 64 kbit/s unrestricted 0010 0010 reserved for 21 × 64 kbit/s unrestricted 0010 0011 reserved for 22 × 64 kbit/s unrestricted 0010 0100 reserved for 23 × 64 kbit/s unrestricted 0010 0101 spare 0010 0110 reserved for 25 × 64 kbit/s unrestricted 0010 0111 reserved for 26 × 64 kbit/s unrestricted 0010 1000 reserved for 27 × 64 kbit/s unrestricted 0010 1001 reserved for 28 × 64 kbit/s unrestricted 0010 1010 reserved for 29 × 64 kbit/s unrestricted

Q.763 Paragraph	Title	Comment
		0010 1011 to 1111 1111 } } } spare UK: Delete all the codepoints for the support of the multirate bearer services.
3.62	Backward GVNS	E: Add “(Not Required)” to the sub-clause title.
3.66	Forward GVNS	E: Add “(Not Required)” to the sub-clause title.
3.69	Circuit assignment map	E: Not supported
3.81	Collect call request	UK: Parameter not required
3.82	Application transport parameter (APP)	UK: NOTE: The ETSI specification modifies the ITU APM text. This amendment is not required as it has been included in the base ITU specification [109] by amendment 1.
	Item b1) Application Context Identifier (ACI)	UK: Add the following Application Context Identifier (ACI) values 111 1110 [126] - Reserved for intra network use (BT) 111 1101 [125] - Legacy Operator Services 111 1100 [124] - Reserved for Manufacturer Specific Applications (Nortel) 111 1011 [123] - Reserved for Manufacturer Specific Applications (Ericsson)
3.85	Pivot routeing indicators	E: Not Supported
3.89	HTR information	E: Not Supported
2.93	Pivot Counter	E: Not Supported
3.94	Pivot routeing forward information	E: Not Supported
3.95	Pivot routeing backward information	E: Not Supported
3.xx	IN Service Compatibility	E: Add the following new subclause ‘The format of the IN Service Compatibility parameter field is shown in Figure X. 87654321 1 IN service Compatibility Indication Figure X/Q.763 – IN Service Compatibility parameter field The IN Service Compatibility Indication is coded according to the content of the INServiceCompatibilityIndication parameter defined in Q.1228.
3.yx	Carrier Selection Information (CSI) (national use)	E: Add the following new subclause The format of the Carrier Selection Information parameter field is shown in table x. Table x 87654321 HGFEDECB AA

Q.763 Paragraph	Title	Comment																																																																																										
		<u>Figure XX/Q.763 Carrier Selection Information parameter field</u> The following codes are used in the Carrier Selection Information parameter field : <table><tr><td><u>0000 0000</u></td><td><u>Reserved for no indication</u></td></tr><tr><td><u>0000 0001</u></td><td><u>Selected Carrier identification pre-subscribed and no input by calling party</u></td></tr><tr><td><u>0000 0010</u></td><td><u>Reserved for selected Carrier identification pre-subscribed and input by calling party</u></td></tr><tr><td><u>0000 0011</u></td><td><u>Reserved for selected Carrier identification pre-subscribed and input by calling party undetermined</u></td></tr><tr><td><u>0000 0100</u></td><td><u>Reserved for selected Carrier identification not pre-subscribed, and input by calling party</u></td></tr><tr><td><u>0000 0101</u></td><td><u>Carrier selected by input of calling party</u></td></tr><tr><td><u>0000 0110</u></td><td><u>Carrier selected by a network operator</u></td></tr><tr><td><u>0000 0111</u></td><td><u>}</u></td></tr><tr><td><u>to</u></td><td><u>}</u> <u>reserved</u></td></tr><tr><td><u>0000 1000</u></td><td><u>}</u></td></tr><tr><td><u>0000 1001</u></td><td><u>}</u></td></tr><tr><td><u>to</u></td><td><u>}</u> <u>spare</u></td></tr><tr><td><u>1111 1110</u></td><td><u>}</u></td></tr><tr><td><u>1111 1111</u></td><td><u>Reserved</u></td></tr></table>	<u>0000 0000</u>	<u>Reserved for no indication</u>	<u>0000 0001</u>	<u>Selected Carrier identification pre-subscribed and no input by calling party</u>	<u>0000 0010</u>	<u>Reserved for selected Carrier identification pre-subscribed and input by calling party</u>	<u>0000 0011</u>	<u>Reserved for selected Carrier identification pre-subscribed and input by calling party undetermined</u>	<u>0000 0100</u>	<u>Reserved for selected Carrier identification not pre-subscribed, and input by calling party</u>	<u>0000 0101</u>	<u>Carrier selected by input of calling party</u>	<u>0000 0110</u>	<u>Carrier selected by a network operator</u>	<u>0000 0111</u>	<u>}</u>	<u>to</u>	<u>}</u> <u>reserved</u>	<u>0000 1000</u>	<u>}</u>	<u>0000 1001</u>	<u>}</u>	<u>to</u>	<u>}</u> <u>spare</u>	<u>1111 1110</u>	<u>}</u>	<u>1111 1111</u>	<u>Reserved</u>																																																														
<u>0000 0000</u>	<u>Reserved for no indication</u>																																																																																											
<u>0000 0001</u>	<u>Selected Carrier identification pre-subscribed and no input by calling party</u>																																																																																											
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<u>0000 0111</u>	<u>}</u>																																																																																											
<u>to</u>	<u>}</u> <u>reserved</u>																																																																																											
<u>0000 1000</u>	<u>}</u>																																																																																											
<u>0000 1001</u>	<u>}</u>																																																																																											
<u>to</u>	<u>}</u> <u>spare</u>																																																																																											
<u>1111 1110</u>	<u>}</u>																																																																																											
<u>1111 1111</u>	<u>Reserved</u>																																																																																											
3.yy	<u>Global Call Reference</u>	E: Add the following new subclause <table><tr><td></td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr><tr><td>1</td><td colspan="8">Network ID Length indicator</td></tr><tr><td>1a</td><td colspan="8">Network ID</td></tr><tr><td>1n</td><td colspan="8"></td></tr><tr><td>2</td><td colspan="8">Node ID Length indicator</td></tr><tr><td>2a</td><td colspan="7">Node ID</td><td>lsb</td></tr><tr><td>2n</td><td>msb</td><td colspan="7"></td></tr><tr><td>3</td><td colspan="8">Call Reference length</td></tr><tr><td>3a</td><td colspan="7">Call Reference ID</td><td>lsb</td></tr><tr><td>3n</td><td>msb</td><td colspan="7"></td></tr></table> <u>Figure YY/Global Call Reference</u> <u>The following codes are used in the subfields of the network identity parameter field:</u> <u>1) Network ID</u> The Network ID contains the value field (coded according to ASN.1 BER) of an object identifier identifying the network. This means that the tag and length fields are omitted. An example of such an object identifier can be the following:		8	7	6	5	4	3	2	1	1	Network ID Length indicator								1a	Network ID								1n									2	Node ID Length indicator								2a	Node ID							lsb	2n	msb								3	Call Reference length								3a	Call Reference ID							lsb	3n	msb							
	8	7	6	5	4	3	2	1																																																																																				
1	Network ID Length indicator																																																																																											
1a	Network ID																																																																																											
1n																																																																																												
2	Node ID Length indicator																																																																																											
2a	Node ID							lsb																																																																																				
2n	msb																																																																																											
3	Call Reference length																																																																																											
3a	Call Reference ID							lsb																																																																																				
3n	msb																																																																																											

Q.763 Paragraph	Title	Comment																												
		-- {itu-t (0) administration (2) national regulatory authority (x) network (y)} -- The value for x is the value of the national regulatory authority (one of the Data -- Country Codes associated to the country as specified in ITU-T Recommendation X.121 shall be used for "national regulatory authority") The value for y is under the control of the national regulatory authority concerned. 2) <u>Node ID</u> A binary number that uniquely identifies within the network the node which generates the call reference. 3) <u>Call Reference ID</u> <u>A binary number used for the call reference of the call. This is generated by the node for each call.</u>																												
Table 21	Address complete	E: Modify table 21/Q.763 as shown in table 5. Table 5 Message type: Address complete <table><tr><th>Parameter</th><th>Reference (subclause)</th><th>Type</th><th>Length (octets)</th></tr><tr><td>:</td><td>:</td><td>:</td><td>:</td></tr><tr><td>HTR information (not required)</td><td>3.89</td><td>O</td><td>4-?</td></tr><tr><td>:</td><td>:</td><td>:</td><td>:</td></tr><tr><td>Pivot routing backward information (not required)</td><td>3.95</td><td>O</td><td>3-?</td></tr><tr><td>IN Service Compatibility</td><td>3.xx</td><td>O</td><td>3-?</td></tr><tr><td>:</td><td>:</td><td>:</td><td>:</td></tr></table> UK: NOTE the ETSI modification to the note below the table is not required as it is included in the base ITU reference [109] by amendment 1. The following parameters are not required: - Echo control information Add the following parameters: - Called Subscriber's Basic Service Marks	Parameter	Reference (subclause)	Type	Length (octets)	:	:	:	:	HTR information (not required)	3.89	O	4-?	:	:	:	:	Pivot routing backward information (not required)	3.95	O	3-?	IN Service Compatibility	3.xx	O	3-?	:	:	:	:
Parameter	Reference (subclause)	Type	Length (octets)																											
:	:	:	:																											
HTR information (not required)	3.89	O	4-?																											
:	:	:	:																											
Pivot routing backward information (not required)	3.95	O	3-?																											
IN Service Compatibility	3.xx	O	3-?																											
:	:	:	:																											
Table 22	Answer	E: Modify table 22/Q.763 as shown in table 6. Table 6 Message type: Answer <table><tr><th>Parameter</th><th>Reference (subclause)</th><th>Type</th><th>Length (octets)</th></tr><tr><td>:</td><td>:</td><td>:</td><td>:</td></tr><tr><td>Pivot routing backward information (not required)</td><td>3.95</td><td>O</td><td>3-?</td></tr><tr><td>IN Service Compatibility</td><td>3.xx</td><td>O</td><td>3-?</td></tr><tr><td>:</td><td>:</td><td>:</td><td>:</td></tr></table> UK: NOTE the ETSI modification to the note below the table is not required as it is included in the base ITU reference [109] by amendment 1. The following parameters are not required:- - Echo control information - Redirection number - Call History Information Add the following parameters:- - Called Subscriber's Basic Service Marks	Parameter	Reference (subclause)	Type	Length (octets)	:	:	:	:	Pivot routing backward information (not required)	3.95	O	3-?	IN Service Compatibility	3.xx	O	3-?	:	:	:	:								
Parameter	Reference (subclause)	Type	Length (octets)																											
:	:	:	:																											
Pivot routing backward information (not required)	3.95	O	3-?																											
IN Service Compatibility	3.xx	O	3-?																											
:	:	:	:																											

Q.763 Paragraph	Title	Comment																												
Table 23	Call Progress	E: Modify table 23/Q.763 as shown in table 7. Table 7 Message type: Call progress <table><tr><th>Parameter</th><th>Reference (subclause)</th><th>Type</th><th>Length (octets)</th></tr><tr><td>⋮</td><td>⋮</td><td>⋮</td><td>⋮</td></tr><tr><td>Pivot routing backward information (not required)</td><td>3.95</td><td>O</td><td>3-?</td></tr><tr><td>IN Service Compatibility</td><td>3.xx</td><td>O</td><td>3-?</td></tr><tr><td>⋮</td><td>⋮</td><td>⋮</td><td>⋮</td></tr></table> UK: NOTE the ETSI modification to the note below the table is not required as it is included in the base ITU reference [109] by amendment 1. The following parameters are not required:- - Echo control information - Call History Information Add the following parameters: - Called Subscriber's Basic Service Marks	Parameter	Reference (subclause)	Type	Length (octets)	⋮	⋮	⋮	⋮	Pivot routing backward information (not required)	3.95	O	3-?	IN Service Compatibility	3.xx	O	3-?	⋮	⋮	⋮	⋮								
Parameter	Reference (subclause)	Type	Length (octets)																											
⋮	⋮	⋮	⋮																											
Pivot routing backward information (not required)	3.95	O	3-?																											
IN Service Compatibility	3.xx	O	3-?																											
⋮	⋮	⋮	⋮																											
Table 27	Connect	E: Modify table 27/Q.763 as shown in table 8. Table 8 Message type: Connect <table><tr><th>Parameter</th><th>Reference (subclause)</th><th>Type</th><th>Length (octets)</th></tr><tr><td>⋮</td><td>⋮</td><td>⋮</td><td>⋮</td></tr><tr><td>HTR information (not required)</td><td>3.89</td><td>O</td><td>4-?</td></tr><tr><td>⋮</td><td>⋮</td><td>⋮</td><td>⋮</td></tr><tr><td>Pivot routing backward information (not require)</td><td>3.95</td><td>O</td><td>3-?</td></tr><tr><td>IN Service Compatibility</td><td>3.xx</td><td>O</td><td>3-?</td></tr><tr><td>⋮</td><td>⋮</td><td>⋮</td><td>⋮</td></tr></table> UK: NOTE the ETSI modification to the note below the table is not required as it is included in the base ITU reference [109] by amendment 1. The following parameters are not required:- - Echo control information - Call History Information Add the following parameters: - Called Subscriber's Basic Service Marks	Parameter	Reference (subclause)	Type	Length (octets)	⋮	⋮	⋮	⋮	HTR information (not required)	3.89	O	4-?	⋮	⋮	⋮	⋮	Pivot routing backward information (not require)	3.95	O	3-?	IN Service Compatibility	3.xx	O	3-?	⋮	⋮	⋮	⋮
Parameter	Reference (subclause)	Type	Length (octets)																											
⋮	⋮	⋮	⋮																											
HTR information (not required)	3.89	O	4-?																											
⋮	⋮	⋮	⋮																											
Pivot routing backward information (not require)	3.95	O	3-?																											
IN Service Compatibility	3.xx	O	3-?																											
⋮	⋮	⋮	⋮																											
Table 28	Continuity	UK: Shall not be sent.																												
Table 30	Information	UK: Delete"(national use)" from message The following parameters are not required:- - Connection request - Calling Party's category - Calling Party number Add the following parameters: - National Information Indicators - Calling Subscriber's Basic Service Marks - Called Subscriber's Basic Service Marks - Calling Subscriber's Originating Facility Marks - Called Subscriber's Terminating Facility Marks - Generic Number (with number qualifier set as 'intercepted line identity')																												

Q.763 Paragraph	Title	Comment																																																																
Table 31	Information request	UK: Delete“(national use)” from message The following parameters are not required:- - Call reference Add the following parameters: - National Information Request Indicators																																																																
Table 32	Initial address	E: Modify table 32/Q.763 as shown in table 9. Table 9 Message type: Initial address <table><thead><tr><th>Parameter</th><th>Reference (subclause)</th><th>Type</th><th>Length (octets)</th></tr></thead><tbody><tr><td>⋮</td><td>⋮</td><td>⋮</td><td>⋮</td></tr><tr><td>Circuit assignment map</td><td>3.69</td><td>Θ</td><td>6-7</td></tr><tr><td>⋮</td><td>⋮</td><td>⋮</td><td>⋮</td></tr><tr><td>Connection request (not required)</td><td>3.17</td><td>O</td><td>7-9</td></tr><tr><td>⋮</td><td>⋮</td><td>⋮</td><td>⋮</td></tr><tr><td>MLPP precedence (not required)</td><td>3.34</td><td>O</td><td>8</td></tr><tr><td>⋮</td><td>⋮</td><td>⋮</td><td>⋮</td></tr><tr><td>Pivot capability (not required)</td><td>3.84</td><td>O</td><td>3</td></tr><tr><td>⋮</td><td>⋮</td><td>⋮</td><td>⋮</td></tr><tr><td>Pivot counter (not required)</td><td>3.93</td><td>O</td><td>3</td></tr><tr><td>Pivot routing forward information (not required)</td><td>3.94</td><td>O</td><td>3 - ?</td></tr><tr><td>IN Service Compatibility</td><td>3.xx</td><td>O</td><td>3-?</td></tr><tr><td>Carrier selection information</td><td>3.yx</td><td>O</td><td>3</td></tr><tr><td>Global Call Reference</td><td>3.zx</td><td>O</td><td>6-?</td></tr><tr><td>⋮</td><td>⋮</td><td>⋮</td><td>⋮</td></tr></tbody></table> UK: NOTE the ETSI modification to the note below the table is not required as it is included in the base ITU reference [109] by amendment 1. The following parameters are not required:- - Collect call request - Origination ISC point code - Echo Control Information - Propagation Delay Counter Add the following parameters - National forward call indicators - Presentation number - Last diverting line identity - Partial Calling line identity - National forward call indicators (Link by link) (Intra - network use only)	Parameter	Reference (subclause)	Type	Length (octets)	⋮	⋮	⋮	⋮	Circuit assignment map	3.69	Θ	6-7	⋮	⋮	⋮	⋮	Connection request (not required)	3.17	O	7-9	⋮	⋮	⋮	⋮	MLPP precedence (not required)	3.34	O	8	⋮	⋮	⋮	⋮	Pivot capability (not required)	3.84	O	3	⋮	⋮	⋮	⋮	Pivot counter (not required)	3.93	O	3	Pivot routing forward information (not required)	3.94	O	3 - ?	IN Service Compatibility	3.xx	O	3-?	Carrier selection information	3.yx	O	3	Global Call Reference	3.zx	O	6-?	⋮	⋮	⋮	⋮
Parameter	Reference (subclause)	Type	Length (octets)																																																															
⋮	⋮	⋮	⋮																																																															
Circuit assignment map	3.69	Θ	6-7																																																															
⋮	⋮	⋮	⋮																																																															
Connection request (not required)	3.17	O	7-9																																																															
⋮	⋮	⋮	⋮																																																															
MLPP precedence (not required)	3.34	O	8																																																															
⋮	⋮	⋮	⋮																																																															
Pivot capability (not required)	3.84	O	3																																																															
⋮	⋮	⋮	⋮																																																															
Pivot counter (not required)	3.93	O	3																																																															
Pivot routing forward information (not required)	3.94	O	3 - ?																																																															
IN Service Compatibility	3.xx	O	3-?																																																															
Carrier selection information	3.yx	O	3																																																															
Global Call Reference	3.zx	O	6-?																																																															
⋮	⋮	⋮	⋮																																																															
Table 33	Release	E: Modify table 33/Q.763 as shown in table 10. Table 10 Message type: Release <table><thead><tr><th>Parameter</th><th>Reference (subclause)</th><th>Type</th><th>Length (octets)</th></tr></thead><tbody><tr><td>⋮</td><td>⋮</td><td>⋮</td><td>⋮</td></tr><tr><td>HTR information (not required)</td><td>3.89</td><td>O</td><td>4-?</td></tr><tr><td>⋮</td><td>⋮</td><td>⋮</td><td>⋮</td></tr></tbody></table>	Parameter	Reference (subclause)	Type	Length (octets)	⋮	⋮	⋮	⋮	HTR information (not required)	3.89	O	4-?	⋮	⋮	⋮	⋮																																																
Parameter	Reference (subclause)	Type	Length (octets)																																																															
⋮	⋮	⋮	⋮																																																															
HTR information (not required)	3.89	O	4-?																																																															
⋮	⋮	⋮	⋮																																																															
Table 37	Forward transfer	UK: Message type not required																																																																

Q.763 Paragraph	Title	Comment																																
Table 39	Blocking Blocking ack Continuity check request Loop back ack (national use) Overload (national use) Reset circuit Unblocking Unblocking ack Unequipped cct id (national use)	UK: The following messages types are not required:- - Continuity check request																																
Table 42	Facility accepted Facility request	UK: The following parameter is not required:- - Connection request																																
Table 45	Facility	E: Modify table 45/Q.763 as shown in table 11 Table 11 Message type: Facility<table><tr><th>Parameter</th><th>Reference (subclause)</th><th>Type</th><th>Length (octets)</th></tr><tr><td>⋮</td><td>⋮</td><td>⋮</td><td>⋮</td></tr><tr><td>Pivot routeing Indicators (<u>not required</u>)</td><td>3.85</td><td>O</td><td>3</td></tr><tr><td>⋮</td><td>⋮</td><td>⋮</td><td>⋮</td></tr><tr><td>Pivot counter (<u>not required</u>)</td><td>3.93</td><td>O</td><td>3</td></tr><tr><td>⋮</td><td>⋮</td><td>⋮</td><td>⋮</td></tr><tr><td>Pivot routeing backward information (<u>not required</u>)</td><td>3.95</td><td>O</td><td>3-?</td></tr><tr><td><u>IN Service Compatibility</u></td><td><u>3.xx</u></td><td><u>O</u></td><td><u>3-?</u></td></tr></table>	Parameter	Reference (subclause)	Type	Length (octets)	⋮	⋮	⋮	⋮	Pivot routeing Indicators (<u>not required</u>)	3.85	O	3	⋮	⋮	⋮	⋮	Pivot counter (<u>not required</u>)	3.93	O	3	⋮	⋮	⋮	⋮	Pivot routeing backward information (<u>not required</u>)	3.95	O	3-?	<u>IN Service Compatibility</u>	<u>3.xx</u>	<u>O</u>	<u>3-?</u>
Parameter	Reference (subclause)	Type	Length (octets)																															
⋮	⋮	⋮	⋮																															
Pivot routeing Indicators (<u>not required</u>)	3.85	O	3																															
⋮	⋮	⋮	⋮																															
Pivot counter (<u>not required</u>)	3.93	O	3																															
⋮	⋮	⋮	⋮																															
Pivot routeing backward information (<u>not required</u>)	3.95	O	3-?																															
<u>IN Service Compatibility</u>	<u>3.xx</u>	<u>O</u>	<u>3-?</u>																															
Table 46	Network resource management	UK: Message type not required																																
Table 51	Application transport	UK: NOTE the ETSI modification to the note below the table is not required as it is included in the base ITU reference [109] by amendment 1.																																
Table 52	Pre-Release information	UK: NOTE the ETSI modification to the note below the table is not required as it is included in the base ITU reference [109] by amendment 1.																																
Annex A	Tables for handling of unrecognized parameter values	E: Annex A has the status of a normative annex																																
Annex B	General description of component encoding rules	E: Annex B has the status of an informative annex for national use.																																

3.2 Additions

3.2.1 National Forward Call Indicators

The format of the National Forward Call Indicators parameter field is shown in Figure 3.1.

	8	7	6	5	4	3	2	1
1	H	G	F	E	D	C	B	A
2	P	O	N	M	L	K	J	I

FIGURE 3.1 - National Forward Call Indicators parameter field

The following codes are used in the National Forward Call Indicators parameter field:

bit	A:	CLI Blocking Indicator (CBI)
	0	Network Number may not be disclosed to the called user
	1	Network Number may (subject to interaction with CLIR) be disclosed to the called user
bit	B:	Network translated address indicator
	0	no information
	1	network translation of the called address has occurred
bit	C:	Priority access indicator (IUP)
	0	no information
	1	priority access call in IUP
bit	D:	Protection indicator (IUP)
	0	no information
	1	protected call in IUP
bits	E-P	reserved

3.2.2 National Forward Call Indicators (Link by link)

NOTE: For intra-network use only

The format of the national forward call indicators (Link by link) parameter field is shown in Figure 3.2.

	8	7	6	5	4	3	2	1
1	Ext	reserved			RCI			
2	Ext	reserved			ISI			

FIGURE 3.2 - National Forward Call Indicators (Link by link) parameter field

The following codes are used in the National Forward Call Indicators (Link by link) parameter field:

a) RCI – Routing Control Indicator

0000	Alternative routing allowed, continuous retry allowed (default)
0001	Alternative routing barred, continuous retry allowed
0010	Alternative routing allowed, continuous retry barred
0011	Alternative routing barred, continuous retry barred
0100	Alternative routing only allowed once, continuous retry allowed
0101	Alternative routing only allowed once, continuous retry barred
0110	
to	reserved, interpret as default (0000)
1111	

b) Ext – Extension

0	Information continues through the next octet
1	last octet

c) ISI – Interconnect Specific Information

0000	No Indication (default)
0001	
to	reserved (set by bilateral agreement), else interpret as default (000)
1111	

d) Ext – Extension

1	Last octet
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The following codes are used in the parameter compatibility information parameter for this UK specific parameter:

a) Nth upgraded parameter

11110100	National Forward Call Indicators (Link by link)
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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	G-F:	Pass on not possible indicator
	10	discard parameter
c)	Extension indicator	
	1	last octet