

PNO-ISC Specification Number 007 ISDN user part (ISUP)

ICS 33.080

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Foreword

This Published Document has been prepared by Technical Committee TCT/50. It specifies the ISUP protocol required for the national interface between public network operators 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 future PD publications:

- PD 6624: PNO-ISC/SER/002;
- PD 6625: PNO-ISO/SER/001 Issue 1;
- PD 6626: PNO-ISC/SER/003 Issue 1;
- PD 6627: PNO-ISO/INFO/007;
- PD 6628: PNO-IG High Level Service Description for Number Portability (Interim Solution);
- PD 6629: PNO-ISO/INFO/003.

This Published Document is not to be regarded as a British Standard.

Summary of pages

This document comprises a front cover, an inside front cover, pages 1 to 88 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

This Published Document, having been prepared under the direction of the DISC Board, was published under the authority of the Standards Board and comes into effect on 15 June 1998

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The following BSI references relate to the work on this standard:
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Amendments issued since publication

Amd. No.	Date	Comments

**PNO-ISC SPECIFICATION NUMBER 007
ISDN USER PART (ISUP)**

0.0.2 Normative Information

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0.0.4 History

Revision	Date of Issue	Updated By	Description
Issue 2, draft G	February 1997	PNO-ISC Editors	Merging of sections as a single document.
Issue 2, draft H	March 1997	PNO-ISC Editors	Replaced Section 8, added section 10
Issue 2, draft I	March 1997	PNO-ISC Editors	Result of antepenultimate editing meeting
Issue 2, draft J	March 1997	PNO-ISC Editors	Result of penultimate editing
Issue 2, draft K	March 1997	PNO-ISC Editors	Result of final emergency last-minute editing.
Issue 2, draft L	April 1997	PNO-ISC Editors	Result of final tidy-up
Issue 2, draft M	May 1997	PNO-ISC Editors	Review of Section 8, general tidy-up
Issue 2, draft N	June 1997	PNO-ISC Editors	Result of editing meeting on CLI, CCBS and service/facility marks
Issue 2 draft O	June 1997	PNO-ISC Editors	Results of final editing prior to PNO-IG meeting
Issue 2 draft P	June 1997	PNO-ISC Editors	Alignment of basic service marks coding with PNO-ISC/SPEC/006
Issue 2	October 1997	PNO-ISC Editors	Approved by PNO-IG. Includes changes highlighted in Errata 1 Issue 1 Draft C.
Issue 2.1 draft A	March 1998	PNO-ISC Editors	Amended as per agreed proposals in PNO-ISC/ISUP/CP(98)22, 23, 29, 20 & 32
Issue 2.1 draft B	April 1998	PNO-ISC Editors	Amended as per GPT comments
Issue 2.1	April 1998	PNO-ISC Editors	Approved by PNO-IG

0.0.5 Issue Control

SECTION	ISSUE	DATE
All	Issue 2.1	April 1998

0.0.6 References

- [1] DEN/SPS-01039-1 (03/97) — ETSI ISUP v 3 — Basic Services
- [2] DEN/SPS-01039-2 (03/97) — ETSI ISUP v 3 — ISDN supplementary services
- [3] DEN/SPS-01039-3 (0x/97) — ETSI ISUP v 3 — Calling Line Identification Presentation (CLIP) supplementary service
- [4] DEN/SPS-01039-4 (0x/97) — ETSI ISUP v 3 — Calling Line Identification Restriction (CLIR) supplementary service
- [5] DEN/SPS-01039-5 (0x/97) — ETSI ISUP v 3 — Connected Line Identification Presentation (COLP) supplementary service
- [6] DEN/SPS-01039-6 (0x/97) — ETSI ISUP v 3 — Connected Line Identification Restriction (COLR) supplementary service
- [7] DEN/SPS-01039-7 (0x/97) — ETSI ISUP v 3 — Terminal Portability (TP) supplementary service
- [8] DEN/SPS-01039-8 (0x/97) — ETSI ISUP v 3 — User-to-User Signalling (UUS) supplementary service
- [9] DEN/SPS-01039-9 (0x/97) — ETSI ISUP v 3 — Closed User Group (CUG) supplementary service
- [10] DEN/SPS-01039-10 (0x/97) — ETSI ISUP v 3 — Subaddressing (SUB) supplementary service
- [11] DEN/SPS-01039-11 (0x/97) — ETSI ISUP v 3 — Malicious Call Identification (MCID) supplementary service
- [12] DEN/SPS-01039-12 (0x/97) — ETSI ISUP v 3 — Conference call, add-on (CONF) supplementary service
- [14] DEN/SPS-01039-14 (0x/97) — ETSI ISUP v 3 — Explicit Call Transfer (ECT) supplementary service

- [15] DEN/SPS-01039-15 (0x/97) — ETSI ISUP v 3 — Diversion supplementary services
- [16] DEN/SPS-01039-16 (0x/97) — ETSI ISUP v 3 — Call Hold (HOLD) supplementary service
- [17] DEN/SPS-01039-17 (0x/97) — ETSI ISUP v 3 — Call Waiting (CW) supplementary service
- [18] DEN/SPS-01039-18 (0x/97) — ETSI ISUP v 3 — Completion of Calls to Busy Subscriber (CCBS) supplementary service
- [19] DEN/SPS-01039-19 (0x/97) — ETSI ISUP v 3 — Three party (3PTY) supplementary service
- [20] ETS 300 199 (12/94) — Call Forwarding Busy (CFB) supplementary service Service description
- [21] ETS 300 200 (12/94) — Call Forwarding Unconditional (CFU) supplementary service Service description
- [22] ETS 300 201 (12/94) — Call Forwarding No Reply (CFNR) supplementary service; Service description
- [23] ETS 300 202 (12/94) — Call Deflection (CD) supplementary service; Service description
- [24] ETS 300 203 (12/94) — Call Forwarding Busy (CFB) supplementary service Functional capabilities and information flows
- [25] ETS 300 204 (12/94) — Call Forwarding Unconditional (CFU) supplementary service Functional capabilities and information flows
- [26] ETS 300 205 (12/94) — Call Forwarding No Reply (CFNR) supplementary service Functional capabilities and information flows
- [27] ETS 300 206 (12/94) — Call Deflection (CD) supplementary service Functional capabilities and information flows
- [28] ETS 300 050 (10/91) — Multiple Subscriber Number (MSN) supplementary service Service Description
- [29] ETS 300 051 (10/91) — Multiple Subscriber Number (MSN) supplementary service Functional capabilities and information flows
- [30] ETS 300 053 (10/91) — Terminal Portability (TP) supplementary service Service Description
- [31] ETS 300 054 (10/91) — Terminal Portability (TP) supplementary service Functional capabilities and information flows
- [32] ETS 300 056 (04/96) — Call Waiting (CW) supplementary service Service Description
- [33] ETS 300 057 (05/92) — Call Waiting (CW) supplementary service Functional capabilities and information flows
- [34] ETS 300 059 (10/91) — Subaddressing (SUB) supplementary service Service Description
- [35] ETS 300 060 (10/91) — Subaddressing (SUB) supplementary service Functional capabilities and information flows
- [36] ETS 300 062 (10/91) — Direct Dialling In (DDI) supplementary service Service Description
- [37] ETS 300 063 (10/91) — Direct Dialling In (DDI) supplementary service Functional capabilities and information flows
- [38] ETS 300 089 (01/92) — Calling Line Identification Presentation (CLIP) supplementary service Service description
- [39] ETS 300 090 (01/92) — Calling Line Identification Restriction (CLIR) supplementary service Service description
- [40] ETS 300 091 (03/92) — Calling Line Identification Presentation (CLIP) and Calling Line Identification Restriction (CLIR) supplementary services Functional capabilities and information flows
- [41] ETS 300 094 (01/92) — Connected Line Identification Presentation (COLP) supplementary service Service description
- [42] ETS 300 095 (01/92) — Connected Line Identification Restriction (COLR) supplementary service Service description
- [43] ETS 300 096 (05/92) — Connected Line Identification Presentation (COLP) and Connected Line Identification Restriction (COLR) supplementary services Functional capabilities and information flows
- [44] ETS 300 128 (03/92) — Malicious Call Identification (MCID) supplementary service Service Description

- [45] ETS 300 129 (03/92) — Malicious Call Identification (MCID) supplementary service Functional capabilities and information flows
- [46] ETS 300 139 (03/92) — Call Hold (HOLD) supplementary service Service Description
- [47] ETS 300 140 (05/92) — Call Hold (HOLD) supplementary service Functional capabilities and information flows
- [48] ETS 300 186 (07/93) — Three-party (3PTY) supplementary service Service Description
- [49] ETS 300 187 (04/94) — Three-party (3PTY) supplementary service Functional capabilities and information flows
- [50] ETS 300 284 (03/96) — User-to-user signalling (UUS) supplementary service Service Description
- [51] ETS 300 285 — User-to-user signalling (UUS) supplementary service Functional capabilities and information flows
- [52] ETS 300 357 (10/95) — Completion of Call to Busy Subscriber (CCBS) supplementary service Service Description
- [53] ETS 300 358 (09/95) — Completion of Call to Busy Subscriber (CCBS) supplementary service Functional capabilities and information flows
- [54] ETS 300 367 (03/95) — Explicit Call Transfer (ECT) supplementary service Service Description
- [55] ETS 300 368 (05/95) — Explicit Call Transfer (ECT) supplementary service Functional capabilities and information flows
- [56] ETS 300 183 (10/92) — Conference, add-on (CONF) supplementary service Service Description
- [57] ETS 300 184 (09/93) — Conference, add-on (CONF) supplementary service Functional capabilities and information flows
- [58] ETS 300 136 (03/92) — Closed User Group (CUG) supplementary service Service Description
- [59] ETS 300 137 (05/92) — Closed User Group (CUG) supplementary service Functional capabilities and information flows
- [60] ITU-T Recommendations Q.761 – 764 (1997 edition) ISUP '97 basic call
- [61] ITU-T Recommendation Q.730 (1997 edition) ISUP supplementary services
- [62] PNO-ISC/SPEC/006 C7 interconnect user part (IUP)
- [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 (1993 edition) Stage 3 description for call offering supplementary services using Signalling System No. 7
- [66] ITU-T Recommendation Q.737 (1997 edition) Additional information transfer supplementary services
- [67] Licence 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 5 and 6 (1993 edition) Stage 3 description for number identification supplementary services using Signalling System No. 7
- [69] Code of practice for network operators in relation to calling line identification display services and other related services, December 1996
- [70] PNO-ISC/SER/002 Calling number display supplementary service
- [71] PNO-ISC/SER/001 Issue 1, UK CCBS Service Description
- [72] PNO-ISC/SPEC/003 Issue 1, UK SCCP
- [73] PNO-ISC/INFO/007 UK Interconnect use of SCCP
- [74] ETS 300–369.1 DSS1 stage 3 access signalling requirements for ECT supplementary service
- [75] PNO-IG High Level Service Description For Number Portability (Interim Solution)
- [76] ITU-T Recommendation Q.731 Clauses 3 and 4 (1993 edition) Stage 3 description for number identification supplementary services using Signalling System No. 7
- [77] PNO-ISC/INFO/003 Use of spare and reserved fields
- [78] ITU-T Recommendation I.130 (1988 edition) Method for characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN

- [79] ITU-T Recommendation Q.731.1 (1993 edition) Stage 3 description for number identification supplementary services using Signalling System No. 7
- [80] COM 11-R 173 (April 1995) — Report on the meeting held in Miyazaki — Japan, from 29 January to 16 February 1996 — Part II.27 — Draft new ITU-T recommendation Q.733.3 — Stage 3 description from call completion supplementary services using signalling system number 7, Clause 3 completion of calls to busy subscriber (CCBS) for resolution 1, §8 approval in first quarter of 1997
- [81] ETS 300 356-19 (02/95) — ETSI ISUP v 2 — Completion of Calls to Busy Subscriber (CCBS) supplementary service
- [82] COM 11-R 14 (February 1997) — Report of the meeting held in Geneva from 13–31 January 1997: Part II corrigendum to COM 11-R 173: draft new ITU-T recommendation Q.733.3 for (Helsinki, 1993) resolution 1, §8, Items 4 – 5 (consultation)
- [83] PNO-ISC/SPEC/005 issue 1, Message Transfer Part (MTP)

0.0.7 Glossary of terms

0.0.7.1 Abbreviations

3Pty	Three party
AD&C	Advise duration and charge (indicator)
ACM	Address complete message
ANM	Answer message
APM	Application transport mechanism
C7	Signalling system number 7
CBI	CLI blocking indicator
CCBS	Completion of calls to busy subscriber
CCNR	Completion of calls on no reply
CCSS	Completion of call supplementary services
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
CLIR	Calling line identity restriction
CNA	Connection not admitted (message)
CNI	Changed number interception
COL	Connected line identity
COLP	Connected line identity presentation
COLR	Connected line identity restriction
CONF	Conference call, add-on
CPG	Call progress (message)
CUG	Closed user group
CW	Call waiting
DCS1800	Digital communication system at 1 800 MHz
DDI	Direct dialing in
DLE	Destination local exchange
DPNSS	Digital private network signalling system
ECT	Explicit call transfer
ETSI	European telecommunications standards institute
FDM	Frequency division multiplex
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
ISC	International switching centre
ISC	Interconnect standards committee
ISDN	Integrated services digital network
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
NN	Network number
NP	Network provided
NP	Number portability
NTP	Network termination point
OCB	Outgoing calls barred
OFTEL	Office of telecommunications
OLE	Originating local exchange
PBX	Private branch exchange
PCLI	Partial calling line identity
PN	Presentation number
PNO	Public network operator
PNO-IG	Public network operators' interest group
PNP	Presentation number preference (indicator)
POI	Point of interconnect
PRI	Pre-release information (message)
RCI	Routing control indicator
Rev	Reverse charge
SCCP	Signalling connection control part
SVI	Service interception
TAR	Temporary alternative routing
TCAP	Transaction capabilities application part
TOS	Temporary out of service
TP	Terminal portability
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)

a number that identifies the originating NTP of a call

NOTE 1 Calling line identity is a generic term that may refer to either the Network Number, or a Presentation Number. The CLI may be Network Provided or User Provided.

NOTE 2 CLI is not necessarily the identity of the actual line from which a call originated, but may be another number related to the identity of the calling line.

NOTE 3 The CLI is always qualified as available, unavailable or restricted/withheld.

calling line identity presentation (CLIP) service

a supplementary service whereby CLI may be provided for display to the called user

NOTE CLIP is not confined to ISDNs and ISDN terminals and includes the telephony calling number display (CND) service.

calling line identity restriction (CLIR) service

a supplementary service whereby a calling user may prevent display of his CLI to the called user

NOTE 1 CLI restriction may also referred to as CLI blocking or CLI withhold.

NOTE 2 CLIR is not confined to ISDNs and ISDN terminals and includes the telephony calling number restriction (CNR) service.

CLI available

a condition in which the CLI exists and can be passed to the called customer's NTP on the terminating network

CLI restricted/withheld

a condition in which the CLI is not for transmission to the called customer's NTP on the terminating network, because the calling customer is directly connected to a network that supports the CLIP service, and has exercised the CLIR option

CLI unavailable

a condition in which the CLI does not exist or the originating network does not support the CLIR service, or interworking has been encountered, and consequently the CLI cannot be passed

COL available

the COL exists and can be passed to the calling customer's NTP on the originating network

COL restricted

the COL is not for transmission to the calling customer's NTP 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 COLP service, or interworking has been encountered, and consequently the COL cannot be passed

connected line identity (COL)

a number that identifies the terminating NTP of a call

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 the ingress port to the public network, ie the network termination point (NTP)

NOTE 1 This number identifies the actual network termination from which the call originates, and 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) or user provided not verified (UPNV). However, the use of a UPNV-NN is not permitted.

NOTE 4 The use of one number to identify both ingress and egress points is permitted by this definition, but only where both points 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 network and which identifies a NTP

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.

network termination point (NTP)

the definition of Annex A.2 i) of [67] applies

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*.

ported number

a number which has been relocated to another network

presentation number (PN)

a number that identifies the network termination point (NTP) to which a return 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 network provided (NP), user provided verified and passed (UPVP) or user provided not verified (UPNV).

recipient network

the Network which has gained the ported number

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.

user provided, not verified (UPNV) number

a number that is supplied by a user which identifies a NTP 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, and which identifies a NTP

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) ISUP Working Party. This document specifies the ISUP protocol required for the national interface between public network operators in the UK.

This is the second issue of this specification and contains the functionality of the ITU-T ISUP '97 basic call [60] modified to ensure compatibility with Issue 1 of this specification, which was based on ETSI ISUP version 2 [1], and to include additional functionality which is required for the UK.

It is expected that ETSI ISUP v3 will be identical to ITU-T ISUP '97 with the addition of the CCNR supplementary service and mechanisms for VPN. Hence this edition of UK ISUP is compatible with ETSI ISUP v 3.

UK ISUP Issue 2 also contains a number of supplementary services.

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 assumed to be required with the exception of items in ITU-T recommendations marked as national use which are assumed to be 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 recommendations (as expected to be in the v3 EN).

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.

ISC rules in [77] apply for the allocation of spare and reserved parameter fields.

The procedures in ITU-T Recommendation Q.764 [60] 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 (1997) including relevant requirements of DEN/SPS-01039-1 [1].

Section 2 General functions of messages and signals

Exceptions to ITU-T recommendation Q.762 (1997) including relevant requirements of DEN/SPS-01039-1 [1].

Section 3 Formats and Codes

Exceptions to ITU-T recommendation Q.763 (1997) including relevant requirements of DEN/SPS-01039-1 [1].

Section 4 Signalling Procedures

Exceptions to ITU-T recommendation Q.764 (1997) including relevant requirements of DEN/SPS-01039-1 [1].

Section 5 ISDN Supplementary Services

Exceptions to ITU-T recommendation Q.730 (1997) including relevant requirements of DEN/SPS-01039-2 [2].

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 6 Spare

Section 7 Connected Line Identity Presentation/Restriction

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

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

Stage 3: Q.731.5 [68] as modified by ETS 300-356-5 [5] and Q.731.6 [68] as modified by DEN/SPS-01039-6 [6] (no UK exceptions)

Section 8 Calling Line Identity Presentation/Restriction and CND

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 [76] as modified by ETS 300-356-3 [3] and Q.731.4 [76] as modified by DEN/SPS-01039-4 [4]

Section 9 Spare

Section 10 Number Portability

Stage 1: High level service description for number portability (interim solution) [75]

Stage 2: High level service description for number portability (interim solution) [75]

Section 11 Completion of Calls to Busy Subscriber

Stage 1: ETS 300 357 [52] as modified by PNO-ISC/SER 002 [71]

Stage 2: ETS 300 358 [53] as modified by PNO-ISC/SER 002 [71]

Stage 3: exceptions to DEN/SPS-01039-18 [18]

Section 12 Spare

Section 13 Spare

Section 14 Malicious Call Identification (reserved)

(NOTE to be completed in a future issue)

Section 15 Call Forwarding, Unconditional

Stage 1: exceptions to ETS 300 200 [21]

Stage 2: exceptions to ETS 300 204 [25]

Stage 3: exceptions to Q.732.4 [65] as modified by DEN/SPS-01039-15 [15]

Section 16 Call Forwarding, No Reply

Stage 1: exceptions to ETS 300 201 [22]

Stage 2: exceptions to ETS 300 205 [26]

Stage 3: exceptions to Q.732.3 [65] as modified by DEN/SPS-01039-15 [15]

Section 17 Call Forwarding, Busy

Stage 1: exceptions to ETS 300 199 [20]

Stage 2: exceptions to ETS 300 203 [24]

Stage 3: exceptions to Q.732.2 [65] as modified by DEN/SPS-01039-15 [15]

Section 18 Call Forwarding, Not Reachable

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

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

Section 19 Explicit Call Transfer

Stage 1: ETS 300 367 (no exceptions) [54]

Stage 2: ETS 300 368 (no exceptions) [55]

Stage 3: exceptions to DEN/SPS-01039-14 [14]

Section 20 No Ring Call (reserved)

(NOTE to be completed in a future issue)

Section 21 VPN support — Q.SIG (reserved)

(NOTE to be completed in a future issue)

Section 22 VPN support — Other (DPNSS) (reserved)

(NOTE to be completed in a future issue)

Section 23 Operator Services (reserved)

(NOTE to be completed in a future issue)

Section 24 Application Transport Protocol (reserved)

(NOTE to be completed in a future issue)

0.3 Other supplementary services

The following supplementary services are also applicable to UK ISUP Issue 2, however, there are no UK specific requirements.

Call Deflection (CD)

Stage 1: ETS 300 202 [23]

Stage 2: ETS 300 206 [27]

Stage 3: DEN/SPS-01039-15 [15]

Three Party (3Pty)

Stage 1: ETS 300 186 [48]

Stage 2: ETS 300 187 [49]

Stage 3: DEN/SPS-01039-19 [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]

Stage 2: ETS 300 057 [33]

Stage 3: DEN/SPS-01039-17 [17]

Conference call, add-on (CONF)

Stage 1: ETS 300 183 [56]

Stage 2: ETS 300 184 [57]

Stage 3: DEN/SPS-01039-12 [12]

Closed User Group (CUG)

Stage 1: ETS 300 136 [58]

Stage 2: ETS 300 137 [59]

Stage 3: DEN/SPS-01039-9 [9]

Call Hold (HOLD)

Stage 1: ETS 300 139 [46]

Stage 2: ETS 300 140 [47]

Stage 3: DEN/SPS-01039-16 [16]

Malicious Call Identification (MCID)

Stage 1: ETS 300 128 [44]

Stage 2: ETS 300 129 [45]

Stage 3: DEN/SPS-01039-11 [11]

Terminal Portability (TP)

Stage 1: ETS 300 053 [30]

Stage 2: ETS 300 054 [31]

Stage 3: DEN/SPS-01039-7 [7]

Subaddressing (Sub)

Stage 1: ETS 300 059

Stage 2: ETS 300 060

Stage 3: DEN/SPS-01039-10 [10]

User-to-user signalling (UUS)

Stage 1: ETS 300 284 [50]

Stage 2: ETS 300 285 [51]

Stage 3: DEN/SPS-01039-8 [8]

END OF PNO-ISC/SPEC/007§0

1 Functional Description (Q.761)

1.1 Exceptions

Q.761 Paragraph	Title	Comments
3	Capabilities supported by the ISDN User Part	E: Replace Table 1/Q.761 with the first four columns of the Table 1.1 UK: Add UK column to Table 1/Q.761 (fifth column of Table 1.1), and UK features (Table 1.2)

Table 1.1 — Capabilities supported 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)	+	+	+	—
N × 64 kbit/s connections 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	+	+	+	+
User part availability control	+	+	+	+
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 ISUP and INAP	+	+	+	+
Unequipped circuit identification code	+	—	—	—

Table 1.1 — Capabilities supported by the ISDN User Part

ISDN user part availability control	+	+	+	+
MTP pause and resume	+	+	+	+
Overlength messages	+	+	+	+
Temporary alternative routing (TAR)	+	+	+	+
Hop counter procedure	+	+	+	+
Collect call request procedure	+	+	+	—
Pre-release information support	—	—	+	+
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	+	—	—	—
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	+	+	—	—
REV	+	—	—	—
Additional function/services				
APM	—	—	+	—
VPN	—	—	+	—
Key: + support — non-support				
NOTE Multirate connection types are 2 × 64, 384, 1 536 and 1 920 kbit/s.				

Table 1.2 — Capabilities supported by the UK ISDN User Part

Function/service	National use according to ITU-T	International use according to ITU-T	International use according to ETSI	UK
UK basic call features				
Service and Facility Marks				+
National forward call indicators				+
UK supplementary services				
Number portability (NP)				+
Call forward on subscriber not reachable (CFNRc)				+
Key: + support - non-support				

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.”.
2.34	release message	E: Insert the following after item 2.34: “ 2.34A pre-release information message (PRI): A message to be used with the Release message for the transport of information where sending of that information in the Release message itself would cause compatibility problems with earlier versions of ISUP.”
3.18	CCSS	E: Modify the subclause by: “ 3.18 CCSS: Information sent in an initial address message indicating that a call is a CCBS <u>or a CCNR</u> call as defined in the CCBS <u>or CCNR</u> supplementary service.”
4.16	CCSS call indicator	E: Modify the subclause by: “ 4.16 CCSS call indicator: Information sent in the forward direction, used in a CCBS <u>or CCNR</u> call set-up, to distinguish this call from an ordinary call, at the destination local exchange.”

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 sent in the backward or forward direction identifying the basic service marks associated with a customer.

2.2.2.6 Calling Subscribers Basic Service Marks

UK specific information sent in the forward direction identifying the basic service marks associated with a calling customer.

2.2.2.7 Calling Subscribers Originating Facility Marks

UK specific information sent in the forward direction identifying the facility marks associated with a customer.

2.2.2.8 Called Subscribers Terminating Facility Marks

UK specific information sent 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 in the forward direction 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 sent in the backward or forward direction to indicating whether or not the subscriber is temporary out of service.

2.2.3.10 ICB, Except for Operator, Indicator

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

2.2.3.11 Called Subscriber Facility Information Indicator

Information to indicate whether or not the called subscriber has facility information.

2.2.3.12 Calling Subscriber Facility Information Indicator

Information whether or not the calling subscriber has facility information.

2.2.3.13 Permanent Outgoing Calls Barred (OCB) Indicator

Information sent in the backward or forward direction to indicate whether or not the called or calling subscriber has outgoing calls barred.

2.2.3.14 Outgoing Local Calls Barred Indicator

Information sent in the backward or forward direction to indicate whether or not the called or calling subscriber has outgoing Local Calls barred.

2.2.3.15 Outgoing National Calls Barred Indicator

Information sent in the backward or forward direction to indicate Whether or not the called or calling subscriber has outgoing National Calls barred.

2.2.3.16 Outgoing International Calls Barred Indicator

Information sent in the backward or forward direction to indicate whether or not the called or calling subscriber has outgoing International Calls barred.

2.2.3.17 Operator Calls Barred Indicator

Information sent in the backward or forward direction to indicate whether or not the called or calling subscriber has Operator Calls barred.

2.2.3.18 Supplementary Facility Calls Barred Indicator

Information sent in the backward or forward direction to indicate 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 sent in the backward or forward direction to indicate whether or not the called or calling subscriber requires digit masking.

2.2.3.20 Calls to Premium-phones Barred Indicator

Information sent in the backward or forward direction to indicate 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 sent in the forward or the backward direction to indicate the called or calling customers tariff group.

2.2.3.22 Operator Indicator

Information sent in the forward or the backward direction to indicate whether an Operator has been involved in the establishment of the call.

2.2.3.23 Disabled Subscriber Indicator

Information sent in the forward direction indicating whether or not the customer is disabled.

2.2.3.24 Attendant Call Office Indicator

Information sent in the forward direction indicating whether or not the call is from an attendant call office.

2.2.3.25 Advise Duration and Charge (AD&C) Indicator

Information sent in the forward direction 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 sent in the backward direction 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 sent in the backward direction 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 routeing options

2.2.3.41 CLI Blocking Indicator

The CLI blocking Indicator (CBI) is information sent in the forward direction to indicate whether the calling party has control of the display of his/her CLI.

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.

END OF PNO-ISC/SPEC/007§2

3 Formats and Codes (Q.763)

3.1 Exceptions

Q.763 Paragraph	Title	Comment
1	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	UK: The following items are not required:- — b) 8 448 kbit/s digital path — c) Frequency division multiplex (FDM) systems in networks using the 2 048 kbit/s pulse code modulation standard — d) Multirate — e) $N \times 64$ Kbit/s — 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 0001 – 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
Figure 3	General format overview	E: Add an octet “Length indicator of parameter Z” between the octets “Parameter number = Z” and “parameter Z”
2.1 Table 4	Message type codes	E: Add the following message type:- — Pre-Release information, reference Table 32A, code to be allocated UK: Delete (national use) for the:- — Information — Information request messages The following message types are not required:- — Forward transfer — Continuity — Continuity check request — Network resource management Modify ETSI amendment to Pre-release information as follows:- “— Pre-Release information, reference Table 32A, ~~code to be allocated~~ 0100 0010”

Q.763 Paragraph	Title	Comment																														
3.1 Table 5	Parameter names	E: The following parameters are not required: — Backward GVNS — Forward GVNS — Connection request — MLPP precedence 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>11111110</td></tr><tr><td>Presentation Number</td><td>11111101</td></tr><tr><td>Last Diverting Line Identity</td><td>11111100</td></tr><tr><td>Partial CLI</td><td>11111011</td></tr><tr><td>Called Subscribers Basic Service marks</td><td>11111010</td></tr><tr><td>Calling Subscribers Basic Service marks</td><td>11111001</td></tr><tr><td>Calling Subscribers Originating Facility Marks</td><td>11111000</td></tr><tr><td>Called Subscribers Terminating Facility Marks</td><td>11110111</td></tr><tr><td>National Information Request Indicators</td><td>11110110</td></tr><tr><td>National Information Indicators</td><td>11110101</td></tr><tr><td>National Forward Call Indicators (Link by link)</td><td>11110100</td></tr></table>	Parameter name	Code	National Forward Call Indicators	11111110	Presentation Number	11111101	Last Diverting Line Identity	11111100	Partial CLI	11111011	Called Subscribers Basic Service marks	11111010	Calling Subscribers Basic Service marks	11111001	Calling Subscribers Originating Facility Marks	11111000	Called Subscribers Terminating Facility Marks	11110111	National Information Request Indicators	11110110	National Information Indicators	11110101	National Forward Call Indicators (Link by link)	11110100						
Parameter name	Code																															
National Forward Call Indicators	11111110																															
Presentation Number	11111101																															
Last Diverting Line Identity	11111100																															
Partial CLI	11111011																															
Called Subscribers Basic Service marks	11111010																															
Calling Subscribers Basic Service marks	11111001																															
Calling Subscribers Originating Facility Marks	11111000																															
Called Subscribers Terminating Facility Marks	11110111																															
National Information Request Indicators	11110110																															
National Information Indicators	11110101																															
National Forward Call Indicators (Link by link)	11110100																															
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:- <table><tr><td>bits</td><td>DC:</td><td>Called party status indicator</td></tr><tr><td>Value</td><td>10</td><td>Connect when free (national use)</td></tr><tr><td>Default</td><td>00</td><td>no indication</td></tr><tr><td>bits</td><td>HG:</td><td>End-to-end method indicator</td></tr><tr><td>Value</td><td>All</td><td></td></tr><tr><td>Default</td><td>00</td><td>no end-to-end method available (only link-by-link method available)</td></tr><tr><td>bits</td><td>PO:</td><td>SCCP method indicator</td></tr><tr><td>Value</td><td>All</td><td>no indication</td></tr><tr><td>Default</td><td>00</td><td></td></tr></table> Delete the national use for the following indicators:- <table><tr><td>bit</td><td>L:</td><td>Holding indicator</td></tr></table>	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	no indication	Default	00		bit	L:	Holding indicator
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	no indication																														
Default	00																															
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 indicator: <table><tr><td>111 1110</td><td>UK Specific Address</td></tr></table> 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 on Ofcom document “The UK National Numbering Scheme”.”	111 1110	UK Specific Address																												
111 1110	UK Specific Address																															

Q.763 Paragraph	Title	Comment
3.10	Calling party number Item b) — Nature of address indicator item g) — Address signal	UK: Delete (national use) for the national (significant) number 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>
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
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	UK: Add the following codepoint: 1111 1110 UK specific number (for intra-network use only)
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.
3.35	Nature of connection indicators bits DC — Continuity check indicator	UK: Mark as not required
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".
3.40	Origination ISC point code	UK: Parameter not required
3.42	Propagation Delay Counter	UK: Parameter not required
3.54	Transmission medium requirement	UK: Delete all the codepoints for the support of the multirate and $N \times 64$ Kbit/s 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	UK: Parameter not required