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PNO-ISC/SER/002

Calling Line Identification Presentation (CLIP)

Calling Line Identification Restriction (CLIR)

(Incorporating Calling Number Display)

Supplementary Services

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PNO-ISC SERVICE DESCRIPTION NUMBER 002

CALLING LINE IDENTIFICATION PRESENTATION (CLIP)
CALLING LINE IDENTIFICATION RESTRICTION (CLIR)
(INCORPORATING CALLING NUMBER DISPLAY)
SUPPLEMENTARY SERVICES

NETWORK INTEROPERABILITY CONSULTATIVE COMMITTEE

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London EC4M 7JJ

0.2 Normative information

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0.4 History

Revision	Date of Issue	Updated By	Description
Issue 1	January 2000	Dave Maple BT	First Published Issue

0.5 Issue control

PAGE	ISSUE	DATE
All	Issue 1	January 2000

0.6 References

- [1] Licence granted by The Secretary of State for Trade and Industry to British Telecommunications under Section 7 of the Telecommunications Act 1984
- [2] ETSI ETS 300 089 ISDN CLIP Stage 1
- [3] ETSI ETS 300 090 ISDN CLIR Stage 1
- [4] ETSI ETS 300 091 CLIP & CLIR Stage 2
- [5] Code of Practice for network operators in relation to calling line identification display services and other related services, 2nd. Edition, June 1998
- [6] PNO-ISC Specification 007 Section 8
- [7] ETSI ETS 300 648 PSTN CLIP Stage 1
- [8] ETSI ETS 300 649 PSTN CLIR Stage 1

0.7 Glossary of terms

0.7.1 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, and 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.

Calling Line Identification Presentation (CLIP) service

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

Note 1: CLIP is not confined to ISDNs and ISDN terminals and includes the non-ISDN calling number display (CND) service.

Note 2: 'Display' means disclosure to the called party by any means.

Calling Line Identification 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 be known as CLI blocking or CLI withhold.

Note 2: CLIR is not confined to ISDNs and ISDN terminals and includes the non-ISDN calling number restriction (CNR) service.

Note 3: 'Display' means disclosure to the called party by any means.

CLI available

A condition in which the CLI exists and can be passed to the called customer's NTP.

CLI restricted/withheld

A condition in which the CLI is not for transmission to the called customer, 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 to the called customer's NTP.

Note: This condition can also occur when the calling customer has chosen the option to prevent display of their Network Number when a Presentation Number is available.

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 /2/ number that unambiguously identifies the ingress port to the public network, i.e. 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 *network provided 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: A network number is always qualified as either available, unavailable or restricted/withheld.

Note 5: The use of one number to identify both the ingress point and egress point 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 known as a default number.

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

Network Termination Point (NTP)

The definition of Annex A 2(i) of /1/ 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.

Presentation Number (PN)

A number that identifies a 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).

Note 4: A presentation number is always qualified as either available, or restricted/withheld.

terminating network

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

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 an 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 but 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.

0.7.2 Abbreviations

CLI	Calling Line Identity
CLIP	Calling Line Identification Presentation
CLIR	Calling Line Identification Restriction
CoP	Code of Practice
ETS	European Telecommunications Standard
ETSI	European Telecommunications Standards Institute
EU	European Union
ISDN	Integrated Services Digital Network
NN	Network Number
NTP	Network Termination Point
PN	Presentation Number
PNO	Public Network Operator
PSTN	Public Switched Telephone Network
UPNV	User Provided Not Verified
UPVP	User Provided Verified and Passed

0.8 Scope

This document provides an overview and detailed description of the operation of the Calling Line Identification Presentation (CLIP) and Calling Line Identification Restriction (CLIR) supplementary services. It applies to all public networks in the UK that support PSTN and/or ISDN interfaces, including GSM networks. It applies to all circuit-switched calls originating or terminating in the UK.

Sections 2 & 3 of this document are written as exceptions to the ETSI ISDN CLIP Stage 1 [2] & ETSI ISDN CLIR Stage 1 [3] service descriptions. It should be noted that the exceptions have been written to allow these service descriptions to apply to both ISDN and PSTN. The ETSI PSTN CLIP Stage 1 [7] and the ETSI PSTN CLIR Stage 1 [8] service descriptions are not applicable in the UK.

1 SERVICE OVERVIEW

This service overview describes the operation of the UK Calling Line Identification Presentation (CLIP) and Calling Line Identification Restriction (CLIR) supplementary services. The service description defines the common set of CLIP/CLIR service requirements that shall be supported on telephony and ISDN calls originating and/or terminating in the UK. Networks supporting, or cooperating in the support of, the CLIP/CLIR supplementary services shall comply fully with the relevant OfTel Code of Practice [5]. Where the requirements of this service description conflict with those of the OfTel Code of Practice [5] the latter shall take precedence.

The UK CLIP service differs from the ETSI CLIP service [2] in that the CLI of a customer who does not have the ability to restrict display of his/her CLI is marked, and may be displayed, as 'Unavailable'. This differentiates this customer from those who have deliberately withheld their CLIs. The CLI may also be marked and presented as 'unavailable' when a calling customer has exercised an option to prevent delivery of their Network Number when they have an 'available' Presentation Number which the terminating network does not have the capability to deliver. (Some terminating networks cannot deliver Presentation Numbers).

The basic requirement is for networks to support the CLIP service using the relevant NN as the number for display, with due regard to its Display Qualifier Information (see Table 1). The additional option is for networks to support the CLIP service using the PN as the number for display, with due regard to its Display Qualifier Information (see Table 1). Where the originating network supports the generation of a PN and the terminating network supports the display of PN, the operation of the CLIP service is based on the PN. Where this does not apply, the operation of the service is based on the NN.

The Display Qualifier Information shall comprise the CLI Blocking Indicator (CBI), and the Identity Qualifier (IQ). The semantics shall be as shown in Table 1.

TABLE 1 - Display Qualifier Information

	CLI Blocking Indicator (CBI)	Network Number Identity Qualifier (NNIQ)	Presentation Number Identity Qualifier (PNIQ)
CLIR operational but not invoked, PN not available	Available	available	n/a
CLIR operational but not Invoked, PN available	Available Note 1	available	available
	Unavailable Notes 1 and 2	available Notes 1 and 2	available
CLIR operational and invoked, PN available	Available	withheld	withheld
CLIR operational and invoked, PN not available	Available	withheld	n/a
CLIR not operational, PN not available	Unavailable	available	n/a

Note 1: The choice between available and unavailable for NN is a customer subscription option.

Note 2: As an interim measure some networks may set the NNIQ to 'withheld' instead of setting the CBI to 'unavailable'.

The CLIP/CLIR service may employ either the IUP signalling protocol or the ISUP signalling protocol at the point of interconnection between networks. Customer access to the networks may be by analogue fixed line telephones, GSM/DCS1800 mobile stations, ISDN terminals, or other means. This document does not address explicitly any interworking that may be required with access signalling.

2 EXCEPTIONS TO ETS 300 089, CLIP SERVICE DESCRIPTION

Ref.	Title	Comment
	Foreword	UK: Delete the last sentence, and insert the following: 'The Stage 2 aspects are detailed in ETS 300 091 as modified by subsection 4 of PNO-ISC/SER/002. The Stage 3 IUP aspects are detailed in PNO-ISC/SPEC/006§9, and the Stage 3 ISUP aspects are detailed in PNO-ISC/SPEC/007§8'
1	Scope	UK: Amend the first sentence as follows: 'This standard defines the stage one of the Calling Line Identification Presentation (CLIP) supplementary service for the pan-European Integrated Services Digital Network (ISDN) as provided by <u>UK</u> European public telecommunications operators.' UK: Wherever it appears delete 'private ISDN' and insert 'private network'. UK: Wherever it appears delete 'public ISDN' and insert 'public network'. UK: Delete the fourth paragraph.
2	Normative references	UK: Add: 'See also Subsection 0.6 '
3	Definitions	UK: Add: 'See also Subsection 0.7 '
5	Description	UK: Delete the first paragraph, and insert the following: 'The CLIP service is a supplementary service available to the called telephony, ISDN, GSM and DCS1800 customer on the terminating network. It provides, for any call to a customer on the terminating network, the possibility of receiving the Calling Line Identity of the customer on the originating network before the call is answered, with additional information if the local access signalling and terminal support this. The CLI is provided by the originating local exchange and/or by the calling customer's network terminating equipment, and is passed to the terminating network, via one or more transit networks if necessary.' UK: At the end of the second paragraph, insert the following: 'When an ISDN subaddress is provided by the calling customer it is not possible for this to be delivered to the called customer if they are connected to the network using a non-ISDN access signalling system.(i.e. it cannot be transported by the access signalling system or interpreted by a PSTN terminal).' UK: Insert a new paragraph 4 as follows: 'If the CLIR supplementary service is not available to the calling customer the CLI shall be qualified as "unavailable" and this will prevent display of the CLI to the called user. Additionally the calling customers Network Number may be qualified as "unavailable" if the customer subscription option to prevent this number from being displayed without the customers Presentation Number, has been exercised.'
6.2.3	Invocation and operation	UK: After the first paragraph insert the following: 'If there is no agreement to pass CLI's between network operators at any point of interconnect, then the incoming network shall mark the CLI as "unavailable" (using the CLI Blocking Indicator).' UK: Wherever it appears delete 'public ISDN' and insert 'public network'.
6.2.3.1	Calling user side	UK: Wherever it appears delete 'private ISDN' and insert 'private network'. UK: Wherever it appears delete 'public ISDN' and insert 'public network'. UK: Delete the first paragraph and replace with: 'An <u>ISDN</u> calling user can insert the calling line identity at call request.' UK: In the second paragraph, delete: 'In a full ISDN environment'. UK: In the fifth paragraph delete 'user provided, not screened' and insert 'user provided, not verified' UK: Insert the following text as a new eighth paragraph: 'The originating network can therefore generate two CLI's for each call; a Network Number (NN) which may be Network Provided (NP) or User Provided Verified and Passed (UPVP) and a Presentation Number (PN) which may be Network Provided (NP), User Provided Verified and Passed (UPVP) or User Provided Not Verified (UPNV).' UK: Insert the following as a new ninth paragraph: 'The CLI Blocking Indication shall be set in accordance with Table 1 in section 1 of PNO-ISC/SER/002'

Ref.	Title	Comment
6.2.3.2	Called user side	<p>UK: Delete existing text and insert the following: 'If the terminating subscriber has subscribed to the CLIP supplementary service, the terminating network has received a Presentation Number, and the interaction with CLIR has not overridden the service, then this number shall be displayed to the called user. If the two number delivery option applies and the interaction with CLIR has not overridden the CLIP service, then both the Presentation Number and the Network Number shall be displayed to the called user. If the terminating subscriber has subscribed to the CLIP supplementary service, the terminating network has not received a Presentation Number and the interaction with CLIR and/or an "unavailable" indication have not overridden the CLIP service, then the Network Number shall be displayed to the called user. If the terminating subscriber has subscribed to the CLIP supplementary service, the terminating network has received neither a Network Number nor a Presentation Number, or the terminating network has received an "unavailable" indication without a Presentation Number, then the terminating network shall send an "unavailable" indication to the called user. If CLIR has overridden the CLIP service the terminating network shall send a "restricted" / "withheld" indication to the called user.'</p>
6.3.3	Invocation and operation	<p>UK: In the first paragraph delete 'ISDN user' and insert 'user'. UK: At the end of the first paragraph delete: 'not available because of restriction' and insert: 'restricted'. UK: Delete the second paragraph and insert the following: 'The NN, and PN if available, shall be provided by all networks that support the CLIP service. If neither the full NN nor full PN can be provided, e.g. due to interworking, then, in general, the CLI shall be indicated as "unavailable" by the first network encountered with the capability of providing this indication.' UK: Delete the third paragraph. UK: Insert a new third paragraph as follows: 'On calls to analogue & ISDN terminals in the UK, the CLI shall not be displayed, and an explicit indication shall be given to the called party that the CLI is unavailable for display in the following situations: - a Presentation Number has not been received and the Display Qualifier Information received indicates that the CLI is unavailable;and/or - the incoming signalling system does not support the CLIP/CLIR service; and/or - no agreement exists to pass CLI between the operators at the point(s) of interconnect.' UK: Insert a new fourth paragraph: 'When a call traverses a network that does not support the service, but using a signalling system that does, then the service shall be supported transparently by that network.'</p>
7	Intercommunication considerations	UK: In the NOTE delete 'user provided, not screened' and insert 'user provided, not verified'
7.1	Interworking with non-ISDNs	UK: Delete entire section.
7.2	Interworking with private ISDNs	<p>UK: Wherever it appears delete 'private ISDN' and insert 'private network'. UK: Wherever it appears delete 'public ISDN' and insert 'public network'.</p>
8	Interaction with other supplementary services	<p>UK: Add: '8.18 Number portability No impact on donor network.'</p>
Annex A	Two calling party number delivery option	<p>UK: Wherever it appears delete 'ISDN' and insert 'network'. UK: Delete 'user provided, not screened' and insert 'user provided, not verified'</p>
Annex B	Terminal interchangeability between public and private ISDNs	UK: Wherever it appears delete 'ISDNs' and insert 'networks'.

3 EXCEPTIONS TO ETS 300 090, CLIR SERVICE DESCRIPTION

Ref.	Title	Comment
	Foreword	UK: Delete the last sentence, and insert the following: 'The Stage 2 aspects are detailed in ETS 300 091 as modified by subsection 4 of PNO-ISC/SER/002. The Stage 3 IUP aspects are detailed in PNO-ISC/SPEC/006§9, and the Stage 3 ISUP aspects are detailed in PNO-ISC/SPEC/007§8'
1	Scope	UK: Amend the first sentence as follows: 'This standard defines the stage one of the Calling Line Identification Restriction (CLIR) supplementary service for the pan-European Integrated Services Digital Network (ISDN) as provided by UK European public telecommunications operators.' UK: Wherever it appears delete 'private ISDN' and insert 'private network'. UK: Wherever it appears delete 'public ISDN' and insert 'public network'. UK: Delete the fourth paragraph.
2	Normative references	UK: Add: 'See also Subsection 0.6 '
3	Definitions	UK: Add: 'See also Subsection 0.7 '
5	Description	UK: Delete both of the existing paragraphs, and insert the following: 'The CLIR service is a supplementary service available to the calling telephony, ISDN, GSM and DCS1800 customer on the originating network. It provides a calling customer with the ability to control whether his/her CLI and subaddress information (if any) is presented to the called customer. When a calling customer exercises the option to withhold his/her CLI from display to the called customer, the CLI is qualified as restricted. The restricted qualification applies to both the calling customer's network number and the calling customer's presentation number (if available). If CLIR is not supported, then the CLI shall be qualified as unavailable. In the case where the called party has an override category, see subclause 6.2.3'
6.2.3.2	Called user side	UK: At the end of the first paragraph delete: 'not available due to restriction' and insert: 'restricted'. UK: Add a new second paragraph as follows: 'The CLI shall be indicated as restricted only if all of the following conditions are satisfied: - the calling customer is directly connected to a network that supports the CLIP/CLIR service; - the Display Qualifier Information received indicates that the CLI is restricted; - the CLI has been received by the terminating network; - the called customer has subscribed to the CLIP service; - an agreement exists to pass CLI between the operators at the point(s) of interconnect.' UK: Add a new third paragraph as follows: 'If an indication is received in the Display Qualifier Information that the calling customer does not have the capability to invoke CLIR (i.e. the CLI has been classified as "unavailable") then any received Network Number shall not be presented and if an "available" Presentation Number has not been received then an indication that the CLI is "unavailable" shall be made available to the called user. However in the case of the two number delivery option any "unavailable" indication received from the network shall be ignored.'
6.3.3	Invocation and operation	UK: Delete: 'Not applicable' and insert: 'When a call traverses a network that does not support the service, but using a signalling system that does, then the service shall be supported transparently by that network.'
7	Intercommunication considerations	UK: Delete 'public ISDNs' and insert 'public networks'. UK: Delete the NOTE.
7.1	Interworking with non-ISDNs	UK: Delete entire section.
7.2	Interworking with private ISDNs	UK: Wherever it appears delete 'ISDN' and insert 'network'.
8	Interaction with other supplementary services	UK: Add ' 8.18 Number portability No impact on donor network.'

4 EXCEPTIONS TO ETS 300 091, CLIP/CLIR FUNCTIONAL CAPABILITIES AND INFORMATION FLOWS

Ref.	Title	Comment																																													
	Foreword	UK: Delete the last sentence, and insert the following: 'The Stage 1 aspects are detailed in ETS 300 089/090 as modified by subsections 2/3 of PNO-ISC/SER/002. The Stage 3 IUP aspects are detailed in PNO-ISC/SPEC/006§9, and the Stage 3 ISUP aspects are detailed in PNO-ISC/SPEC/007§8'																																													
1	Scope	UK: Amend the first sentence as follows: 'This standard defines the stage two of the <u>Calling Line Identification Presentation (CLIP) and Calling Line Identification Restriction (CLIR) supplementary services pan-European Integrated Services Digital Network (ISDN)</u> as provided by <u>UK</u> the European public telecommunications operators for the <u>Calling Line Identification Presentation (CLIP) and Calling Line Identification Restriction (CLIR) supplementary services.</u> UK: Wherever it appears delete 'private ISDN' and insert 'private network'. UK: Wherever it appears delete 'public ISDN' and insert 'public network'. UK: Delete the fifth paragraph.																																													
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3	Definitions	UK: Add: 'See also Subsection 0.7'																																													
5	Description	UK: Add at the end of each paragraph: 'as amended by Sections 2 and 3 of this document'																																													
6.2	Description of functional entities	UK: Amend the text relating to FE3 as follows: 'FE3 handling of calling line identity at international gateway <u>network</u> '																																													
7.2	Definition of individual information flows	UK: Amend as follows: 'Within the definitions below, the <u>Display qualifier information P1</u> can take one of the following <u>values</u> rules: a) <u>available for display presentation-allowed</u> : or b) <u>presentation restricted</u> ; or c) <u>unavailable for display number not available</u> . Editorial: Delete 'rules' and insert 'values'. UK: Delete 'screened' and insert 'verified'.																																													
7.2.2.1	Contents of INFORM2 Table 2	UK: Amend Table 2 as shown below. <table border="1" data-bbox="555 1352 1469 2056"> <thead> <tr> <th>Parameter</th> <th>Allowed value</th> <th>req. ind</th> </tr> </thead> <tbody> <tr> <td>Network Number</td> <td>-</td> <td>M</td> </tr> <tr> <td>- numbering plan identification</td> <td>ISDN number</td> <td>M</td> </tr> <tr> <td>- type of number</td> <td>National (significant) number International number</td> <td>M</td> </tr> <tr> <td>- number digits</td> <td>-</td> <td>M</td> </tr> <tr> <td>- screening Indicator (SI)</td> <td>Network provided number User provided number, verified and passed</td> <td>M</td> </tr> <tr> <td>- Address Presentation Restricted indicator (APRI)</td> <td>Available for display Presentation restricted</td> <td>M</td> </tr> <tr> <td>Presentation number</td> <td>-</td> <td>O</td> </tr> <tr> <td>- numbering plan identification</td> <td>ISDN number</td> <td>M</td> </tr> <tr> <td>- type of number</td> <td>National (significant) number International number</td> <td>M</td> </tr> <tr> <td>- number digits</td> <td>-</td> <td>M</td> </tr> <tr> <td>- screening indicator (SI)</td> <td>Network provided number User provided number, verified and passed User provided number, not verified</td> <td>M</td> </tr> <tr> <td>- Address Presentation Restricted indicator (APRI)</td> <td>Available for display Presentation restricted</td> <td>M</td> </tr> <tr> <td>Subaddress</td> <td>-</td> <td>O (Note 1)</td> </tr> <tr> <td>CLI Blocking Function</td> <td>Network Number may not be disclosed to called user as the sole number (unavailable). Network number may (subject to interaction with CLIR) be disclosed to the called user (available).</td> <td>M</td> </tr> </tbody> </table> Note 1: This information flow is included only in the case that FE1 provides the information	Parameter	Allowed value	req. ind	Network Number	-	M	- numbering plan identification	ISDN number	M	- type of number	National (significant) number International number	M	- number digits	-	M	- screening Indicator (SI)	Network provided number User provided number, verified and passed	M	- Address Presentation Restricted indicator (APRI)	Available for display Presentation restricted	M	Presentation number	-	O	- numbering plan identification	ISDN number	M	- type of number	National (significant) number International number	M	- number digits	-	M	- screening indicator (SI)	Network provided number User provided number, verified and passed User provided number, not verified	M	- Address Presentation Restricted indicator (APRI)	Available for display Presentation restricted	M	Subaddress	-	O (Note 1)	CLI Blocking Function	Network Number may not be disclosed to called user as the sole number (unavailable). Network number may (subject to interaction with CLIR) be disclosed to the called user (available).	M
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7.2.3.1	Contents of INFORM3	<p>UK: Amend Table 3 to align with the amended Table 2.</p> <p>UK: Delete Note 2.</p> <p>UK: Add new Note 2 as follows:</p> <p>'The NN, and PN if available, shall be provided by all networks that support the CLIP service. If neither the full NN nor full PN can be provided, e.g. due to interworking, then, in general, the CLI shall be indicated as unavailable by the first network encountered with the capability of providing this indication.'</p>																											
7.2.4.1	Contents of INFORM4	<p>UK: At end of first paragraph add the following:</p> <p>'If the called customer is connected to a non-ISDN access line and the CLI of the calling terminal is a UK number, it is delivered to the called customer's NTP in the form of the full national number including the leading zero trunk prefix. Where the CLI of the calling terminal is not a UK number (e.g. for a foreign GSM/DCS1800 handset roaming in the UK) the CLI delivered to a non-ISDN called customer's NTP is in the form of the full international number, i.e. international prefix plus E.164 number.'</p>																											
7.2.4.1	Contents of INFORM4 Table 4	<p>UK: Delete Table 4 and replace with Table as shown below.</p> <table border="1" data-bbox="422 763 1342 1176"> <thead> <tr> <th>Parameter</th> <th>Allowed Values</th> <th>Req.ind</th> </tr> </thead> <tbody> <tr> <td>Number information</td> <td>-</td> <td>M (Note 1)</td> </tr> <tr> <td>- Numbering Plan identification</td> <td>ISDN Number</td> <td>M (Note 2)</td> </tr> <tr> <td>- Type of Number</td> <td>National Number International Number</td> <td>M (Note 2)</td> </tr> <tr> <td>- Number digits</td> <td>-</td> <td>M (Note 3)</td> </tr> <tr> <td>Subaddress</td> <td>-</td> <td>O (Notes 2&4)</td> </tr> <tr> <td>Presentation Indicator (PI)</td> <td>Presentation allowed (Note5) Presentation restricted Number not available</td> <td>M (Note 1)</td> </tr> <tr> <td>Screening indicator (SI)</td> <td>Network provided number User provided verified and passed number User provided not screened number</td> <td>M (Notes 1&2)</td> </tr> <tr> <td>Textual Message</td> <td>Payphone International</td> <td>O (Note 6)</td> </tr> </tbody> </table> <p>Note 1: This information flow may be sent twice if the two number delivery option is applicable.</p> <p>Note 2: These information flows are included only for an ISDN access line.</p> <p>Note 3: Number digits are not included if the PI is "restricted" or "not available".</p> <p>Note 4: This information flow is included only if FE1 provides the information.</p> <p>Note 5: The "Presentation allowed" information flow is included only for an ISDN access line. (For CND the inclusion of "Number Digits" implies "Presentation allowed").</p> <p>Note 6: This information flow is included only for an analogue access line (CND).</p>	Parameter	Allowed Values	Req.ind	Number information	-	M (Note 1)	- Numbering Plan identification	ISDN Number	M (Note 2)	- Type of Number	National Number International Number	M (Note 2)	- Number digits	-	M (Note 3)	Subaddress	-	O (Notes 2&4)	Presentation Indicator (PI)	Presentation allowed (Note5) Presentation restricted Number not available	M (Note 1)	Screening indicator (SI)	Network provided number User provided verified and passed number User provided not screened number	M (Notes 1&2)	Textual Message	Payphone International	O (Note 6)
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8	SDL diagrams for functional entities	<p>UK: Delete all SDL diagrams and add the following note:</p> <p>'Note: The SDL has been deleted in this version due to lack of resources for enhancements for UK specific features.'</p>																											
9.2	FEAs for FE2	<p>UK: Amend 920 as follows:</p> <p>'The functional entity shall check <u>whether a calling line identity</u> is provided by FE1 and if not, shall include the default calling party <u>ISDN Network Number in the Network Number parameter</u>, with the screening indicator set to "network provided".</p> <p><u>If a default Presentation Number, is available, then the functional entity shall include this number in the Presentation Number parameter with the screening indicator set to "network provided".</u></p>																											

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9.2	FEAs for FE2	<p>UK: Amend 921 as follows:</p> <p>'The functional entity shall verify <u>any calling party ISDN number received from FE1</u> (unless a special arrangement for not screening the number exists).</p> <p>If screening is successful then this number shall be included in the Network Number parameter with the screening indicator set to "User Provided Verified and Passed". If an enhanced screening function exists within FE2 then this number (with a different prefix) may also be included in the Presentation Number parameter with the screening indicator set to "user provided verified and passed".</p> <p>If screening is unsuccessful then the number shall be discarded and the default Network Number shall be included in the Network Number parameter with the screening indicator set to "Network Provided".</p> <p>If a special arrangement exists any calling party number received from FE1 shall not be screened and the number shall be included in the Presentation Number parameter with the screening indicator set to "user provided not verified". The default Network Number shall also be included in the Network Number parameter with the screening indicator set to "Network Provided".'</p>																																				
9.2	FEAs for FE2	<p>UK: Insert a new item 9261:</p> <p>'The functional entity shall set the CLI Blocking Indicator.'</p>																																				
9.2	FEAs for FE2	<p>UK: Amend 927 as follows:</p> <p>'The functional entity shall forward the information to FE3. <u>If no Presentation Number exists then the Presentation Number parameter shall not be sent.</u>'</p>																																				
9.4	FEAs for FE4	<p>UK: Insert a new item 9401:</p> <p>'9401 If a Presentation Number has not been received from the network, the functional entity shall check the CLI Blocking Indicator (CBI) and if it is set to "Network Number may not be displayed to called user as the sole number", then any received CLI shall not be delivered to the called user. In this case an "unavailable" indication shall be sent to the called user.'</p>																																				
9.4	FEAs for FE4	<p>UK: Insert a new item 9411:</p> <p>'9411 The functional entity shall check whether a Network Number and/or Presentation Number have been provided, and shall identify one or two numbers for display in accordance with Table 4A below.'</p> <p style="text-align: center;">Table 4A - Types of CLI Displayed</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">INFORMATION PROVIDED</th> <th colspan="2">TYPE of CLI SENT to FE5</th> </tr> <tr> <th>Network Number</th> <th>Presentation Number</th> <th>First Number</th> <th>Second Number (Two Number Delivery)</th> </tr> </thead> <tbody> <tr> <td>NP</td> <td>-</td> <td>NP-NN</td> <td>-</td> </tr> <tr> <td>NP</td> <td>NP</td> <td>NP-PN</td> <td>NP-NN</td> </tr> <tr> <td>NP</td> <td>UPVP</td> <td>UPVP-PN</td> <td>NP-NN</td> </tr> <tr> <td>NP</td> <td>UPNV</td> <td>UPNV-PN</td> <td>NP-NN</td> </tr> <tr> <td>UPVP</td> <td>-</td> <td>UPVP-NN</td> <td>-</td> </tr> <tr> <td>UPVP</td> <td>NP</td> <td>NP-PN</td> <td>UPVP-NN</td> </tr> <tr> <td>UPVP</td> <td>UPVP</td> <td>UPVP-PN</td> <td>UPVP-NN</td> </tr> </tbody> </table>	INFORMATION PROVIDED		TYPE of CLI SENT to FE5		Network Number	Presentation Number	First Number	Second Number (Two Number Delivery)	NP	-	NP-NN	-	NP	NP	NP-PN	NP-NN	NP	UPVP	UPVP-PN	NP-NN	NP	UPNV	UPNV-PN	NP-NN	UPVP	-	UPVP-NN	-	UPVP	NP	NP-PN	UPVP-NN	UPVP	UPVP	UPVP-PN	UPVP-NN
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10	Allocation of functional entities to physical locations	<p>UK: Under FE2, delete 'LE' and insert 'LE within originating public network'; and under 'FE4' delete 'LE' and insert 'LE within terminating public network'.</p>																																				

End of PNO-ISC/SER/002