

Guidance on the provision of Calling Line Identification facilities and other related services

GUIDANCE ON CLI FACILITIES

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About this document

Calling Line Identification (CLI) facilities provide information to the recipient of a telephone call about the party making the call. CLI Data consists of the caller's line identity along with a privacy marking, which indicates whether the number can be shared with the recipient of the call. It is exchanged between communications providers involved in the connection of the call and can also be used in regulatory and enforcement action, for example, to identify the sources of nuisance calls. CLI Data needs to be provided correctly and delivered across networks accurately. As individuals have the right to withhold their CLI to maintain their privacy, it is also important that CLI Data is passed on reliably so that the privacy of individuals can be respected.

General Condition C6 requires communications providers to provide CLI facilities, unless they can demonstrate that it is not technically feasible or economically viable to do so. Where CLI is provided, it must include a valid, dialable telephone number which uniquely identifies the caller. This document sets out guidance on how CLI Data should be carried through different networks and the responsibilities of different parties involved in the routing of a call. Its aim is to ensure that communications providers improve the consistency of CLI Data presented to consumers, whilst also complying with statutory requirements on the privacy rights of individuals making and receiving calls.

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1. Summary

- 1.1 Calling Line Identification (CLI) facilities provide information about the party making a telephone call. CLI Data consists of the caller's line identity along with a privacy marking, which indicates whether the number can be shared with the recipient of the call. The CLI Data is shared between different Communications Providers (CPs) who are involved in the connection of the call, and for the information to be shared reliably, it requires that the CLI Data is provided correctly and that this information is passed between networks accurately. As the CLI identifies the end user associated with a number, the privacy choices of the end user need to be respected.
- 1.2 Every call must have CLI Data that represents the point of ingress into the network, this is known as the 'Network Number'. It may also include another number representing the identity of the caller which is the telephone number displayed to the recipient of the call, this is known as the 'Presentation Number'. In many situations, the Network Number and the Presentation Number are the same number.
- 1.3 The CLI Data that is presented with a call can provide assurance to the recipient of the call about who they are talking to, and allow them to take informed decisions on how to handle incoming calls. However, the passage of CLI information can be vulnerable to misuse, for example the insertion of false information to intentionally mislead the recipient of the call as to the identity of the caller.
- 1.4 There needs to be a consistent approach to the handling of CLI Data, from call origination through to call termination, particularly for calls that pass through two or more network providers. This is to ensure that the CLI itself can be passed on accurately and that the privacy choices made by end users about their CLI Data are respected by all CPs involved in the origination, transmission and termination of that call.
- 1.5 Ofcom's General Conditions require CPs to provide CLI facilities, where technically feasible and economically viable to do so. They also require CPs to ensure that any CLI Data provided with and/or associated with a call includes a valid, dialable telephone number which uniquely identifies the caller. The aim of this document is to establish the principles for this approach, setting out what is expected of CPs to meet these requirements and to provide guidance for all CPs that participate in the origination, transmission and termination of a call in the UK.

2. Background, Legal Context and Scope

Background

- 2.1 This document sets out guidance on how CPs should approach the handling of CLI Data from the initiation of a call to its termination. The aim of this document is to ensure that the accuracy of CLI Data is protected throughout the transmission of a call and that the privacy choices of end users are respected and maintained throughout all parts of the call process, from the origination, to the transmission and to the termination of a call.
- 2.2 A common approach by all CPs is necessary as this will give CPs and end users certainty about the information that is provided with a telephone call. This is because the end-to-end conveyance of a call originated by an end user frequently requires the collaboration of several network providers and it is important that all CPs treat CLI Data in the same way. This document replaces the Ofcom guidelines on CLI facilities which were published in 2003 and subsequently amended in 2007.

Legal Context

- 2.3 The requirements for the display of CLI Data are set out in the General Conditions of Entitlement (GCs), in GC C6.¹ This requires CPs, subject to technical feasibility and economic viability, to provide Calling Line Identification facilities. It also specifies that the CP must ensure that any CLI Data provided with a call includes a valid, dialable telephone number which uniquely identifies the caller. Where CPs identify a call that has invalid or non-dialable CLI Data, the GC requires the CP to prevent these calls from being connected to the called party, where technically feasible.
- 2.4 CLI Data is personal data within the meaning of data protection legislation. Therefore, CPs must also comply with regulations 10 to 13 of the Privacy and Electronic Communications (EC Directive) Regulations (PECR) 2003.² This sets out a fundamental series of privacy rights for end users making and receiving calls.
- 2.5 PECR was amended in 2016 to require anyone making calls for direct marketing purposes not to prevent the presentation of the identity of the calling line on the called line and to ensure that a valid number is presented to the recipient of the call.³
- 2.6 We may need to make changes to this guidance from time to time. We will consult on these changes in the usual way as and when appropriate.

¹ https://www.ofcom.org.uk/data/assets/pdf_file/0021/112692/Consolidated-General-Conditions.pdf

² <http://www.legislation.gov.uk/uksi/2003/2426/contents/made>

³ http://www.legislation.gov.uk/uksi/2016/524/pdfs/uksi_20160524_en.pdf

Scope

- 2.7 This guidance applies to all CPs who fall under the scope of the requirements of GC C6 and of PECR. Therefore, it applies to all providers of Publicly Available Telephone Services and Public Electronic Communications Networks over which Publicly Available Telephone Services are provided.
- 2.8 Although CPs are required to comply with GC C6 for *Calling* Line Identification, CPs must also be mindful of the privacy requirements relating to the *Connected* Line⁴, arising from PECR. Therefore, we also encourage CPs to follow these principles for Connected Line (COL) information.
- 2.9 We also encourage CPs to reference this guidance in their interconnect agreements so that their contracting parties also follow them.

Technical Standards

- 2.10 The format of telephone numbers is defined by the ITU in their International Public Telecommunication Numbering Plan.⁵ This document sets out the structure of telephone numbers and how the numbers should be interpreted.
- 2.11 In the UK, CPs have developed the rules that must be applied when an interconnection is made between different CPs, via NICC standards.⁶ These rules are set out in ND1016.⁷ CPs interconnecting with other CPs should follow these rules wherever possible, although there may be instances where this is not possible.

Enforcement

- 2.12 Although this guidance is not legally binding, we may take it into account in enforcement action against other binding requirements, including:
- the General Conditions, requiring CPs to provide CLI facilities, including CLI Data with a telephone number that is valid, dialable and uniquely identifies the caller; and
 - the Communications Act 2003, which gives Ofcom powers to take enforcement action against persistent misuse of Electronic Communications Networks or Services. These powers may be exercised where end users knowingly cause unauthentic or misleading CLI Data to be sent.⁸
- 2.13 The Information Commissioner's Office has primary responsibility for enforcement against the requirements of PECR.

⁴ The Connected Line Identity (COL) represents the information about the called party.

⁵ ITU-T Recommendation E.164 <https://www.itu.int/rec/T-REC-E.164/en>

⁶ NICC Standards Limited is the UK telecoms industry standards forum that develops interoperability standards for UK communications networks.

⁷ <http://www.niccstandards.org.uk/files/current/ND1016v3%202%201.pdf?type=pdf>

⁸ <https://www.ofcom.org.uk/consultations-and-statements/category-1/review-of-how-we-use-persistent-misuse-powers>

3. End Users' Privacy Rights

- 3.1 This section sets out the principles that arise from the Privacy and Electronic Communications (EC Directive) Regulations (PECR) 2003⁹, in particular regulations 10 to 13, which set out a series of fundamental privacy rights for end users making and receiving calls.
- 3.2 The rights of the calling party are that:
- a) They must be able, using a simple means and free of charge, to prevent the display of their number at the point where their call terminates – this option may be exercised by users on a call-by-call basis and by subscribers on a more permanent basis by preventing the display of CLI Data on all calls made from a particular line;
 - b) But that any person making calls for direct marketing purposes must not withhold their number (see below).
- 3.3 The rights of the called party are that:
- a) They must be able, using a simple means and free of charge for reasonable use, to prevent the display of CLI Data relating to incoming calls (so that help-lines are able to offer an assurance of anonymity to people who call them).
 - b) Where CLI Data is displayed before a call is established, they must be able, using a simple means and free of charge, to reject calls where the caller has (i) been given the option of preventing the display of their CLI Data and (ii) deliberately chosen to exercise this option. The service is commonly known as Anonymous Call Reject (ACR).
 - c) Where connected line identification (COL) is in use they must be able, using a simple means and free of charge, to prevent the display to the caller of the actual number to which an incoming call has been connected.
- 3.4 The Privacy and Electronic Communications (EC Directive) (Amendment) Regulations 2016¹⁰ introduced new requirements specifically in relation to direct marketing calls and calls on automated calling systems. The amended regulations 19 and 21 of PECR stipulate that any person making direct marketing calls or calls on automated calling systems must not prevent the presentation of the identity of the calling line on the called line and must present the identity of a telephone number on which they can be contacted.
- 3.5 An additional right that arises from the application of general data protection principles is the ability of called end users to render inaccessible received CLI Data that is stored by a CP in a form directly retrievable by an end user. This capability is commonly known as call return/1471 erasure.
- 3.6 Where a called end user has selected to use Anonymous Call Reject, in accordance with paragraph 3.3(c), the calling end user should be advised as to why the call has been

⁹ <http://www.legislation.gov.uk/uksi/2003/2426/contents/made>

¹⁰ http://www.legislation.gov.uk/uksi/2016/524/pdfs/uksi_20160524_en.pdf

rejected, for example a recorded announcement with an explanation that the call was rejected because they restricted their CLI. This notification should be provided free of charge to the calling end user.

Exceptions to the caller's privacy rights

- 3.7 PECR also sets out exceptions where the caller's right to prevent the display of their CLI Data can be overridden. These are for calls that are made to the emergency services or to assist relevant authorities in investigating and tracing malicious or nuisance calls.
- 3.8 Privacy rights may also be restricted in order to safeguard national security, defence, public security and to facilitate the prevention, investigation, detection and prosecution of criminal offences. The Investigatory Powers Act 2016 creates a legal framework within which Communications Data, which includes CLI Data, may be obtained and disclosed to designated authorities in order to secure these objectives.

4. Requirements for Communications Providers providing CLI facilities

- 4.1 This section sets out the principles for CPs providing CLI facilities on how CLI Data must be provided and passed through their networks to meet the requirements in the General Conditions and to respect end users' privacy wishes.
- 4.2 General Condition C6 requires CPs to provide CLI facilities and enable them by default unless they can demonstrate that it is not technically feasible or economically viable to do so. CLI facilities must be provided at no additional or separate fee. The CP must inform its subscribers if CLI facilities are not available on the service they are providing. We expect CPs to inform their customers at the start of their contract whether they are able to provide the functions of the CLI facilities and to update their customers where the situation changes.
- 4.3 GC C6 also specifies that when providing CLI facilities, CPs must ensure, so far as technically feasible, that any CLI Data provided with and/or associated with a call includes a valid, dialable telephone number which uniquely identifies the caller. It also requires CPs to respect the privacy choices of end users. Where technically feasible, CPs must take all reasonable steps to identify calls which have invalid or non-dialable CLI Data and prevent those calls from being connected to the called party.
- 4.4 The CLI facilities are the functions supporting the provision of CLI Data with a telephone call. The CLI Data consists of a telephone number and an associated privacy marking. This represents the identity of the party making the call.
- 4.5 These rules help to ensure that the correct information is made available to end users, where appropriate, and for network functions, such as call tracing. Where a CP is unable to provide CLI facilities to their customer, they should inform their customer.
- 4.6 In addition to these principles, this section also sets out where CPs must not have access to their customers' CLI Data, to comply with data privacy rules.

Principles for the provision and handling of CLI Data

- 4.7 The fundamental principles behind the provision of CLI facilities are those of validity, privacy and integrity. As CPs will need to co-ordinate between different networks to follow these principles, we recommend that CPs refer to industry standards, such as the NICC standard ND1016.
- 4.8 A telephone call may be associated with two numbers, the Network Number and the Presentation Number. The Network Number is a telephone number that unambiguously identifies the line identity of the fixed access ingress to the Public Electronic Communications Network. The telephone number that is displayed to an end-user is the

Presentation Number representing the identity of the caller.¹¹ The CLI can identify the individual making the call or the organisation that the individual is representing, for example where the individual caller is making a call from a line behind a Private Branch Exchange (PBX).

- 4.9 Every call must be associated with a Network Number, which identifies the source of the call. In many cases, the Presentation Number is the same as the Network Number. In this situation, the CP must be mindful of the requirements for both Network and Presentation Numbers.

A valid, dialable number which uniquely identifies the caller

- 4.10 The General Conditions require that CPs must present a valid, dialable telephone number which uniquely identifies the caller.
- A **valid number** is one which complies with the International public telecommunication numbering plan (Recommendation ITU-T E.164).¹² Where a UK number is used, it must be a number that is designated as a 'Telephone Number available for Allocation' in the National Telephone Numbering Plan¹³ and be shown as allocated in the National Numbering Scheme.¹⁴
 - A **dialable number** must be one that is in service and can be used to make a return or subsequent call.
 - A number **uniquely identifies the caller** (which can be an individual or an organisation) where it is one which the user has authority to use, either because it is a number which has been allocated to the user or because the user has been given permission (either directly or indirectly) to use the number by a third party who has been allocated that number.
- 4.11 The responsibility to ensure that CLI Data fulfils these requirements falls to all CPs involved in the transmission and interconnection of the call. The checks that a CP may be expected to carry out will vary depending on their role in that call.
- 4.12 It is the responsibility of the originating CP to ensure that the correct CLI Data is generated at call origination. This applies in respect of both the Network Number and the Presentation Number. The Network Number must be one that has been allocated to the originating CP or a number that has been imported into their network. This number identifies the point of ingress for that call.
- 4.13 The originating CP is also responsible for ensuring that the Presentation Number is either a CLI from a number range that has been allocated to the originating network, or seeking assurance from their customer that they are using a CLI that they have permission to use

¹¹ For the COL, the number that is displayed represents the destination of the call.

¹² <https://www.itu.int/rec/T-REC-E.164/en>

¹³ <https://www.ofcom.org.uk/phones-telecoms-and-internet/information-for-industry/numbering>

¹⁴ The National Numbering Scheme is the day-to-day record of the telephone numbers allocated by Ofcom in accordance with the Numbering Plan. It is published on our website here: <http://static.ofcom.org.uk/static/numbering/index.htm>

(either because they have been directly allocated that number or have been given permission by a third party who has been allocated that number).

- 4.14 There may be some CPs who offer services where a CLI is not required, e.g. where the call does not originate on a public network. On its ingress to a public network we would expect CLI Data to be associated with a call. This could be a network number that has been allocated or ported to the CP, so long as the CP is able to uniquely identify the original caller where needed.
- 4.15 For calls originated on networks to which the requirements of the GCs do not apply e.g. incoming international calls, the responsibility to check the validity of the CLI Data falls on the CP at the first point of ingress to the UK network. Where the CP at the point of ingress does not reasonably trust the CLI Data that is being provided, or where CLI Data is not available, the CP should insert a CLI from a range that has been allocated to them for this purpose as a Network Number and mark it as 'unavailable' so that it is not displayed to the call recipient.
- 4.16 Where technically feasible, transit CPs should also ensure that the CLI Data that they pass with a call contains valid and dialable CLI and the terminating CP should present only valid and dialable CLI Data to the end user. For a transit or terminating CP, for calls that have a UK number, a valid and dialable CLI is one that has been allocated in the National Numbering Scheme. CPs should also have regard to the recommendations set out in Section 5 on Network and Presentation Numbers. For calls with an international number, for the transit or terminating CP, a valid CLI is one that complies with the format set out in the ITU-T numbering plan E.164.¹⁵ CPs should check that the CLI has the correct number of digits and is in a suitable format.
- 4.17 In addition to ensuring that CLI Data is populated properly, General Condition C6 also places an obligation on all CPs to take steps to prevent calls that have invalid or non-dialable CLIs from reaching the called party. This means that CPs who have the technical capability should block or divert such calls. For the originating CP, this means they should not initiate calls that have invalid or non-dialable CLIs. Transit and terminating CPs, where they have the technical capability, should stop calls with invalid or non-dialable CLIs (for UK calls, these are calls using Presentation Numbers that are not from an allocated number range; and for international calls, a number that is not in the correct international format).
- 4.18 Calls can be stopped either through blocking or filtering. Blocking is where the CP, subject to their technical capability, identifies calls with invalid or non-dialable CLI and prevents these calls from being connected to the end user. Alternatively, terminating CPs could provide a call filtering service, where calls with invalid or non-dialable CLI are diverted to a mailbox, so that these calls are not immediately connected to the end user.
- 4.19 There are other ways to prevent calls with invalid or non-dialable CLI reaching the called party. For example, CPs can prevent calls with invalid or non-dialable CLI from being

¹⁵ ITU-T Recommendation E.164 (11/2010) "The international public telecommunication numbering plan"
<https://www.itu.int/rec/T-REC-E.164/en>

CPs may also assume the country of origin of the call using the Country Code in the received CLI.

connected to the called party by working with their upstream providers to ensure that any calls that are connected to their network have CLI Data that meets the requirements of GC C6.4.

Privacy

- 4.20 To satisfy the end user's right to prevent the display of their number, the originating provider must provide the correct privacy marking alongside the number. This marking must indicate to the recipient's network that the CLI is:
- Available – where the caller has been given the possibility of preventing the display of CLI Data and has chosen not to do so; or
 - Withheld – where the caller has been given the possibility of preventing the display of CLI Data and has chosen to exercise this option
- 4.21 Within the network CPs may use other indicators in situations other than the above, such as where it is not possible to offer an end user privacy choices and ensure they are respected.
- 4.22 For calls received from a network outside the scope of these requirements, the CP at the first point of ingress to the UK networks is responsible for ensuring that the call signalling reflects UK regulation to ensure that caller's privacy rights are respected. The CP receiving the call at the ingress to UK networks can use the same privacy markings as above, but in this context the markings have a different meaning:
- Available – where the CLI Data is deemed to be reliable and the caller has chosen not to prevent the display of their CLI
 - Withheld – where there is an explicit indication that the caller does not wish to make their CLI available to the recipient of the call
 - Unavailable – where there is an explicit indication that the originating network has restricted the CLI on behalf of the calling party and their CLI should not be made available, or where it is absent, or when the ingress CP has inserted a Network Number into the call as it has deemed the CLI Data presented with the call unreliable.
- 4.23 It is the responsibility of the CP terminating the call to ensure that CLI Data is only displayed to the end user where the caller has chosen to make this information available and the recipient of the call has chosen not to prevent the display of CLI Data relating to incoming calls.¹⁶ For calls that are being passed to networks where these requirements do not apply, the CP at the point of egress should only pass on the CLI Data where the caller has chosen to make this information available and where they have good reason to believe that the CPs in the onward chain will respect the privacy markings. Otherwise, to avoid a caller's identity being displayed to the called party where the CLI information has been classified as 'withheld' or 'unavailable', the CLI information should be deleted at the gateway exchange.

¹⁶ For COL, the originating CP (that is the originating CP for the party initiating the call) is responsible for ensuring that COL data is only presented where the called party has chosen to make this information available.

Integrity

- 4.24 All CPs involved in the transmission of a call should do all that is technically feasible to ensure that the authenticity of the CLI Data is maintained from call origination to call termination. Where this includes a Presentation Number, CPs must consider whether this number is sufficiently authentic and whether further verification is required, subject to technical feasibility. Section 5 sets out some of these scenarios.

Use of end user's CLI Data within the network

- 4.25 Although PECR sets out the specific rules for CPs to help end users manage information relating to their privacy, CPs must also be mindful of the access they have to the end users' CLI Data. They should only use their privileged access to this information where its use is essential to the provision of an Electronic Communications Service.
- 4.26 Therefore, this access should be limited to those staff for whom it is essential, for example for technical management of the network and/or account and, in co-operation with the relevant authorities, for emergency calls and the tracing of malicious calls and similar activities.
- 4.27 CPs must respect the privacy of callers who have elected to prevent the display of their line identities by not exploiting this information for telemarketing or any commercial purpose other than billing and repair.
- 4.28 Furthermore, CPs must ensure that where callers have chosen to prevent the display of their line identities, the Network Number and Presentation Number should not be passed on to a party who is not a CP.

5. Requirements for Network Numbers and Presentation Numbers

- 5.1 Section 4 of this document sets out guidance relating to CLI Data. The CLI that is displayed to the call recipient is the Presentation Number representing the identity of the caller. All calls must also be associated with a Network Number, which identifies the origin of the call. Where the caller has not selected to use a different number for display to the recipient of the call, the Presentation Number will be the same as the Network Number. For the connected line (COL), the number that is displayed to the party making the call represents the destination of the call.

Network Numbers

- 5.2 The Network Number must be a line identity that comprises a unique E.164 number (or from which that number may be reconstructed) that unambiguously identifies the line identity of:
- the fixed access ingress to, or egress from, a Public Electronic Communications Network, i.e. the Network Termination Point (NTP);
 - a Subscriber or terminal/telephone that has non-fixed access to a Public Telephone Network, i.e. the line identity that has been allocated to an individual subscription or terminal/telephone with a non-fixed access to the public network; or
 - the first known UK PECN (or a node within that PECN) in the call path. This should only be used where the first known UK PECN does not reasonably trust the CLI Data that is being provided or the CLI Data is not available. In these circumstances, the privacy marking provided alongside the CLI should be marked as 'unavailable'.
- 5.3 The authenticity of a Network Number is guaranteed as the number must be one which has been provided by the originating network and it is a number that has been allocated to the originating network provider, or has been ported to the originating provider. This number should not be changed by other CPs in the call path.

Presentation Numbers

- 5.4 The Presentation Number is a number nominated or provided by the caller that can identify that caller and be used to make a return or subsequent call. In the UK, the industry has recognised a number of scenarios where Presentation Numbers may be provided, as a commercial service, to meet differing customer calling requirements. Where the party who has been allocated that number gives permission for multiple callers to use that number, we would expect the party allocated the number to keep records of who they have given permission to use the number, to aid in call tracing requests.
- 5.5 Unlike a Network Number, a Presentation Number will not necessarily identify a call's point of ingress to a public network. However, it may carry other useful information. The requirements of a Presentation Number are that:

- It must be a valid number, i.e. be a number which complies with the International public telecommunication numbering plan (Recommendation ITU-T E.164). Where a UK number is used, it must be a number that is designated as a 'Telephone Number available for Allocation' in the National Telephone Numbering Plan and be shown as allocated in the National Numbering Scheme.
- It must be a dialable number, i.e. a number that is in service and can be used to make a return or subsequent call;
- It must uniquely identify the caller (which can be an individual or an organisation), i.e. be a number that the user has been given authority to use (either because it is a number that has been allocated to the user or because the user has been given permission (either directly or indirectly) to use the number by a third party who has been allocated that number); and
- It must not be a number that connects to a Premium Rate Service (e.g. prefixed 09), or to a revenue sharing number that generates an excessive or unexpected call charge (NB the exploitation of a Presentation Number to generate revenue sharing calls may constitute persistent misuse of an Electronic Communications Network or Electronic Communications Service).

5.6 Where additional verification is needed to demonstrate that the caller has permission to use the number, the originating network could demonstrate this in the form of a contract between the caller and the third party who has been allocated that number.

Guidance on the use of Network and Presentation Numbers

5.7 There are a number of scenarios where Presentation Numbers may be provided, as a commercial service, to meet differing customer calling requirements. Examples of different types of Presentation Number are listed below.

Types of Presentation Number

Type 1

5.8 A Presentation Number is generated by the subscriber's network provider. The number is stored in the network and applied to an outgoing call at the originating node in the public network by the provider. Because the number is applied by network equipment there is no need for it to be verified each time a call is made – instead the level of authenticity will depend on the checks made by a network provider that a subscriber is entitled to use a particular Presentation Number.

Type 2

5.9 A Presentation Number which identifies a caller's extension number behind a DDI switchboard. Although the number or partial number is generated by the user's own equipment, the network provider is able to check that it falls within the range and length allocated to a particular subscriber. In this way the authenticity of the number may be ensured. It should be noted that some network providers classify Type 2 Presentation

Numbers as network numbers (especially where the full number is constituted at the local exchange). This type of number is considered to carry sufficient authenticity to be classified as a network number and is carried as such by some networks.

Type 3

- 5.10 A Presentation Number limited to the far-end break out scenario where a call's ingress to the public network may be geographically remote from where it was originated. The number is generated by the user's equipment and is not capable of being subjected to network verification procedures. Verification is based on a contract between the subscriber and the network provider in which the subscriber gives an undertaking that only authentic presentation numbers will be generated.

Type 4

- 5.11 A Presentation Number available for the onward transmission of the originating number where a call breaks into a private network and breaks out again before termination, as in a DISA¹⁷ scenario. On the break out leg the number is generated by the user's equipment although it will have already been verified in consequence of having been delivered to the private network. To maintain the verification it is necessary to ensure that the number submitted by the private network is the number that was received.
- 5.12 Network providers wishing to offer a Type 4 service will require a contractual commitment from customers that they will only submit CLIs that have been received from the public network.

Type 5

- 5.13 Presentation numbers that identify separate groups of callers behind a private network switch wishing to send different outgoing CLIs. A typical scenario is a call centre making calls on behalf of more than one client. Type 5 Presentation Numbers are generated by the user's equipment. Subscribers will need to enter into a similar contractual commitment with their network providers as for Type 1 Presentation Numbers – that they are entitled to use the numbers they have selected.

¹⁷ Direct Inward System Access

6. Calling Line Identification and calls to the Emergency Services

- 6.1 General Condition A3.5 requires all Regulated Providers to make available Caller Location Information when a caller makes a call to the emergency numbers 999 or 112. To discharge this obligation on behalf of the Regulated Provider the 999/112 Call Handling Agency (CHA) with whom they have contracted to process emergency calls, will, for all types of call, need the Network CLI of the call. The CHA will use this Network CLI as a reference with which to interrogate either a database of pre-provided location information or other systems which can identify the caller's location in real-time.
- 6.2 When an emergency call is initiated from their network, all Regulated Providers must supply the relevant CLI Data and include as a minimum the Network CLI from which the call originated.

A1. Glossary

Anonymous Call Reject (ACR)	Where the called party has opted to reject calls where the caller has chosen to prevent the display of their CLI Data.
Calling Line Identification (CLI)	Calling Line Identification is the data that is provided with a telephone call about the caller. It consists of the caller's line identity along with a privacy marking, which indicates whether the number can be shared with the recipient of the call.
Calling Line Identification (CLI) facilities	These are the facilities by which the telephone number of a calling party is presented to the called party prior to the call being established.
CLI Data	<p>CLI Data means the contents of all signalling messages which can be used between Communications Providers and/or between Communications Providers and End-Users to signal the origin of the call and/or the identity of the calling party, including any associated privacy markings.</p> <p>It is comprised of a mandatory Network CLI, an optional Presentation CLI and respective privacy information (which indicates what the call originator is prepared to have displayed to the called party). Privacy information is overridden in the case of calls to the emergency services.</p>
Connected Line Identity (COL)	Connected Line Identity is the data that is provided with a telephone call about the called party. It consists of the called party's line identity along with a privacy marking, which indicates whether the number can be shared with the caller.
Network Number	The Network Number is a telephone number that unambiguously identifies the line identity of the fixed access ingress to or egress from a Public Telephone Network or a subscriber or terminal/telephone that has non-fixed access to a Public Telephone Network. For CLI, it can also be the first known Public Electronic Communication Network in the call path, where the first known UK PECN does not reasonably trust the CLI Data that is being provided or the CLI Data is not available.
Network Termination Point	This is the physical point at which a subscriber is provided with access to a Public Electronic Communications Network and can be identified by means of a specific network address, which may be linked to the Telephone Number or name of a Subscriber.
NICC	NICC is the UK telecoms industry standards forum that develops interoperability standards for UK communications networks.

Presentation Number	The Presentation Number is a number nominated or provided by the caller that can identify that caller or be used to make a return or subsequent call. It may not necessarily identify the line identity of the geographic source of the call.
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