



SLOVENSKI STANDARD
SIST-TS ETSI/TS 102 657 V1.20.1:2018
01-februar-2018

Zakonito prestrezanje (LI) - Ravnanje z zadržanimi podatki - Izročilni vmesnik za zahtevo in izročanje zadržanih podatkov

Lawful Interception (LI) - Retained data handling - Handover interface for the request and delivery of retained data

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Ta slovenski standard je istoveten z: **ETSI TS 102 657 V1.20.1 (2017-11)**

SIST-TS ETSI/TS 102 657 V1.20.1:2018
<https://standards.iteh.ai/catalog/standards/sist/954847b5-560e-4555-bb58-89539696ae32/sist-ts-etsi-ts-102-657-v1-20-1-2018>

ICS:

33.040.40	Podatkovna komunikacijska omrežja	Data communication networks
35.200	Vmesniška in povezovalna oprema	Interface and interconnection equipment

SIST-TS ETSI/TS 102 657 V1.20.1:2018 en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST-TS ETSI/TS 102 657 V1.20.1:2018

<https://standards.iteh.ai/catalog/standards/sist/934847b5-560e-4353-bb58-89539696ae32/sist-ts-etsi-ts-102-657-v1-20-1-2018>

ETSI TS 102 657 V1.20.1 (2017-11)



**Lawful Interception (LI);
Retained data handling;
Handover interface for the request and
delivery of retained data**

SIST-TS ETSI/TS 102 657 V1.20.1:2018
<https://standards.iteh.ai/catalog/standards/sist/934847b5-560e-4353-bb58-89539696ae32/sist-ts-etsi-ts-102-657-v1-20-1-2018>

Reference

RTS/LI-00148

Keywords

handover, retention

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Important notice

SIST-TS ETSI/TS 102 657 V1.20.1:2018
The present document can be downloaded from:
<https://standards.iteh.ai/catalog/standards/sist/934847b5-560e-4353-bb58-89c3760ae178/sist-102-657-v1-20-1-2018>
<http://www.etsi.org/standards-search>

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the only prevailing document is the print of the Portable Document Format (PDF) version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status.

Information on the current status of this and other ETSI documents is available at

<https://portal.etsi.org/TB/ETSIDeliverableStatus.aspx>

If you find errors in the present document, please send your comment to one of the following services:

<https://portal.etsi.org/People/CommiteeSupportStaff.aspx>

Copyright Notification

No part may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm except as authorized by written permission of ETSI.

The content of the PDF version shall not be modified without the written authorization of ETSI.

The copyright and the foregoing restriction extend to reproduction in all media.

© ETSI 2017.

All rights reserved.

DECT™, **PLUGTESTS™**, **UMTS™** and the ETSI logo are trademarks of ETSI registered for the benefit of its Members.

3GPP™ and **LTE™** are trademarks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

oneM2M logo is protected for the benefit of its Members.

GSM® and the GSM logo are trademarks registered and owned by the GSM Association.

Contents

Intellectual Property Rights	8
Foreword.....	8
Modal verbs terminology.....	8
1 Scope	9
2 References	9
2.1 Normative references	9
2.2 Informative references.....	11
3 Definitions and abbreviations.....	11
3.1 Definitions.....	11
3.2 Abbreviations	12
4 Overview of handover interface.....	14
4.1 Reference model.....	14
4.2 Structure of document and applicable communication domains	15
4.3 Categories of retained data	16
4.4 Handover Interface port 1 (HI-A) and Handover Interface port 2 (HI-B).....	16
4.5 Model used for the RDHI.....	17
5 Handover interface message flows.....	17
5.1 Introduction	17
5.1.1 Summary of this clause.....	17
5.1.2 Message flow modes.....	17
5.1.3 Delivery cases	18
5.1.4 "Active" requests and "closed" requests	18
5.1.5 Errors and failure situations.....	18
5.1.5.1 Error and failure types.....	18
5.1.5.2 Request process failure feedback.....	19
5.1.5.3 Other errors	19
5.1.5.4 Missing messages.....	19
5.1.6 Cancelling a request.....	20
5.1.7 Delivery of results.....	20
5.1.8 State diagram	21
5.1.9 Supplementary Messages.....	22
5.2 Message flows for general situation	22
5.2.1 Delivery of a response	22
5.2.2 Cancellation of request	23
5.2.3 Multi-part delivery	24
5.3 Message flows for Authorized-Organization-initiated scenario.....	25
5.3.1 Delivery of results or a failure response	25
5.3.2 Cancellation of request	26
5.3.3 Multi-part delivery	27
5.4 Message types for HI-A and HI-B.....	28
5.5 HI-A and HI-B addressing.....	29
6 Definition of the elements for retained data messages	29
6.1 Header information.....	29
6.1.1 Use of header information	29
6.1.2 RequestID field specification.....	29
6.1.3 CSP Identifiers.....	30
6.1.3.1 Use of CSP identifiers (CSPID).....	30
6.1.3.2 Third Party CSP Identifier (thirdPartyCSPID).....	30
6.1.4 Timestamp (timeStamp)	30
6.1.5 RequestType (requestType).....	30
6.2 Retained Data response	30
6.2.1 General.....	30

6.2.2	Additional information in response messages.....	31
6.2.2.1	Record number (recordNumber)	31
6.2.2.2	Response status (ResponseStatus).....	31
6.2.3	Volatile information.....	31
6.2.4	Unavailable parameters.....	31
6.3	Retained Data requests	32
6.3.1	Information contained within a request	32
6.3.2	Format of a request	32
6.3.3	Additional information in requests	33
6.3.3.1	Priority of a request.....	33
6.3.3.2	Maximum hits	33
6.3.3.3	Maximum records per batch.....	33
6.3.3.4	Number of records limit.....	34
6.4	Error messages	34
7	Data exchange techniques	34
7.1	General	34
7.2	HTTP data exchange	34
7.2.1	Basic configuration.....	34
7.2.2	Single client/server	35
7.2.3	Mutual client/server	35
7.2.4	Details common to both single and mutual cases	35
7.3	Direct TCP data exchange.....	35
7.3.0	General.....	35
7.3.1	Application layer	36
7.3.2	Transport layer.....	36
7.3.2.1	Introduction.....	36
7.3.2.2	TCP settings.....	36
7.3.3	Network layer	36
7.3.4	Delivery networks.....	36
8	Security Measures	37
8.1	General	37
8.2	Connection Level Security.....	37
8.3	Application Level Security.....	37
8.4	Technical Security Measures.....	38
8.4.1	General.....	38
8.4.2	Connection Level.....	38
8.4.3	Application Level	38
8.4.3.1	Hashes	38
8.4.3.2	Digital Signatures.....	38
8.4.3.3	HI-B Non-Repudiation.....	38
8.4.3.4	Digital Signatures and Message Structure.....	39
Annex A (normative): Data fields		40
A.1	Summary	40
A.1.1	Introduction to data fields.....	40
A.1.2	Choice of data modelling language	40
A.1.3	Overview	40
A.2	Parameter definition for common fields.....	41
A.2.1	RetainedDataHeader.....	41
A.2.1.1	Parameters.....	41
A.2.1.2	RequestID parameters.....	41
A.2.2	RetainedDataPayload	41
A.2.2.1	RequestMessage parameters	41
A.2.2.2	RequestAcknowledgement parameters	42
A.2.2.3	ResponseMessage parameters.....	42
A.2.2.4	GetStatusMessage parameters	42
A.2.2.5	StatusMessage parameters	42
A.2.2.6	ErrorMessage parameters	43
A.2.3	GenericSubscriberInfo.....	43

A.2.3.1	Parameters.....	43
A.2.3.2	OrganizationInfo parameters	43
A.2.3.3	IndividualInfo parameters.....	44
A.2.4	PaymentDetails.....	44
A.3	ASN.1 definitions.....	45
A.3.1	General	45
A.3.1.1	ASN.1 syntax tree.....	45
A.3.1.2	General remarks on ASN.1	45
A.3.2	ASN.1 Definitions for message headers.....	46
A.3.2.1	Message wrappers.....	46
A.3.2.2	Message headers	46
A.3.3	ASN.1 definitions for common fields.....	51
A.3.4	Schematic representation of top level ASN.1	55
Annex B (normative): Service-specific details for telephony services.....		57
B.1	Scope.....	57
B.2	Telephony fields.....	57
B.2.1	General	57
B.2.2	Telephony Subscriber.....	57
B.2.2.0	General.....	57
B.2.2.1	subscriber ID.....	57
B.2.2.2	genericSubscriberInfo	58
B.2.2.3	telephonySubscriberInfo	58
B.2.2.4	subscribedTelephonyServices.....	58
B.2.2.4.1	Description.....	58
B.2.3	Telephony Billing Details.....	59
B.2.3.0	General.....	59
B.2.3.1	BillingRecords	59
B.2.4	TelephonyServiceUsage	60
B.2.4.1	Parameters.....	60
B.2.4.2	PartyInformation.....	60
B.2.4.3	SMSInformation	61
B.2.4.4	MmsInformation	61
B.2.5	TelephonyDevice.....	61
B.2.5.1	General.....	61
B.2.6	TelephonyNetworkElement.....	62
B.2.6.1	General.....	62
B.2.6.2	Location parameters.....	62
B.2.6.2.1	General	62
B.2.6.2.2	GSM Location Information.....	63
B.2.6.2.3	UMTS Location Information	64
B.2.6.2.4	Extended Location	64
B.2.6.3	TransmitterDetails parameters	64
B.2.6.3.1	General	64
B.3	ASN.1 definitions for telephony	64
B.4	Schematic view of ASN.1 definitions	78
Annex C (normative): Service-specific details for asynchronous message services.....		80
C.1	Scope.....	80
C.2	Descriptions.....	80
C.2.1	General	80
C.2.2	MsgSubscriber.....	81
C.2.2.0	General.....	81
C.2.2.1	MsgSubscriberID	81
C.2.2.2	MsgStore.....	81
C.2.2.3	MsgStoreID.....	81
C.2.2.4	MsgAddress	81
C.2.2.5	MsgProviderID	81

C.2.3	MsgServiceUsage	82
C.2.3.0	General	82
C.2.3.1	MsgTransmission	82
C.2.3.2	MsgStoreOperation	82
C.2.4	MsgBillingDetails parameters	83
C.2.4.0	General	83
C.2.4.1	MsgBillingRecords	83
C.3	ASN.1 definitions for asynchronous message services	83
C.4	Schematic view of ASN.1 definitions	87
Annex D (normative): Service-specific details for synchronous multi-media services		88
D.1	Scope	88
D.2	Multimedia fields	88
D.2.1	General	88
D.2.2	Multimedia Subscriber	88
D.2.2.0	General	88
D.2.2.1	subscriberID	89
D.2.2.2	genericSubscriberInfo	89
D.2.2.3	multimediaSubscriberInfo	89
D.2.2.4	subscribedMultimediaServices	89
D.2.2.4.1	Description	89
D.2.3	MultimediaBillingDetails	90
D.2.3.1	MultimediaBillingDetails	90
D.2.3.2	MultimediaBillingAddress	90
D.2.3.3	MultimediaBillingRecords	91
D.2.4	Multimedia ServiceUsage	91
D.2.4.1	Parameters	91
D.2.4.2	PartyInformation	92
D.2.4.3	IMSInformation	92
D.2.4.4	MediaComponents	93
D.3	ASN.1 definitions for Multimedia	93
D.4	Schematic view of ASN.1 definitions	99
Annex E (normative): Service-specific details for network access services		101
E.1	Scope	101
E.2	Descriptions	101
E.2.1	General	101
E.2.2	NASubscriber	101
E.2.3	NAServiceSubscription	102
E.2.4	NAServiceUsage	102
E.2.5	NADevice	105
E.2.6	NANwElement	106
E.2.7	NABillingDetails	106
E.3	ASN.1 definitions for network access services	106
E.4	Schematic view of ASN.1 definitions	115
Annex F (informative): Basic set of search routines for Retained Data		116
F.1	Example set of search routines	116
F.1.1	Introduction	116
F.1.2	Summary of search case	116
F.1.3	Subscriber records	116
F.2	Telephony data	117
F.2.1	Telephony subscriber	117
F.2.2	Telephony billing details	117
F.2.3	Telephony service usage	117

F.2.4	Telephony network element	117
F.3	Messaging data	118
F.3.1	Message subscriber.....	118
F.3.2	Message service usage.....	118
F.4	Network Access data	118
F.4.1	NA subscriber.....	118
F.4.2	NA service usage.....	119
Annex G (informative): Examples of search routines		120
G.1	Introduction	120
G.2	Example for telephony subscriber query in clause F.2.1.....	120
G.3	Example for telephony service usage query in clause F.2.3.....	121
Annex H (informative): Further information on data categories.....		122
H.1	General	122
H.2	Further information on subscriber data	122
H.2.1	Subscriber data requests	122
H.2.2	Generic subscriber data records.....	122
H.2.3	Service Specific Subscriber Reply Data	123
H.3	Further information on usage data.....	123
H.3.1	Usage requests	123
H.3.2	Usage data categories	124
H.3.3	Usage: Traffic Data (Reply)	124
H.3.4	Usage: Traffic Data related information (Reply).....	124
H.3.5	Usage: communication independent user activities (Reply).....	124
H.3.6	Usage: network Activity Data (Reply)	124
H.4	Further information on network element data	125
H.4.1	Network element requests	125
H.4.2	Network Configuration Data Reply Data	125
Annex I (informative): Manual techniques.....		126
Annex J (informative): Single versus multi-part deliveries		127
J.1	General	127
J.2	Criteria for multi-part delivery	127
J.3	Subscriptions into the future.....	128
Annex K (informative): Change Request History.....		129
History	132

Intellectual Property Rights

Essential patents

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "*Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards*", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<https://ipr.etsi.org/>).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Trademarks

The present document may include trademarks and/or tradenames which are asserted and/or registered by their owners. ETSI claims no ownership of these except for any which are indicated as being the property of ETSI, and conveys no right to use or reproduce any trademark and/or tradename. Mention of those trademarks in the present document does not constitute an endorsement by ETSI of products, services or organizations associated with those trademarks.

Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Lawful Interception (LI).

The ASN.1 module and XML schema are also available as an electronic attachment to the original document from the ETSI site (see details in clause A.3.1.2).

[SIST-TS ETSI/TS 102 657 V1.20.1:2018](https://standards.iteh.ai/catalog/standards/sist/934847b5-560e-4353-bb58-89f39696e32/sist-ts-etsi-ts-102-657-v1-20-1-2018)

[https://standards.iteh.ai/catalog/standards/sist/934847b5-560e-4353-](https://standards.iteh.ai/catalog/standards/sist/934847b5-560e-4353-bb58-89f39696e32/sist-ts-etsi-ts-102-657-v1-20-1-2018)

[bb58-89f39696e32/sist-ts-etsi-ts-102-657-v1-20-1-2018](https://standards.iteh.ai/catalog/standards/sist/934847b5-560e-4353-bb58-89f39696e32/sist-ts-etsi-ts-102-657-v1-20-1-2018)

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

1 Scope

The present document is based on requirements from ETSI TS 102 656 [2].

The present document contains handover requirements and a handover specification for the data that is identified in national legislations on Retained Data.

The present document considers both the requesting of retained data and the delivery of the results.

The present document defines an electronic interface. An informative annex describes how this interface may be adapted for manual techniques. Apart from in annex I, the present document does not consider manual techniques.

2 References

2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <https://docbox.etsi.org/Reference>.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

STANDARD PREVIEW
(standards.iteh.ai)

The following referenced documents are necessary for the application of the present document.

- SIST-TS ETSI/TS 102 657 V1.20.1:2018
- [1] Void. <https://standards.iteh.ai/catalog/standards/sist/934847b5-560e-4353-1152-89539696a32/sist-ts-etsi-ts-102-657-v1-20-1-2018>
- [2] ETSI TS 102 656: "Lawful Interception (LI); Retained Data; Requirements of Law Enforcement Agencies for handling Retained Data".
- [3] ETSI TS 102 232-1: "Lawful Interception (LI); Handover Interface and Service-Specific Details (SSD) for IP delivery; Part 1: Handover specification for IP delivery".
- [4] ISO 3166-1: "Codes for the representation of names of countries and their subdivisions --Part 1: Country codes".
- [5] ISO 4217: "Codes for the representation of currencies".
- [6] ETSI TS 101 671: "Lawful Interception (LI); Handover interface for the lawful interception of telecommunications traffic".

NOTE: Periodically ETSI TS 101 671 is published as ETSI ES 201 671. A reference to the latest version of the TS as above reflects the latest stable content from ETSI/TC LI.

- [7] ETSI EN 300 356 (all parts): "Integrated Services Digital Network (ISDN); Signalling System No.7 (SS7); ISDN User Part (ISUP) version 4 for the international interface".
- [8] ETSI TS 100 974: "Digital cellular telecommunications system (Phase 2+); Mobile Application Part (MAP) specification (3GPP TS 09.02)".
- [9] ETSI TS 124 008: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Mobile radio interface Layer 3 specification; Core network protocols; Stage 3 (3GPP TS 24.008)".
- [10] Void.
- [11] ETSI TS 133 108: "Universal Mobile Telecommunications System (UMTS); LTE; 3G security; Handover interface for Lawful Interception (LI) (3GPP TS 33.108)".

- [12] ETSI TS 101 109 (V7.2.0): "Digital cellular telecommunications system (Phase 2+); Universal Geographical Area Description (GAD) (3GPP TS 03.32 version 7.2.0 Release 1998)".
- [13] FIPS PUB 186-4: "Digital Signature Standard (DSS)".
- [14] IETF RFC 7230: "Hypertext Transfer Protocol (HTTP/1.1): Message Syntax and Routing".
- [15] IETF RFC 2818: "HTTP Over TLS".
- [16] ETSI TS 123 040: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Technical realization of the Short Message Service (SMS) (3GPP TS 23.040)".
- [17] IETF RFC 793: "Transmission Control Protocol".
- [18] IETF RFC 5681: "TCP Congestion Control".
- NOTE: IETF RFC 5681 obsoletes IETF RFC 2581: "TCP Congestion Control".
- [19] IETF RFC 6298: "Computing TCP's Retransmission Timer".
- NOTE: IETF RFC 6298 obsoletes IETF RFC 2988: "Computing TCP's Retransmission Timer".
- [20] IETF RFC 1122: "Requirements for Internet Hosts - Communication Layers".
- [21] IETF RFC 791: "Internet Protocol".
- [22] ETSI ES 282 002: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN Emulation Sub-system (PES); Functional architecture".
- [23] IETF RFC 2822: "Standard for the format of ARPA internet text messages".
- [24] IETF RFC 5322: "Internet Message Format".
- NOTE: IETF RFC 5322 obsoletes IETF RFC 2822: "Internet Message Format".
- [25] ETSI TS 123 228: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; IP Multimedia Subsystem (IMS); Stage 2 (3GPP TS 23.228)".
- [26] IETF RFC 3261: "SIP: Session Initiation Protocol".
- [27] IETF RFC 4506: "XDR: External Data Representation Standard".
- [28] ISO 13616-1:2007: "Financial services -- International bank account number (IBAN) -- Part 1: Structure of the IBAN".
- [29] ISO 9362:2014: "Banking -- Banking telecommunication messages - Business identifier code (BIC)".
- [30] Void.
- [31] ETSI TS 125 413: "Universal Mobile Telecommunications System (UMTS); UTRAN Iu interface Radio Access Network Application Part (RANAP) signalling (3GPP TS 25.413)".
- [32] ETSI TS 129 274: "Universal Mobile Telecommunications System (UMTS); LTE; 3GPP Evolved Packet System (EPS); Evolved General Packet Radio Service (GPRS) Tunnelling Protocol for Control plane (GTPv2-C); Stage 3 (3GPP TS 29.274)".
- [33] ETSI TS 129 061: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN) (3GPP TS 29.061)".

- [34] ETSI TS 129 118: "Universal Mobile Telecommunications System (UMTS); LTE; Mobility Management Entity (MME) - Visitor Location Register (VLR) SGs interface specification (3GPP TS 29.118)".
- [35] ETSI TS 123 272: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Circuit Switched (CS) fallback in Evolved Packet System (EPS); Stage 2 (3GPP TS 23.272)".
- [36] ETSI TS 133 234: "Universal Mobile Telecommunications System (UMTS); LTE; 3G security; Wireless Local Area Network (WLAN) interworking security (3GPP TS 33.234)".
- [37] W3C Recommendation 16 November 1999: "XML Path Language (XPath) Version 1.0".
- [38] ETSI TS 123 008: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Organization of subscriber data (3GPP TS 23.008)".
- [39] ETSI TS 124 229: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3 (3GPP TS 24.229)".
- [40] ISO 639-1:2002: "Codes for the representation of names of languages".
- [41] ISO 3166-2: "Codes for the representation of names of countries and their subdivisions -- Part 2: Country subdivision code".

2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

Not applicable.

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

authorized organization: any authority legally authorized to request or receive retained data e.g. a Law Enforcement Agency

Handover Interface A (HI-A): administrative handover interface comprising requests for information and their responses

Handover Interface B (HI-B): data handover interface comprising the retained data transmission of information

issuing authority: any entity possessing the necessary jurisdiction and authority pursuant to law to compel a service provider to deliver retained subscriber information or traffic data specified in a query

lawful authorization: permission granted to an Authorized Organization under certain conditions to request specified telecommunications retained data and requiring co-operation from a network operator/service provider/access provider

NOTE: Typically, this refers to a warrant or order issued by a lawfully authorized body.

location information: information relating to the geographic, physical or logical location of an identity relating to an interception subject

number: any address (E.164, IP, email, URI) used for routing in a network or in a service on a user level or network/service level

receiving authority: any entity possessing the necessary authority pursuant to law and the technical means to receive retained subscriber information or traffic data delivered by a service provider

request: legal requirement for a Communications Service Provider (CSP) to disclose retained data in accordance with relevant national law

response to request of information: response from the CSP to the authorized organization acknowledging or rejecting a request for information

retained data record: set of data elements for a specific subscriber/user related to a specific service transaction

service transaction: instance of a service given by a CSP to a subscriber/user

service transaction record: set of data elements describing a service transaction (details to be determined)

transmission of information: transmission of retained data from the CSP to the receiving authority

STANDARD PREVIEW
(standards.iteh.ai)

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

ACK	ACKnowledge
ADSL	Asymmetric Digital Subscriber Line
AO	Authorized Organization
APN	Access Point Name
ASCII	American Standard Code for Information Interchange
ASN	Abstract Syntax Notation
BER	Basic Encoding Rules
BIC	Business Identifier Code
CGI	Cell Global Identity
CPE	Customer Premises Equipment
CS	Circuit Switched
CSP	Communications Service Provider
CSPID	CSP Identifier
DR	Data Retention
DSA	Digital Signature Algorithm
DSL	Digital Subscriber Line
DSS	Digital Signature Standard
DVD	Digital Versatile Disc or Digital Video Disc
ECGI	E-UTRAN Cell Global ID
EMS	Enhanced Messaging Service
EPC	Enhanced Packet Core
EPS	Evolved Packet System
GGSN	Gateway GPRS Support Node
GPRS	General Packet Radio Service
GSM	Global System for Mobile communications
GW	GateWay
HI	Handover Interface
HI-A	Handover Interface A

HI-B	Handover Interface B
HTTP	HyperText Transfer Protocol
HTTPS	HyperText Transfer Protocol over Secure Socket Layer
IBAN	International Banking Account Number
ICCID	Integrated Circuit Card ID
ID	IDentifier
IEI	Information Element Identifier
IMAP	Internet Message Access Protocol
IMEI	International Mobile Equipment Identity
IMEISV	IMEI Software Version
IMS	IP Multimedia Subsystem
IMSI	International Mobile Subscriber Identity
IP	Internet Protocol
IPSec	Internet Protocol Security
IRI	Intercept Related Information
ISDN	Integrated Services Digital Network
ISUP	ISDN User Part
LAN	Local Area Network
LEA	Law Enforcement Agency
LI	Lawful Interception
MAC	Media Access Control
MCC	Mobile Country Code
ME	Mobile Equipment
MF-B	Mediation Function B
MME	Mobility Management Entity
MMS	Multimedia Messaging Service
MNC	Mobile Network Code
MS	Mobile Station
MSC	Mobile Switching Centre
MSISDN	Mobile Subscriber ISDN number
MSN	Multiple Subscriber Number
NA	Network Access SIST-TS ETSI/TS 102 657 V1.20.1:2018
NAS	Network Access Server http://www.etsi.org/standards/sist/934847b5-560e-4353-8172/sist-ts-etsi-ts-102-657-v1-20-1-2018
NAT	Network Address Translation http://www.etsi.org/standards/sist/934847b5-560e-4353-8172/sist-ts-etsi-ts-102-657-v1-20-1-2018
PAT	Port Address Translation
PDN	Public Data Network
PDP	Packet Data Protocol
PDU	Protocol Data Unit
PLMN	Public Land Mobile Network
PPP	Point-to-Point Protocol
PS	Packet Switched
PSTN	Public Switched Telephone Network
PUK	Personal Unblocking Key
RAI	Routing Area Identifier
RAT	Radio Access Technology
RD	Retained Data
RDHI	Retained Data Handover Interface
SAI	Service Area Identifier
SC	SMS Centre
SDP	Session Description Protocol
SGSN	Serving GPRS Support Node
SHA	Secure Hash Algorithm
SIM	Subscriber Identity Module
SIP	Session Initiation Protocol
SMS	Short Message Service
SMTP	Simple Mail Transfer Protocol
TAI	Tracking Area Identity
TCP	Transmission Control Protocol
TL	Latency Time
TLS	Transport Layer Security
TR	Time of the Request
TV	TeleVision