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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

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

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Contents

Intellectual Property Rights	9
Foreword.....	9
Modal verbs terminology.....	9
1 Scope	10
2 References	10
2.1 Normative references	10
2.2 Informative references.....	13
3 Definition of terms, symbols and abbreviations.....	13
3.1 Terms.....	13
3.2 Symbols.....	14
3.3 Abbreviations	14
4 Overview of handover interface	17
4.1 Reference model.....	17
4.2 Structure of document and applicable communication domains	18
4.3 Categories of retained data	19
4.4 Handover Interface port 1 (HI-A) and Handover Interface port 2 (HI-B).....	19
4.5 Model used for the RDHI.....	20
5 Handover interface message flows.....	20
5.1 Overview	20
5.1.1 Summary of this clause.....	20
5.1.2 Message flow modes.....	20
5.1.3 Delivery cases.....	21
5.1.4 "Active" requests and "closed" requests	21
5.1.5 Errors and failure situations	21
5.1.5.1 Error and failure types.....	21
5.1.5.2 Request process failure feedback	22
5.1.5.3 Other errors	22
5.1.5.4 Missing messages.....	22
5.1.6 Cancelling a request.....	23
5.1.7 Delivery of results.....	23
5.1.8 State diagram	24
5.1.9 Supplementary Messages.....	25
5.2 Message flows for general situation	25
5.2.1 Delivery of a response	25
5.2.2 Cancellation of request	26
5.2.3 Multi-part delivery	27
5.3 Message flows for Authorized-Organization-initiated scenario.....	28
5.3.1 Delivery of results or a failure response	28
5.3.2 Cancellation of request	29
5.3.3 Multi-part delivery.....	30
5.4 Message types for HI-A and HI-B.....	31
5.5 HI-A and HI-B addressing.....	32
6 Definition of the elements for retained data messages	32
6.1 Header information.....	32
6.1.1 Use of header information	32
6.1.2 RequestID field specification.....	32
6.1.3 CSP Identifiers.....	33
6.1.3.1 Use of CSP Identifiers (CSPID).....	33
6.1.3.2 Third Party CSP Identifier (thirdPartyCSPID).....	33
6.1.4 Timestamp (timeStamp)	33
6.1.5 RequestType (requestType).....	33
6.1.6 RequestFlag (requestFlag).....	33
6.2 Retained Data response	33

6.2.1	General.....	33
6.2.2	Additional information in response messages.....	34
6.2.2.1	Record number (recordNumber).....	34
6.2.2.2	Response status (ResponseStatus).....	34
6.2.3	Volatile information.....	34
6.2.4	Unavailable parameters.....	34
6.3	Retained Data requests.....	35
6.3.1	Information contained within a request.....	35
6.3.2	Format of a request.....	35
6.3.3	Additional information in requests.....	36
6.3.3.1	Priority of a request.....	36
6.3.3.2	Maximum hits.....	36
6.3.3.3	Maximum records per batch.....	36
6.3.3.4	Number of records limit.....	37
6.4	Error messages.....	37
7	Data exchange techniques.....	37
7.1	General.....	37
7.2	HTTP data exchange.....	37
7.2.1	Basic configuration.....	37
7.2.2	Single client/server.....	38
7.2.3	Mutual client/server.....	38
7.2.4	Details common to both single and mutual cases.....	38
7.3	Direct TCP data exchange.....	38
7.3.0	General.....	38
7.3.1	Application layer.....	39
7.3.2	Transport layer.....	39
7.3.2.1	Introduction.....	39
7.3.2.2	TCP settings.....	39
7.3.3	Network layer.....	39
7.3.4	Delivery networks.....	39
8	Security Measures.....	40
8.1	General.....	40
8.2	Connection Level Security.....	40
8.3	Application Level Security.....	40
8.4	Technical Security Measures.....	41
8.4.1	General.....	41
8.4.2	Connection Level.....	41
8.4.3	Application Level.....	41
8.4.3.1	Hashes.....	41
8.4.3.2	Digital Signatures.....	41
8.4.3.3	HI-B Non-Repudiation.....	41
8.4.3.4	Digital Signatures and Message Structure.....	42
Annex A (normative): Data fields.....		43
A.1	Summary.....	43
A.1.1	Introduction to data fields.....	43
A.1.2	Choice of data modelling language.....	43
A.1.3	Overview.....	43
A.1.4	Backwards Compatibility.....	44
A.2	Parameter definition for common fields.....	44
A.2.1	RetainedDataHeader.....	44
A.2.1.1	Parameters.....	44
A.2.1.2	RequestID parameters.....	44
A.2.2	RetainedDataPayload.....	44
A.2.2.1	RequestMessage parameters.....	44
A.2.2.2	RequestAcknowledgement parameters.....	45
A.2.2.3	ResponseMessage parameters.....	45
A.2.2.4	GetStatusMessage parameters.....	45
A.2.2.5	StatusMessage parameters.....	46

A.2.2.6	ErrorMessage parameters	46
A.2.3	GenericSubscriberInfo.....	46
A.2.3.1	Parameters.....	46
A.2.3.2	OrganizationInfo parameters	46
A.2.3.3	IndividualInfo parameters.....	47
A.2.3.4	ContractInformation parameters	48
A.2.4	PaymentDetails.....	48
A.3	ASN.1 definitions.....	49
A.3.1	General	49
A.3.1.1	ASN.1 syntax tree.....	49
A.3.1.2	General remarks on ASN.1	49
A.3.2	ASN.1 Definitions for message headers.....	49
A.3.2.1	Message wrappers.....	49
A.3.2.2	Message headers	49
A.3.3	ASN.1 definitions for common fields.....	50
A.3.4	Void.....	50
Annex B (normative): Service-specific details for telephony services		51
B.1	Scope.....	51
B.2	Telephony fields.....	51
B.2.1	General	51
B.2.2	Telephony Subscriber.....	51
B.2.2.0	General.....	51
B.2.2.1	subscriber ID.....	51
B.2.2.2	genericSubscriberInfo	52
B.2.2.3	telephonySubscriberInfo	52
B.2.2.4	subscribedTelephonyServices	52
B.2.2.4.1	Description	52
B.2.3	Telephony Billing Details	53
B.2.3.0	General.....	53
B.2.3.1	BillingRecords	53
B.2.4	TelephonyServiceUsage	54
B.2.4.1	Parameters.....	54
B.2.4.2	PartyInformation.....	54
B.2.4.3	SMSInformation	55
B.2.4.4	MmsInformation	55
B.2.5	TelephonyDevice.....	56
B.2.5.1	General.....	56
B.2.6	TelephonyNetworkElement.....	56
B.2.6.1	General.....	56
B.2.6.2	Location parameters.....	56
B.2.6.2.1	General	56
B.2.6.2.2	GSM Location Information.....	58
B.2.6.2.3	UMTS Location Information	58
B.2.6.2.4	Extended Location	58
B.2.6.3	TransmitterDetails parameters	59
B.2.6.3.1	General	59
B.3	ASN.1 definitions for telephony	59
B.4	Void.....	59
Annex C (normative): Service-specific details for asynchronous message services		60
C.1	Scope.....	60
C.2	Descriptions.....	60
C.2.1	General	60
C.2.2	MsgSubscriber.....	61
C.2.2.0	General.....	61
C.2.2.1	MsgSubscriberID	61
C.2.2.2	MsgStore.....	61

C.2.2.3	MsgStoreID.....	61
C.2.2.4	MsgAddress	61
C.2.2.5	MsgProviderID	62
C.2.2.6	MsgForwardingAddresses	62
C.2.2.7	MsgStoreSubscriberRelatedIDs	62
C.2.3	MsgServiceUsage	62
C.2.3.0	General.....	62
C.2.3.1	MsgTransmission.....	62
C.2.3.2	MsgStoreOperation	62
C.2.4	MsgBillingDetails parameters	63
C.2.4.0	General.....	63
C.2.4.1	MsgBillingRecords	63
C.3	ASN.1 definitions for asynchronous message services	64
C.4	Void.....	64
Annex D (normative): Service-specific details for synchronous multi-media services		65
D.1	Scope	65
D.2	Multimedia fields	65
D.2.1	General	65
D.2.2	Multimedia Subscriber	65
D.2.2.0	General.....	65
D.2.2.1	subscriberID.....	66
D.2.2.2	genericSubscriberInfo	66
D.2.2.3	multimediaSubscriberInfo	66
D.2.2.4	subscribedMultimediaServices	66
D.2.2.4.1	Description	66
D.2.3	MultimediaBillingDetails	67
D.2.3.1	MultimediaBillingDetails	67
D.2.3.2	MultimediaBillingAddress.....	68
D.2.3.3	MultimediaBillingRecords.....	68
D.2.4	Multimedia ServiceUsage	68
D.2.4.1	Parameters.....	68
D.2.4.2	PartyInformation.....	69
D.2.4.3	IMSInformation	70
D.2.4.4	MediaComponents	70
D.2.5	MultimediaDevice	71
D.2.5.1	General.....	71
D.3	ASN.1 definitions for Multimedia.....	71
D.4	Void.....	71
Annex E (normative): Service-specific details for network access services		72
E.1	Scope	72
E.2	Descriptions.....	72
E.2.1	General	72
E.2.2	NASubscriber	72
E.2.3	NAServiceSubscription	73
E.2.4	NAServiceUsage	73
E.2.5	NADevice.....	79
E.2.6	NANwElement	79
E.2.7	NABillingDetails.....	79
E.3	ASN.1 definitions for network access services	80
E.4	Void.....	80
Annex F (informative): Basic set of search routines for Retained Data.....		81
F.1	Example set of search routines	81

F.1.1	Overview	81
F.1.2	Summary of search case	81
F.1.3	Subscriber records	81
F.2	Telephony data	82
F.2.1	Telephony subscriber	82
F.2.2	Telephony billing details	82
F.2.3	Telephony service usage	82
F.2.4	Telephony network element	83
F.3	Messaging data	83
F.3.1	Message subscriber	83
F.3.2	Message service usage	83
F.4	Network Access data	84
F.4.1	NA subscriber	84
F.4.2	NA service usage	84
Annex G (informative): Examples of search routines		85
G.1	Introduction	85
G.2	Example for telephony subscriber query in clause F.2.1	85
G.3	Example for telephony service usage query in clause F.2.3	86
Annex H (informative): Further information on data categories		87
H.1	General	87
H.2	Further information on subscriber data	87
H.2.1	Subscriber data requests	87
H.2.2	Generic subscriber data records	87
H.2.3	Service Specific Subscriber Reply Data	88
H.3	Further information on usage data	88
H.3.1	Usage requests	88
H.3.2	Usage data categories	89
H.3.3	Usage: Traffic Data (Reply)	89
H.3.4	Usage: Traffic Data related information (Reply)	89
H.3.5	Usage: communication independent user activities (Reply)	89
H.3.6	Usage: network Activity Data (Reply)	89
H.4	Further information on network element data	90
H.4.1	Network element requests	90
H.4.2	Network Configuration Data Reply Data	90
Annex I (informative): Manual techniques		91
Annex J (informative): Single versus multi-part deliveries		92
J.1	General	92
J.2	Criteria for multi-part delivery	92
J.3	Subscriptions into the future	93
Annex K (normative): Service-specific details for Edge Computing applications		94
K.1	Overview	94
K.2	Edge Computing fields	94
K.2.1	General	94
K.2.2	Edge Computing Subscriber	94
K.2.2.1	General	94
K.2.2.2	subscriberID	94
K.2.2.3	genericSubscriberInfo	95
K.2.2.4	edgeComputingSubscriberInfo	95

K.2.2.5	subscribedEdgeComputingApplications	95
K.2.2.5.1	Description	95
K.2.3	EdgeComputingApplicationBillingDetails	96
K.2.3.1	EdgeComputingApplicationBillingDetails	96
K.2.3.2	EdgeComputingApplicationBillingRecords	96
K.2.4	EdgeComputingApplicationUsage	98
K.2.4.1	Parameters.....	98
K.2.5	EdgeComputingDevice	99
K.2.5.1	General.....	99
Annex L (informative):	Bibliography	100
Annex M (informative):	Change Request History.....	101
History		105

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[SIST-TS ETSI/ TS 102 657 V2.1.1:2023](https://standards.iteh.ai/catalog/standards/sist/ba49aea9-6c41-4bc5-9d97-39adce1b2d1d/sist-ts-etsi-ts-102-657-v2-1-1-2023)

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Foreword

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

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

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).

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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.

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

- [1] Void.
- [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 code".
- [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: ETSI TS 101 671 is in status "historical" and is not maintained.

- [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; 5G; 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; Digital cellular telecommunications system (Phase 2+) (GSM); 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 186-5](#): "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); LTE; 5G; 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] Void.
- [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 13616-1:2020](#): "Financial services -- International Bank Account Number (IBAN) -- Part 1: Structure of the IBAN".
- NOTE: Used in the attached ASN.1 or XSD documents available in ts_102657v020101p0.zip.
- [29] [ISO 9362:2022](#): "Banking -- Banking Telecommunication Messages -- Business Identifier Code (BIC)".
- NOTE: Used in the attached ASN.1 or XSD documents available in ts_102657v020101p0.zip.
- [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; 5G; 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; 5G; 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)".
- NOTE: Used in the attached ASN.1 or XSD documents available in ts_102657v020101p0.zip.
- [37] [W3C® Recommendation 21 March 2017](#): "XML Path Language (XPath) 3.1".
- [38] [ETSI TS 123 008](#): "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 5G; 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; 5G; IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3 (3GPP TS 24.229)".
- [40] Void.
- [41] [ETSI TS 123 003](#): "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 5G; Numbering, addressing and identification (3GPP TS 23.003)".
- [42] [ETSI TS 138 413](#): "5G; NG-RAN; NG Application Protocol (NGAP) (3GPP TS 38.413)".
- NOTE: Used in the attached ASN.1 or XSD documents available in ts_102657v020101p0.zip.
- [43] [ETSI TS 129 571](#): "5G; 5G System; Common Data Types for Service Based Interfaces; Stage 3 (3GPP TS 29.571)".
- [44] [ETSI TS 136 413](#): "LTE; Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 Application Protocol (S1AP) (3GPP TS 36.413)".
- [45] [ETSI TS 123 501](#): "5G; System architecture for the 5G System (5GS) (3GPP TS 23.501)".
- [46] [ETSI TS 132 291](#): "5G; Telecommunication management; Charging management; 5G system, charging service; Stage 3 (3GPP TS 32.291)".
- [47] [ETSI TS 132 255](#): "5G; Telecommunication management; Charging management; 5G data connectivity domain charging; Stage 2 (3GPP TS 32.255)".
- [48] [ETSI TS 129 520](#): "5G; 5G System; Network Data Analytics Services; Stage 3 (3GPP TS 29.520)".
- [49] [ETSI TS 132 251](#): "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Telecommunication management; Charging management; Packet Switched (PS) domain charging (3GPP TS 32.251)".
- [50] [ETSI TS 137 340](#): "Universal Mobile Telecommunications System (UMTS); LTE; 5G; NR; Multi-connectivity; Overall description; Stage-2 (3GPP TS 37.340)".
- [51] [Recommendation ITU-T Q.850](#): "Usage of cause and location in the Digital Subscriber Signalling System No. 1 and the Signalling System No. 7 ISDN user part".

[52] [Recommendation ITU-T E.164](#): "The international public telecommunication numbering plan".

[53] [GSMA SGP.02](#): "Remote Provisioning Architecture for Embedded UICC Technical Specification".

NOTE: Used in the attached ASN.1 or XSD documents available in ts_102657v020101p0.zip.

[54] [Recommendation ITU-T G.984.1](#): "Gigabit-capable passive optical networks (GPON): General characteristics".

NOTE: Used in the attached ASN.1 or XSD documents available in ts_102657v020101p0.zip.

[55] [IETF RFC 7315](#): "Private Header (P-Header) Extensions to the Session Initiation Protocol (SIP) for the 3GPP".

[56] [ETSI TS 123 558](#): "5G; Architecture for enabling Edge Applications (3GPP TS 23.558)".

[57] [ISO 24165-2](#): "Digital token identifier (DTI) Registration, assignment and structure -- Part 2: Data elements for registration".

[58] [ISO/IEC 10646](#): "Information technology -- Universal coded character set (UCS)".

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. <https://standards.iteh.ai/catalog/standards/sist/ba49aea9-6c41-4bc5-9d97-39adce1b2d1d/sist-ts-etsi-ts-102-657-v2-1-1-2023>

3 Definition of terms, symbols and abbreviations

3.1 Terms

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

Authorized Organization (AO): 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