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Lawful Interception (LI); Handover Interface and Service-Specific Details (SSD) for IP delivery; Part 7: Service-specific details for Mobile Services Reference RTS/LI-00220-7

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Foreword

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

The present document is part 7 of a multi-part deliverable. Full details of the entire series can be found in part 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).

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

Introduction

The ETSI TS 102 232 [i.1] series of standards aims to provide a common delivery interface for lawfully-intercepted material from a wide range of services. The aim of the present document is to increase the range of services to which the ETSI TS 102 232 [i.1] interface applies, by including services from 3GPP TS 33.108 [3] and 3GPP TS 33.128 [6] within the ETSI TS 102 232 [i.1] delivery framework.

1 Scope

Introduction

The present document specifies an approach for the handover of the lawfully-intercepted information that is defined in the two standards: 3GPP TS 33.108 [3] and 3GPP TS 33.128 [6]. The present document uses the handover techniques defined in ETSI TS 102 232-1 [2]. In this way, the present document allows additional services to be delivered through a common interface.

3GPP TS 33.108

The scope of the present document includes the handover of lawfully-intercepted information from the following parts of 3GPP TS 33.108 [3]:

- Intercept Related Information (IRI) and the Content of Communication (CC) from the mobile circuitswitched domain (3GPP TS 33.108 [3], clause 5).
- IRI and CC from the mobile packet-switched domain (3GPP TS 33.108 [3], clause 6).
- IRI and CC from the multi-media domain (3GPP TS 33.108 [3], clause 7).
- IRI and CC from the EPS domain (3GPP TS 33.108 [3], clause 10).
- IRI and CC from the IMS Conference domain (3GPP TS 33.108 [3], clause 11).
- IRI and CC from the IMS-based VoIP domain (3GPP TS 33.108 [3], clause 12).
- IRI from the Proximity Services domain (3GPP TS 33.108 [3], clause 13).
- IRI and CC from the Group Communication System Enablers domain (3GPP TS 33.108 [3], clause 14).

The present document does not override or supersede any specifications or requirements in 3GPP TS 33.108 [3].

3GPP TS 33.128

The scope of the present document includes the handover of lawfully-intercepted information in accordance with 3GPP TS 33.128 [6].

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 102 232-1: "Lawful Interception (LI); Handover Interface and Service-Specific Details (SSD) for IP delivery; Part 1: Handover specification for IP delivery".

[3] 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)".

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- [4] Void.
- [5] Void.
- [6] ETSI TS 133 128: "LTE; 5G; Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Security; Protocol and procedures for Lawful Interception (LI); Stage 3 (3GPP TS 33.128)".
- [7] ETSI TS 103 221-2: "Lawful Interception (LI); Internal Network Interfaces; Part 2: X2/X3".

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.

- [i.1] ETSI TS 102 232 (all parts): "Lawful Interception (LI); Handover Interface and Service-Specific Details (SSD) for IP delivery".
- [i.2] ETSI TS 101 671: "Lawful Interception (LI); Handover interface for the lawful interception of telecommunications traffic".

3 Definition of terms, symbols and abbreviations

3.1 Terms

For the purposes of the present document, the terms given in ETSI TS 102 232-1 [2] and ETSI TS 101 671 [i.2] apply.

3.2 Symbols

Void.

3.3 Abbreviations

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

ASN.1	Abstract Syntax Notation One
CC	Content of Communication
CC-PDU	Content of Communication Protocol Data Unit
CIN	Communications Identity Number
confLIC	Conference LI Correlation
CR	Change Request
CS	Circuit Switched
EPS	Evolved Packet System
GCSE	Group Communications System Enablers
gcseLIC	Group Communications System Enablers LI Correlation
IMS	IP Multimedia Subsystem
IP	Internet Protocol

IPID	Interception Point IDentifier
IRI	Intercept Related Information
LI	Lawful Interception
LI_X2	Lawful Interception Internal Interface 2
LI_X3	Lawful Interception Internal Interface 3
LTE	Long Term Evolution (of UMTS)
MF	Mediation Function (at CSP)
NFID	Network Function Identifier
PDU	Protocol Data Unit
ProSe	Proximity Services
PS	Packet Switched
TC	Technical Committee
TS	Technical Specification
uLIC	UMTS LI Correlation
UMTS	Universal Mobile Telecommunications System
voipLIC	Voice Over IP LI Correlation

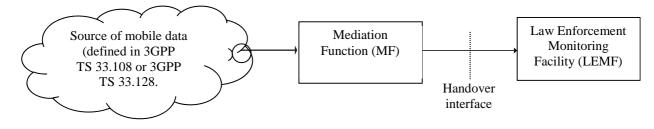
4 General

4.1 Approach

The present document forms part 7 of the ETSI TS 102 232 [i.1] family of standards, in that it is a service-specific component of the ETSI TS 102 232-1 [2] framework.

3GPP TS 33.108 [3] and 3GPP TS 33.128 [6] define the interception behaviour that leads to IRI events on the handover interface, for both the packet data domain and circuit switched domain.

4.2 Reference model





5 3GPP handover Headers, data exchange and networks

5.1 Approach

ETSI TS 102 232-1 [2] describes a technique for data exchange, and specifies the headers that shall be associated with the results of interception. The present document follows ETSI TS 102 232-1 [2] regarding headers and data exchange, and demonstrates how the header fields in ETSI TS 102 232-1 [2] can be populated in a direct and straightforward manner using the interception information available in 3GPP TS 33.108 [3] and 3GPP TS 33.128 [6].

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5.2 Structures

IRI events from 3GPP TS 33.108 [3], for both circuit and packet switched services as per clauses 5 and 6 in 3GPP TS 33.108 [3], are sent using the uMTSIRI element of IRIContents.

CC from CS domain delivery in IP are sent using the CSvoice-CC-PDU element of CCContents, which is the CSvoice-CC-PDU from 3GPP TS 33.108 [3], containing cSvoiceLIC-header and payload.

CC from these packet switched services are sent using the uMTSCC element of CCContents, which is an OCTET STRING.

Alternatively, subject to national agreement, CC from these packet switched services are sent using the uMTSCC-CC-PDU element of CCContents, which is the CC-PDU from 3GPP TS 33.108 [3], containing the uLIC8header and payload.

Clause 9.2 defines the structures for IRI and CC reporting per clause 10 of 3GPP TS 33.108 [3] for EPS services. Clause 15 defines the structures for IRI and CC reporting of 3GPP TS 33.128 [6] defined EPS services.

CC and IRI PDUs formatted according to 3GPP TS 33.128 [6] are sent using the threeGPP33128DefinedCC and threeGPP33128DefinedIRI elements of CCContents and IRIContents respectively.

6 3GPP handover Intercept Related Information (IRI) and Content of Communication (CC)

6.1 Definition of IRI events and CC

IRI events are defined as per 3GPP TS 33.108 [3] for both circuit and packet switched services as per clauses 5 and 6 in 3GPP TS 33.108 [3].

6.2 IRI format

IRI events are defined as per 3GPP TS 33.108 [3] for both of these circuit and packet switched services. They are sent using the uMTSIRI element of IRIContents.

Fields which are duplicated in the 3GPP TS 33.108 [3] and ETSI TS 102 232-1 [2] structures should be populated consistently in both structures. Clause A.1 gives guidance on mapping between 3GPP TS 33.108 [3] elements and ETSI TS 102 232-1 [2] elements for IRI.

6.3 CC format

CC from these packet switched services are sent using the uMTSCC element CCContents, which is an OCTET STRING. The OCTET STRING will be as defined in the payload element of the CC-PDU structure in 3GPP TS 33.108 [3], clause B.4.

Alternatively, subject to national agreement, CC from these packet switched services are sent using the uMTSCC-CC-PDU element of CCContents, which is the CC-PDU from 3GPP TS 33.108 [3], containing the uLIC-header and payload.

CC from CS domain delivery in IP are sent using the CSvoice-CC-PDU element of CCContents, which is the CSvoice-CC-PDU from 3GPP TS 33.108 [3], containing cSvoiceLIC-header and payload.

The information in the cSvoiceLIC-header element of CSvoice-CC-PDU will be used to populate the header information in the LI-PS-PDU structure of ETSI TS 102 232-1 [2]. Clause A.1 gives guidance on the mapping between these elements.

The information in the uLIC-header element of CC-PDU will be used to populate the header information in the LI-PS-PDU structure of ETSI TS 102 232-1 [2]. Clause A.1 gives guidance on the mapping between these elements.

7 Void

8 Void

9 EPS Headers, data exchange and networks

9.1 Approach

ETSI TS 102 232-1 [2] describes a technique for data exchange, and specifies the headers that shall be associated with the results of interception. The present document follows ETSI TS 102 232-1 [2] regarding headers, data exchange and networks demonstrates how the header fields in ETSI TS 102 232-1 [2] can be populated in a direct and straightforward manner using the interception information available in 3GPP TS 33.108 [3].

9.2 Structures

IRI events from 3GPP TS 33.108 [3], for EPS services, are sent using the ePSIRI element of IRIContents.

CC from EPS services is sent using the ePSCC element of CCContents, which is an OCTET STRING.

Alternatively, subject to national agreement, CC from EPS services are sent using the ePSCC-CC-PDU element of CCContents, which is the CC-PDU from 3GPP TS 33.108 [3], containing the uLIC-header and payload.

10 EPS Intercept Related Information (IRI) and Content of Communication (CC)

10.1 Definition of IRI events and CC

IRI events are defined as per 3GPP TS 33.108 [3].

10.2 IRI format

IRI events for EPS services are defined as per clause 10 of 3GPP TS 33.108 [3]. They are sent using the ePSIRI element of IRIContents.

11

Fields which are duplicated in the 3GPP TS 33.108 [3] and ETSI TS 102 232-1 [2] structures should be populated consistently in both structures. Clause A.1 gives guidance on mapping between 3GPP TS 33.108 [3] elements and ETSI TS 102 232-1 [2] elements for IRI.

10.3 CC format

CC from EPS is sent using the ePSCC element of CCContents, which is an OCTET STRING. The OCTET STRING will be as defined in the payload element of the CC-PDU structure in 3GPP TS 33.108 [3], clause B.10.

Alternatively, subject to national agreement, CC from EPS services are sent using the ePSCC-CC-PDU element of CCContents, which is the CC-PDU from 3GPP TS 33.108 [3], containing the uLIC-header and payload.

The information in the uLIC-header element of CC-PDU will be used to populate the header information in the LI-PS-PDU structure of ETSI TS 102 232-1 [2]. Clause A.1 gives guidance on the mapping between these elements.

11 IMS Conference Intercept Related Information (IRI) and Content of Communication (CC)

11.1 Definition of IRI events and CC

IRI events are defined as per 3GPP TS 33.108 [3].

11.2 IRI format

IRI events for IMS Conference services are defined as per clause 11 of 3GPP TS 33.108 [3]. They are sent using the confIRI element of IRIContents.

Fields which are duplicated in the 3GPP TS 33.108 [3] and ETSI TS 102 232-1 [2] structures should be populated consistently in both structures. Clause A.1 gives guidance on mapping between 3GPP TS 33.108 [3] elements and ETSI TS 102 232-1 [2] elements for IRI.

11.3 CC format

CC from IMS Conference services are sent using the Conf-CC-PDU element of CCContents, which is the Conf-CC-PDU from 3GPP TS 33.108 [3], containing the confLIC-header and payload.

The information in the confLIC-header element of Conf-CC-PDU will be used to populate the header information in the LI-PS-PDU structure of ETSI TS 102 232-1 [2]. Clause A.1 gives guidance on the mapping between these elements.

NOTE: Octet string is not provided as it will break evidential use.

12 IMS-based VoIP Intercept Related Information (IRI) and Content of Communication (CC)

12.1 Definition of IRI events and CC

IRI events are defined as per 3GPP TS 33.108 [3].

12.2 IRI format

IRI events for IMS-based VoIP services are defined as per clause 12 of 3GPP TS 33.108 [3]. They are sent using the ePSIRI element of IRIContents.

12

Fields which are duplicated in the 3GPP TS 33.108 [3] and ETSI TS 102 232-1 [2] structures should be populated consistently in both structures. Clause A.1 gives guidance on mapping between 3GPP TS 33.108 [3] elements and ETSI TS 102 232-1 [2] elements for IRI.

12.3 CC format

CC from IMS-based VoIP services are sent using the Voip-CC-PDU element of CCContents, which is the Voip-CC-PDU from 3GPP TS 33.108 [3], containing the voipLIC-header and payload.

The information in the voipLIC-header element of Voip-CC-PDU will be used to populate the header information in the LI-PS-PDU structure of ETSI TS 102 232-1 [2]. Clause A.1 gives guidance on the mapping between these elements.

NOTE: Octet string is not provided as it will break evidential use.

13 Proximity Services Intercept Related Information (IRI)

13.1 Definition of IRI

IRI events are defined as per 3GPP TS 33.108 [3].

13.2 IRI format

IRI events for Proximity Services (PROSE) are defined as per clause 13 of 3GPP TS 33.108 [3]. They are sent using the proseIRI element of IRIContents.

Fields which are duplicated in the 3GPP TS 33.108 [3] and ETSI TS 102 232-1 [2] structures should be populated consistently in both structures. Clause A.1 gives guidance on mapping between 3GPP TS 33.108 [3] elements and ETSI TS 102 232-1 [2] elements for IRI.

14 Group Communications System Enablers Intercept Related Information (IRI) and Content of Communication (CC)

14.1 Definition of IRI events and CC

IRI events are defined as per 3GPP TS 33.108 [3].

14.2 IRI format

IRI events for Group Communications System Enablers (GCSE) services are defined as per clause 14 of 3GPP TS 33.108 [3]. They are sent using the gcseIRI element of IRIContents.

Fields which are duplicated in the 3GPP TS 33.108 [3] and ETSI TS 102 232-1 [2] structures should be populated consistently in both structures. Clause A.1 gives guidance on mapping between 3GPP TS 33.108 [3] elements and ETSI TS 102 232-1 [2] elements for IRI.

14.3 CC format

CC from Group Communications System Enablers (GCSE) services are sent using the Gcse-CC-PDU element of CCContents, which is the Gcse-CC-PDU from 3GPP TS 33.108 [3], containing the gcseLIC-header and payload.

The information in the gcseLIC-header element of Gcse-CC-PDU will be used to populate the header information in the LI-PS-PDU structure of ETSI TS 102 232-1 [2]. Clause A.1 gives guidance on the mapping between these elements.

NOTE: Octet string is not provided as it will break evidential use.

15 IRI and CC for services defined in 3GPP TS 33.128

15.1 Definition of IRI events and CC

IRI and CC events for 5G-based services and EPS-based services are defined as per 3GPP TS 33.128 [6].

15.2 IRI and CC format

3GPP TS 33.128 [6] defines the format for the contents of the threeGPP33128DefinedIRI and threeGPP33128DefinedCC elements for each IRI and CC event.

15.3 Network Function Identifier

If NFID (as defined in ETSI TS 103 221-2 [7], clause 5.3.7) is available on the LI_X2 and LI_X3 interfaces (as defined in 3GPP TS 33.128 [6]), in order to indicate the Network Function associated with the Point of Interception the NetworkFunctionIdentifier parameter (as defined in ETSI TS 102 232-1 [2]) shall be populated by the MF with the NFID value received over the LI_X2 and LI_X3 interfaces.

15.4 Extended Interception Point Identifier

If IPID (as defined in ETSI TS 103 221-2 [7], clause 5.3.8) is available on the LI_X2 and LI_X3 interfaces (as defined in 3GPP TS 33.128 [6]), in order to indicate the specific Point of Interception the ExtendedInterceptionPointID parameter (as defined in ETSI TS 102 232-1 [2]) shall be populated by the MF with the IPID value received over the LI_X2 and LI_X3 interfaces.

Annex A (normative): ASN.1 for IRI and CC

A.1 Note on integrating ASN.1 structures

A.1.1 Header field mappings

Table A.1 shows how elements of the ETSI TS 102 232-1 [2] PSHeader structure should be populated from information in the 3GPP TS 33.108 [3] IRI-Parameters structure.

ETSI TS 102 232-1 [2] PSHeader element	Source from 3GPP TS 33.108 [3]		
lawfulInterceptionIdentifier	Copied directly from IRI-Parameters.lawfulInterceptionIdentifier		
authorizationCountryCode	Supplied directly by the MF		
communicationIdentifier	See below for individual elements		
networkIdentifier	See below for individual elements		
operatorIdentifier	Copied directly from IRI-Parameters.networkIdentifier.operatorIdentifier		
eTSI671NEID	Copied directly from IRI-Parameters.networkIdentifier Network-Element-Identifier		
communicationIdentityNumber	See clause A.1.2		
deliveryCountryCode	Supplied directly by the MF		
sequenceNumber	Supplied directly by the MF		
timeStamp	Copied from IRI-Parameters.timeStamp. This requires a conversion from HI2Operations.TimeStamp to GeneralizedTime		

Table A.1: 3GPP TS 33.108 [3] to ETSI TS 102 232-1 [2] PSHeader mapping

Table A.2 shows how elements of the ETSI TS 102 232-1 [2] IRIPayload structure should be populated from information in the 3GPP TS 33.108 [3] structures.

Table A.2: 3GPP TS 33.108 [3] to ETSI TS 102 232-1 [2] IRIPayload mapping

ETSI TS 102 232-1 [2] IRIPayload element	Source from 3GPP TS 33.108 [3]	
iRIType	Inferred from UmtsIRIContent or EpsIRIContent or ConfIRIContent or ProSeIRIContent or GcseIRIContent or UmtsCS-IRIsContent	
timeStamp	Copied from IRI-Parameters.timeStamp (assuming no aggregation of PDUs) This requires a conversion from HI2Operations.TimeStamp to GeneralizedTime	
iRIContents	See below for individual elements	
uMTSIRI	See below for individual elements	
iRI-Parameters	Copied directly from IRI-Parameters, if handing over packet domain IRI	
iRI-CS-Parameters	Copied directly from IRI-Parameters, if handing over circuit switched IRI	
ePSIRI	See below for individual elements	
iRI-EPS-Parameters	Copied directly from IRI-Parameters, if handing over EPS IRI See note	
confIRI	See below for individual elements	
iRI-Conf-Parameters	Copied directly from IRI-Parameters, if handing over CONF IRI	
proseIRI	See below for individual elements	
iRI-ProSe-Parameters	Copied directly from IRI-Parameters, if handing over PROSE IRI	
gcselRI	See below for individual elements	
iRI-Gcse-Parameters	Copied directly from IRI-Parameters, if handing over GCSE IRI	
NOTE: EPS IRI is also used for IMS-based VoIP services.		

Table A.3 shows how elements of the ETSI TS 102 232-1 [2] PSHeader structure should be populated from information in the 3GPP TS 33.108 [3] CC-PDU structure.

ETSI TS 102 232-1 [2] PSHeader element	Source from 3GPP TS 33.108 [3]
lawfulInterceptionIdentifier	Copied from CC-PDU.uLIC-header.IIID or Conf-CC-PDU.confLIC-header.IIID or Voip-CC-PDU.voipLIC-header.IIID or Gcse-CC-PDU.gcseLIC-header.IIID or CSvoice-CC-PDU.cSvoiceLIC-header.IIID
authorizationCountryCode	Supplied directly by the MF
communicationIdentifier	See below for individual elements
networkIdentifier	See below for individual elements
operatorIdentifier	Supplied directly by the MF (see 3GPP TS 33.108 [3], clause 5.2.4)
eTSI671NEID	Supplied directly by the MF (see 3GPP TS 33.108 [3], clause 5.2.4)
communicationIdentityNumber	See clause A.1.2
deliveryCountryCode	Supplied directly by the MF
sequenceNumber	Supplied directly by the MF
timeStamp	Copied from CC-PDU.uLIC-header.timeStamp or Conf-CC-PDU.confLIC-header.timeStamp or Voip-CC-PDU.voipLIC-header.timeStamp or Gcse-CC-PDU.gcseLIC-header.timeStamp or CSvoice-CC-PDU.cSvoiceLIC-header.timeStamp This requires a conversion from HI2Operations.TimeStamp to GeneralizedTime

Table A.3: 3GPP TS 33.108 [3] to ETSI TS 102 232-1 [2] PSHeader mapping

Table A.4 shows how elements of the ETSI TS 102 232-1 [2] CCPayload structure should be populated from information in the 3GPP TS 33.108 [3] structures.

ETSI TS 102 232-1 [2] CCPayload element	Source from 3GPP TS 33.108 [3]

Table A.4: 3GPP TS 33.108 [3] to ETSI TS 102 232-1 [2] CCPayload mapping

CCPayload element	Source from 3GPP TS 33.108 [3]
	Copied from CC-PDU.uLIC-header.t-PDU-direction or Conf-CC-PDU.confLIC-header.t-PDU-direction or
novia d Direction	Voip-CC-PDU.voipLIC-header.t-PDU-direction or
payloadDirection	Gcse-CC-PDU.gcseLIC-header.t-PDU-direction or CSvoice-CC-PDU.cSvoiceLIC-header.t-PDU-direction
	This requires a trivial translation between TPDU-direction and
	PayloadDirection enumerated types
	Copied from CC-PDU.uLIC-header.timeStamp or
	Conf-CC-PDU.confLIC-header.timeStamp or
	Voip-CC-PDU.voipLIC-header.timeStamp or
timeStamp	Gcse-CC-PDU.gcseLIC-header.timeStamp or
	CSvoice-CC-PDU.cSvoiceLIC-header.timeStamp
	This requires a conversion from HI2Operations.TimeStamp to
	GeneralizedTime
ccContents	See below for individual elements
uMTSCC	Bytes copied from CC-PDU.payload
uMTSCC-CC-PDU	Copied directly from UMTS CC-PDU (that is UMTS CC-PDU.uLIC-header plus UMTS CC-PDU.payload)
ePSCC	Bytes copied from CC-PDU.payload
ePSCC-CC-PDU	Copied directly from EPS CC-PDU (that is EPS CC-PDU.uLIC-header plus EPS CC-PDU.payload)
	Copied directly from Conf-CC-PDU (that is Conf-CC-PDU.confLICheader
confCC-CC-PDU	plus Conf-CC-PDU.payload)
voipCC-CC-PDU	Copied directly from Voip-CC-PDU (that is Voip-CC-PDU.voipLIC-header
	plus Voip-CC-PDU.payload)
gcseCC-CC-PDU	Copied directly from Gcse-CC-PDU (that is Gcse-CC-PDU.gcseLIC-header
903000 00 1 00	plus Gcse-CC-PDU.payload)
cSvoice-CC-PDU	Copied directly from CSvoice-CC-PDU (that is CSvoice-CC-PDU. cSvoiceLIC-header plus CSvoice-CC-PDU.payload)

A.1.2 CIN allocation

CIN allocation follows ETSI TS 102 232-1 [2], clause 5.2.4. The CIN extension field may be used, if required, using the CorrelationValues field as described in 3GPP TS 33.108 [3].

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Annex B (informative): Change request history

Status of the present document: ETSI TS 102 232-7 Service-specific details for Mobile Services				
TC LI approval Date	Version	Remarks		
January 2008	2.1.1	First publication of the TS after approval by ETSI/TC LI#17 (22-24 January 2008, Como)		
February 2011	2.2.1	Included Change Request: ETSI TS 102 232-7 CR001 (Cat B) Addition of Service-Specific Details for CDMA2000 This CR was approved by TC LI#26 (15-17 February 2011, Sophia Antipolis)		
		Version 2.2.1 prepared by the Rapporteur Included Change Request: ETSI TS 102 232-7 CR002 (Cat B) Introduce changes to accommodate EPS		
May 2012	3.1.1	This CR was approved by TC LI#30 (14-16 May 2012, Amsterdam) Version 3.3.1 prepared by the Rapporteur		
June 2013	3.2.1	Included Change Request: ETSI TS 102 232-7 CR003 (Cat B) to preserve the uLIC header This CR was approved by TC LI #33 (11-13 June 2013, Joensuu)		
February 2016	3.3.1	Version 3.2.1 prepared by the Rapporteur Included Change Request: ETSI TS 102 232-7 004r3 (Cat B) to accommodate the delivery of the 3GPP IMS-based VoIP and IMS Conference Services and Proximity Services (ProSe) and Group Communications System Enablers specified in 3GPP TS 33.108, clauses 11, 12, 13 and 14 This CR was approved by TC LI #41 (10-12 February 2016, Sophia Antipolis) Version 3.3.1 prepared by the Rapporteur		
February 2017	3.4.1	Included Change Request: ETSI 102 232 CR005r1 (Cat F). Table A.4 modified in order to be aligned with clause 12.3 C.C. format This CR was approved by TC LI#44 (30 January - 1 February, Sophia Antipolis)		
February 2018	3.5.1	Included Change Request: ETSI 102 232 CR006r3 (Cat B). modification to take account of changes from SA3LI#67 to have an IP-based CC handover interface This CR was approved by TC LI#47 (5-7 February 2018, New Delhi), version prepared by the Rapporteur		
February 2019	3.6.1	Included Change Request: ETSI TS 102 232 CR007 (Cat B): Inclusion of 33.128 services in part 7 This CR was approved by TC LI#50 (5-7 February 2019, Dubai), version prepared by the Rapporteur		
October 2019	3.7.1	Included Change Request: ETSI TS 102 232-7 CR008 (Cat B): Adapt the introduction and scope This CR was approved by TCLI#52 (15-17 October 2019, Turin), version prepared by the Rapporteur		
July 2020	3.8.1	Included Change Request: ETSI TS 102 232-7 CR009 (Cat F): Correcting reference This CR was approved by TCLI#54-e (June 2020, online), version prepared by the Rapporteur		
		Withdrawn		
September 2021	3.10.1	Included Change Requests: ETSI TS 102 232-7 CR010r3 (Cat C): Network Function ID ETSI TS 102 232-7 CR011r2 (Cat C): Extended Interception Point Identifier		
		These CR were approved by TCLI#57-e (June 2021, online)		

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There CR were approved by	1 TOL 1#50 0 /	Entrugry	2022 online)
There on were approved by	1001#39-6 (rebluary	

History

	Document history		
V2.1.1	March 2008	Publication (Historical)	
V2.2.1	March 2011	Publication (Historical)	
V3.1.1	June 2012	Publication	
V3.2.1	July 2013	Publication	
V3.3.1	March 2016	Publication	
V3.4.1	March 2017	Publication	
V3.5.1	April 2018	Publication	
V3.6.1	April 2019	Publication	
V3.7.1	December 2019	Publication	
V3.8.1	August 2020	Publication	
V3.9.1	July 2021	Publication (Withdrawn)	
V3.10.1	September 2021	Publication	
V3.11.1	March 2022	Publication	