



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

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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).

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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 ETSI TS 133 108 [3], ETSI TS 133 128 [6] and ANSI/J-STD-025-B [4] 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 three standards: ETSI TS 133 108 [3], ETSI TS 133 128 [6] and ANSI/J-STD-025-B [4]. 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.

UMTS/GPRS and EPS - ETSI TS 133 108

The scope of the present document includes the handover of lawfully-intercepted information from the following parts of ETSI TS 133 108 [3]:

- Intercept Related Information (IRI) and the Content of Communication (CC) from the mobile circuit-switched domain (ETSI TS 133 108 [3], clause 5).
- IRI and CC from the mobile packet-switched domain (ETSI TS 133 108 [3], clause 6).
- IRI and CC from the multi-media domain (ETSI TS 133 108 [3], clause 7).
- IRI and CC from the EPS domain (ETSI TS 133 108 [3], clause 10).
- IRI and CC from the IMS Conference domain (ETSI TS 133 108 [3], clause 11).
- IRI and CC from the IMS-based VoIP domain (ETSI TS 133 108 [3], clause 12).
- IRI from the Proximity Services domain (ETSI TS 133 108 [3], clause 13).
- IRI and CC from the Group Communication System Enablers domain (ETSI TS 133 108 [3], clause 14).

The present document does not override or supersede any specifications or requirements in ETSI TS 133 108 [3].

CDMA2000 - ANSI/J-STD-025-B

The scope of the present document includes the handover of lawfully-intercepted information from the following parts of ANSI/J-STD-025-B [4]:

- Call identifying information from the mobile circuit-switched domain (ANSI/J-STD-025-B [4], clause 5.4). Call Content (CC) from the mobile circuit-switched domain is not covered by the present document.
- Communication identifying information (CII) and CC from the mobile packet-switched domain (ANSI/J-STD-025-B [4], clause 5.5).

The present document does not override or supersede any specifications or requirements in ANSI/J-STD-025-B [4].

ETSI TS 133 128

The scope of the present document includes the handover of lawfully-intercepted information in accordance with ETSI TS 133 128 [6]

2 References

2.1 Normative references

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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)".
- [4] TIA/ATIS ANSI/J-STD-025-B (July 2006): "Lawfully Authorized Electronic Surveillance", as amended by ANSI/J-STD-025-B-1 (September 2006): "Lawfully Authorized Electronic Surveillance (LAES) Addendum 1 - Addition of Mobile Equipment Identifier (MEID)" and by ANSI/J-STD-025-B-2 (April 2007): "Lawfully Authorized Electronic Surveillance (LAES) - Addendum 2 - Support for Carrier Identity".
- [5] Public Law 103-414: "Communications Assistance for Law Enforcement Act (CALEA)", US 103rd Congress, 108 STAT. 4279 (October 25, 1994).
- [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 (ETSI TS 133 128)".

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], ETSI TS 101 671 [i.2] and the following apply:

call-identifying information: ANSI/J-STD-025-B [4] states that this term is defined in CALEA Section 102 (2) [5] to be "dialling or signalling information that identifies the origin, direction, destination, or termination of each communication generated or received by a subscriber by means of any equipment, facility, or service of a TSP"

NOTE: This term is always used in expanded format.

3.2 Symbols

Void.

3.3 Abbreviations

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

ASN.1	Abstract Syntax Notation One
ATIS	Alliance for Telecommunications Industry Solutions
CC	Content of Communication

NOTE: This abbreviation is also used by ANSI for the same concept, called "Call Content".

CC-PDU	Content of Communication Protocol Data Unit
CII	Communication-Identifying Information
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
GPRS	General Packet Radio Service
IMS	IP Multimedia Subsystem
IP	Internet Protocol
IRI	Intercept Related Information
LAES	Lawfully Authorized Electronic Surveillance (Committee of ATIS)
LI	Lawful Interception
LTE	Long Term Evolution (of UMTS)
MF	Mediation Function (at CSP)
PDU	Protocol Data Unit
ProSe	Proximity Services
PS	Packet Switched
PTSC	Packet Technologies and Systems Committee (Committee of ATIS)
TC	Technical Committee
TIA	Telecommunications Industry Association
TS	Technical Specification
uLIC	UMTS LI Correlation
UMTS	Universal Mobile Telecommunication 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.

ETSI TS 133 108 [3], ETSI TS 133 128 [6] and ANSI/J-STD-025-B [4] define the interception behaviour that leads to IRI, Communication-Identifying Information (CII) or call-identifying information events on the handover interface, for both the packet data domain and circuit switched domain.

4.2 Reference model

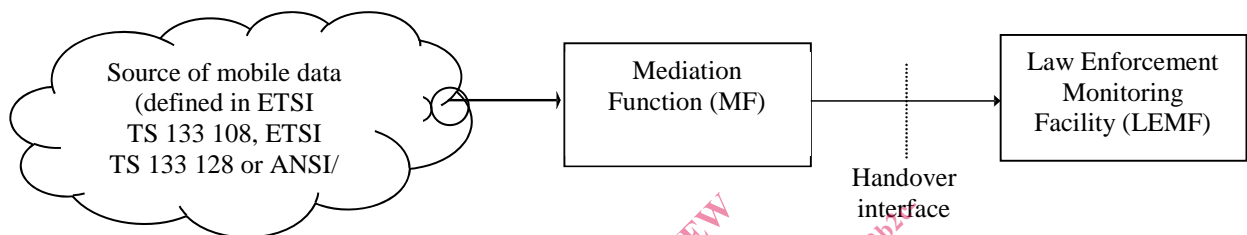


Figure 1: Reference model

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, 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 ETSI TS 133 108 [3] and ETSI TS 133 128 [6].

5.2 Structures

IRI events from ETSI TS 133 108 [3], for both circuit and packet switched services, are sent using the uMTSIRI element of IRIContents.

CC from CS domain delivery in IP are sent using the CSvoice-CC-PDU element of CCContent, which is the CSvoice-CC-PDU from ETSI TS 133 108 [3], containing cSvoiceLIC-header and payload.

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

Alternatively, subject to national agreement, CC from packet switched services are sent using the uMTSCC-CC-PDU element of CCContent, which is the CC-PDU from ETSI TS 133 108 [3], containing the uLIC-header and payload.

CC and IRI PDUs formatted according to ETSI TS 133 128 [6] are sent using the threeGPP33128DefinedCC and threeGPP33128DefinedIRI elements of CCContent and IRIContents respectively.