

# ETSI TS 133 108 V18.0.0 (2024-04)



**Digital cellular telecommunications system (Phase 2+) (GSM);  
Universal Mobile Telecommunications System (UMTS);  
LTE;  
3G security;  
Handover interface for Lawful Interception (LI)  
(3GPP TS 33.108 version 18.0.0 Release 18)**

<https://standards.iteh.ai>

Document Preview

ETSI TS 133 108 V18.0.0 (2024-04)

<https://standards.iteh.ai/catalog/standards/etsi/06d4fbd7-9b20-4937-a995-924c69fc7962/etsi-ts-133-108-v18-0-0-2024-04>



---

**Reference**

RTS/TSGS-0333108vi00

---

**Keywords**

GSM,LTE,SECURITY,UMTS

**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 - APE 7112B  
Association à but non lucratif enregistrée à la  
Sous-Préfecture de Grasse (06) N° w061004871

---

**Important notice**

The present document can be downloaded from:

<https://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 prevailing version of an ETSI deliverable is the one made publicly available in PDF format at [www.etsi.org/deliver](http://www.etsi.org/deliver).

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/CommitteeSupportStaff.aspx>

If you find a security vulnerability in the present document, please report it through our

Coordinated Vulnerability Disclosure Program:

<https://www.etsi.org/standards/coordinated-vulnerability-disclosure>

---

**Notice of disclaimer & limitation of liability**

The information provided in the present deliverable is directed solely to professionals who have the appropriate degree of experience to understand and interpret its content in accordance with generally accepted engineering or other professional standard and applicable regulations.

No recommendation as to products and services or vendors is made or should be implied.

No representation or warranty is made that this deliverable is technically accurate or sufficient or conforms to any law and/or governmental rule and/or regulation and further, no representation or warranty is made of merchantability or fitness for any particular purpose or against infringement of intellectual property rights.

In no event shall ETSI be held liable for loss of profits or any other incidental or consequential damages.

Any software contained in this deliverable is provided "AS IS" with no warranties, express or implied, including but not limited to, the warranties of merchantability, fitness for a particular purpose and non-infringement of intellectual property rights and ETSI shall not be held liable in any event for any damages whatsoever (including, without limitation, damages for loss of profits, business interruption, loss of information, or any other pecuniary loss) arising out of or related to the use of or inability to use the software.

---

**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 2024.  
All rights reserved.

---

# Intellectual Property Rights

## Essential patents

IPRs essential or potentially essential to normative deliverables may have been declared to ETSI. The declarations pertaining to these essential IPRs, if any, are 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 Directives including the ETSI IPR Policy, no investigation regarding the essentiality of IPRs, 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.

**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 a trademark of ETSI registered for the benefit of its Members and of the oneM2M Partners. **GSM®** and the GSM logo are trademarks registered and owned by the GSM Association.

---

## Legal Notice

This Technical Specification (TS) has been produced by ETSI 3rd Generation Partnership Project (3GPP).

The present document may refer to technical specifications or reports using their 3GPP identities. These shall be interpreted as being references to the corresponding ETSI deliverables. (2024-04)

The cross reference between 3GPP and ETSI identities can be found under <https://webapp.etsi.org/key/queryform.asp>.

---

## 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.

# Contents

Intellectual Property Rights .....	2
Legal Notice .....	2
Modal verbs terminology.....	2
Foreword.....	13
Introduction .....	13
1 Scope .....	14
2 References .....	14
3 Definitions and abbreviations.....	18
3.1 Definitions .....	18
3.2 Abbreviations .....	20
4 General .....	22
4.0 Introduction .....	22
4.1 Basic principles for the handover interface .....	22
4.2 Legal requirements .....	23
4.3 Functional requirements .....	23
4.4 Overview of handover interface .....	23
4.4.0 Introduction.....	23
4.4.1 Handover interface port 2 (HI2) .....	24
4.4.2 Handover interface port 3 (HI3) .....	25
4.5 HI2: Interface port for intercept related information.....	25
4.5.0 General.....	25
4.5.1 Data transmission protocols.....	25
4.5.2 Application for IRI (HI2 information).....	26
4.5.3 Types of IRI records .....	26
4.6 Reliability .....	27
5 Circuit-switch domain .....	27
5.0 General .....	27
5.1 Specific identifiers for LI .....	27
5.1.0 Introduction.....	27
5.1.1 Lawful Interception Identifier (LIID) .....	27
5.1.2 Communication Identifier (CID) .....	28
5.1.2.0 General .....	28
5.1.2.1 Network Identifier (NID).....	28
5.1.2.2 Communication Identity Number (CIN) - optional.....	28
5.1.3 CC link identifier (CCLID).....	29
5.1.4 Correlation of CC and IRI .....	29
5.1.5 Usage of Identifiers.....	29
5.2 HI2: interface port for IRI .....	30
5.2.1 Definition of Intercept Related Information .....	30
5.2.2 Structure of IRI records .....	30
5.2.2.0 General .....	30
5.2.2.1 Control Information for HI2.....	31
5.2.2.2 Basic call information .....	31
5.2.2.3 Information on supplementary services, related to a call in progress.....	32
5.2.2.4 Information on non-call related supplementary services.....	32
5.2.3 Delivery of IRI.....	32
5.3 HI3: interface port for Content of Communication .....	37
5.3.0 General.....	37
5.3.1 CS-based Delivery of Content of Communication .....	37
5.3.2 Control information for Content of Communication .....	38
5.3.3 Security requirements at the interface port of HI3.....	39
5.3.3.0 General .....	39

5.3.3.1	LI access verification .....	39
5.3.3.2	Access protection .....	40
5.3.3.3	Authentication .....	40
5.4	LI procedures for supplementary services .....	40
5.4.1	General .....	40
5.4.2	CC link Impact .....	43
5.4.3	IRI Impact, General Principle for Sending IRI records .....	43
5.4.4	Multi party calls - general principles, options A, B .....	43
5.4.4.0	General .....	43
5.4.4.1	CC links for active and non-active calls (option A) .....	43
5.4.4.2	Reuse of CC links for active calls (option B) .....	44
5.4.5	Subscriber Controlled Input (SCI): Activation / Deactivation / Interrogation of Services .....	45
5.5	Detailed procedures for supplementary services .....	45
5.5.1	Advice of Charge services (AOC) .....	45
5.5.2	Call Waiting (CW) .....	45
5.5.2.1	Call Waiting at target: CC links .....	45
5.5.2.2	Call Waiting: IRI records .....	45
5.5.2.2.1	Target is served user .....	45
5.5.2.2.2	Other party is served user .....	45
5.5.3	Call Hold/Retrieve .....	45
5.5.3.1	CC links for active and non-active calls (option A) .....	45
5.5.3.2	Reuse of CC links for active calls (option B) .....	45
5.5.3.3	IRI records .....	46
5.5.3.3.1	Invocation of Call Hold or Retrieve by target .....	46
5.5.3.3.2	Invocation of Call Hold or Retrieve by other parties .....	46
5.5.4	Explicit Call Transfer (ECT) .....	46
5.5.4.1	Explicit Call Transfer, CC link .....	46
5.5.4.2	Explicit Call Transfer, IRI records .....	46
5.5.5	Calling Line Identification Presentation (CLIP) (IRI Records) .....	46
5.5.5.1	Call originated by target (target is served user) .....	46
5.5.5.2	Call terminated at target (other party is served user) .....	46
5.5.6	Calling Line Identification Restriction (CLIR) .....	46
5.5.7	COnnected Line identification Presentation (COLP) .....	47
5.5.7.1	Call terminated at target (target is served user) .....	47
5.5.7.2	Call originated by target (other party is served user) .....	47
5.5.8	COnnected Line identification Restriction (COLR) .....	47
5.5.9	Closed User Group (CUG) .....	47
5.5.10	Completion of Call to Busy Subscriber (CCBS) .....	47
5.5.11	Multi ParTY call (MPTY) .....	47
5.5.11.1	General .....	47
5.5.11.2	IRI records .....	47
5.5.12	DIVersion Services (DIV) .....	47
5.5.12.0	General .....	47
5.5.12.1	Call Diversion by Target .....	48
5.5.12.1.1	Call Diversion by Target, CC links .....	48
5.5.12.1.2	Call Diversion by Target, IRI records .....	48
5.5.12.2	Forwarded Call Terminated at Target .....	48
5.5.12.3	Call from Target Forwarded .....	48
5.5.13	Variants of call diversion services .....	48
5.5.14	SUBaddressing (SUB) .....	49
5.5.15	User-to-User Signalling (UUS) .....	49
5.5.16	Incoming Call Barring (ICB) .....	49
5.5.17	Outgoing Call Barring (OCB) .....	49
5.5.18	Tones, Announcements .....	49
5.6	Functional architecture .....	49
5.7	IP-based handover interface for CC .....	50
5.7.1	General .....	50
5.7.2	Identifiers .....	51
5.7.3	Voice Content Direction .....	52
5.7.4	Payload Description .....	52
5.7.5	Sequence Number .....	52

6	Packet data domain.....	53
6.1	Identifiers .....	53
6.1.0	Introduction.....	53
6.1.1	Lawful interception identifier .....	53
6.1.2	Network identifier.....	53
6.1.3	Correlation number .....	53
6.2	Timing and quality .....	54
6.2.1	Timing .....	54
6.2.2	Quality .....	54
6.2.3	Void.....	54
6.3	Security aspects .....	54
6.4	Quantitative aspects.....	54
6.5	IRI for packet domain.....	55
6.5.0	Introduction.....	55
6.5.1	Events and information .....	61
6.5.1.0	General .....	61
6.5.1.1	REPORT record information .....	61
6.5.1.2	BEGIN record information .....	70
6.5.1.3	CONTINUE record information .....	72
6.5.1.4	END record information .....	74
6.6	IRI reporting for packet domain at GGSN .....	75
6.7	Content of communication interception for packet domain at GGSN.....	75
7	Multi-media domain.....	76
7.0	Introduction .....	76
7.1	Identifiers .....	77
7.1.0	General.....	77
7.1.1	Lawful Interception Identifier (LIID) .....	77
7.1.2	Network identifier.....	78
7.1.3	Correlation number .....	78
7.2	Timing and quality .....	79
7.2.1	Timing .....	79
7.2.2	Quality .....	79
7.2.3	Void.....	79
7.3	Security aspects .....	79
7.4	Quantitative aspects.....	79
7.5	IRI for IMS .....	80
7.5.0	Introduction.....	80
7.5.1	Events and information .....	84
7.6	Correlation indications of IMS IRI with GSN CC at the LEMF .....	88
7.7	Void.....	88
8	3GPP WLAN Interworking.....	88
8.0	General .....	88
8.1	Identifiers .....	88
8.1.1	Overview .....	88
8.1.2	Lawful interception identifier .....	88
8.1.3	Network identifier.....	89
8.1.4	Correlation number .....	89
8.2	Timing and quality .....	89
8.2.1	Timing .....	89
8.2.2	Quality .....	89
8.2.3	Void .....	90
8.3	Security aspects .....	90
8.4	Quantitative aspects.....	90
8.5	IRI for I-WLAN .....	90
8.5.0	Introduction.....	90
8.5.1	Events and information .....	94
8.5.1.1	Overview .....	94
8.5.1.2	REPORT record information .....	94
8.5.1.3	BEGIN record information .....	99
8.5.1.4	END record information .....	101

8.6	CC for I-WLAN .....	102
9	Interception of Multimedia Broadcast/MultiCast Service (MBMS) .....	102
9.1	Identifiers .....	102
9.1.1	Overview .....	102
9.1.2	Lawful interception identifier .....	102
9.1.3	Network identifier.....	103
9.1.4	Correlation number.....	103
9.2	Timing and quality .....	103
9.2.1	Timing .....	103
9.2.2	Quality .....	103
9.2.3	Void.....	103
9.3	Security aspects .....	103
9.4	Quantitative aspects.....	104
9.5	IRI for MBMS.....	104
9.5.0	General.....	104
9.5.1	Events and information.....	106
9.5.1.1	Overview.....	106
9.5.1.2	REPORT record information .....	106
9.5.1.3	BEGIN record information .....	107
9.5.1.4	END record information .....	108
9.6	CC for MBMS.....	109
10	Evolved Packet System (EPS).....	109
10.0	Introduction .....	109
10.1	Identifiers .....	110
10.1.0	Introduction.....	110
10.1.1	Lawful interception identifier .....	110
10.1.2	Network identifier.....	110
10.1.3	Correlation number.....	111
10.2	Timing and quality .....	111
10.2.1	Timing .....	111
10.2.2	Quality .....	111
10.2.3	Void.....	111
10.3	Security aspects .....	111
10.4	Quantitative aspects.....	112
10.5	IRI for evolved packet domain .....	112
10.5.0	Introduction.....	112
10.5.1	Events and information.....	118
10.5.1.0	Introduction.....	118
10.5.1.1	REPORT record information .....	119
10.5.1.2	BEGIN record information .....	132
10.5.1.3	CONTINUE record information .....	135
10.5.1.4	END record information .....	139
10.6	IRI reporting for evolved packet domain at PDN-GW.....	142
10.7	Content of communication interception for evolved packet domain at PDN-GW .....	142
11	3GPP IMS Conference Services.....	143
11.1	Identifiers .....	143
11.1.1	Overview .....	143
11.1.2	Lawful interception identifier .....	143
11.1.3	Network identifier.....	143
11.1.4	Correlation number.....	144
11.2	Timing and quality .....	144
11.2.1	Timing .....	144
11.2.2	Quality .....	144
11.2.3	Void.....	144
11.3	Security aspects .....	144
11.4	Quantitative aspects.....	144
11.5	IRI for IMS Conference Services.....	145
11.5.0	Introduction.....	145
11.5.1	Events and information.....	148
11.5.1.1	Overview.....	148

11.5.1.2	BEGIN record information .....	148
11.5.1.3	CONTINUE record information .....	149
11.5.1.4	END record information .....	152
11.5.1.5	REPORT record information .....	153
11.6	CC for IMS Conference Services .....	154
12	3GPP IMS-based VoIP Services .....	155
12.1	Identifiers .....	155
12.1.1	Overview .....	155
12.1.2	Lawful Interception Identifier .....	155
12.1.3	Network Identifier .....	155
12.1.4	Correlation Number .....	155
12.2	Timing and quality .....	156
12.3	Security aspects .....	156
12.4	Quantitative aspects .....	156
12.5	IRI for IMS-based VoIP .....	156
12.6	CC for IMS-based VoIP .....	156
12.7	VoLTE Roaming .....	157
12.7.1	General .....	157
12.7.2	LI in HPLMN .....	157
12.7.2.1	With S8HR .....	157
12.7.2.2	With LBO .....	157
12.7.3	LI in VPLMN with S8HR .....	157
12.7.4	LI in VPLMN with LBO .....	158
12.8	Roaming Constraints to IMS VoIP/VoLTE LI .....	159
13	Interception of Proximity Services (ProSe) .....	159
13.1	General .....	159
13.1.1	Identifiers .....	159
13.1.1.1	Overview .....	159
13.1.1.2	Lawful interception identifier .....	159
13.1.1.3	Network identifier .....	159
13.1.2	Timing and quality .....	160
13.1.2.1	Timing .....	160
13.1.2.2	Quality .....	160
13.1.3	Security aspects .....	160
13.1.4	Quantitative aspects .....	160
13.2	ProSe Direct Discovery .....	160
13.2.1	General .....	160
13.2.2	Events and information .....	162
13.2.2.1	Overview .....	162
13.2.2.2	REPORT record information .....	162
13.3	ProSe Remote UE communications .....	163
13.3.1	General .....	163
13.3.2	Events and information .....	165
13.3.2.1	Overview .....	165
13.3.2.2	REPORT record information .....	165
13.3.2.3	BEGIN record information .....	167
13.3.2.4	CONTINUE record information .....	168
13.3.2.5	END record information .....	169
14	Invocation of Lawful Interception (LI) for Group Communications System Enablers (GCSE) .....	170
14.1	Background .....	170
14.1.1	Interception at GCS AS versus other nodes .....	170
14.2	GCS AS in Intercepting Operator's Network .....	170
14.2.1	General .....	170
14.2.2	Identifiers .....	170
14.2.2.1	Overview .....	170
14.2.2.2	Lawful Interception Identifier .....	170
14.2.2.3	Network Identifier .....	171
14.2.2.3	Correlation Number .....	171
14.2.3	Timing and quality .....	171
14.2.3.1	Timing .....	171

14.2.3.2	Quality.....	171
14.2.4	Security Aspects .....	171
14.2.4.1	General .....	171
14.2.5	Quantitative Aspects .....	172
14.2.5.1	General .....	172
14.2.6	IRI for GCSE based Communications .....	172
14.2.6.1	General .....	172
14.2.6.2	Events and Event Information.....	174
14.2.6.2.1	Overview .....	174
14.2.6.2.2	BEGIN record information.....	174
14.2.6.2.3	CONTINUE record information.....	176
14.2.6.2.4	END record information.....	178
14.2.7	CC for GCSE based Communications.....	179
14.2.7.1	General .....	179
14.3	GCS AS Outside Intercepting Operator Network .....	179
14.3.1	General.....	179
15	Interception of Messaging Services .....	180
15.1	Overview .....	180
15.2	SMS.....	180
15.2.1	Introduction.....	180
15.2.2	SMS over GPRS/UMTS .....	180
15.2.3	SMS over IMS .....	180
15.3	MMS .....	181
15.3.1	Introduction.....	181
15.3.2	Identifiers .....	181
15.3.2.1	Overview.....	181
15.3.2.2	Lawful Interception Identifier .....	182
15.3.2.3	Correlation Number .....	182
15.3.6	IRI for MMS .....	182
15.3.6.1	General .....	182
15.3.6.2	Events and Event Information.....	186
15.3.6.2.1	Overview .....	186
15.3.6.2.2	REPORT record information.....	187
15.3.7	CC for MMS .....	199
15.3.7.1	General .....	199
16	Cell Site Reporting .....	200
16.1	Overview .....	200
16.2	LI_CELL_INFO Interface.....	201
16.3	Cell Site Reporting in IRI event .....	201
16.4	Cell Site Report .....	202
17	Interception of PTC .....	202
17.1	Capabilities when the PTC service is supported by a CSP.....	202
17.1.0	Introduction.....	202
17.1.1	Lawful interception identifier .....	202
17.1.2	Network identifier.....	203
17.1.3	PTC IRI Events.....	203
17.1.4	CC for PTC-based VoIP .....	203
17.1.5	IRI for PTC based Communications .....	204
17.2	PTC Event Records .....	207
17.2.0	Introduction.....	207
17.2.1	PTC Registration .....	207
17.2.2	PTC Start of Interception.....	207
17.2.3	PTC Serving System.....	208
17.2.4	PTC Session Initiation .....	209
17.2.5	PTC Session Abandon End Record .....	210
17.2.6	PTC Session Start Continue Record .....	211
17.2.7	PTC Session End Record.....	212
17.2.8	PTC Instant Personal Alert .....	212
17.2.9	PTC Party Join.....	213
17.2.10	PTC Party Drop .....	214

17.2.11	PTC Party Hold-Retrieve Record .....	215
17.2.12	PTC Media Modification .....	216
17.2.13	PTC Group Advertisement .....	217
17.2.14	PTC Floor Control .....	217
17.2.15	PTC Target Presence .....	220
17.2.16	PTC Associate Presence .....	220
17.2.17	PTC List Management Events .....	220
17.2.18	PTC Access Policy .....	222
17.2.19	PTC Media Type Notification .....	223
17.2.20	PTC Pre-established Session Record .....	224
17.3	PTC Group Calls .....	225
17.3.1	Introduction .....	225
17.3.2	Group Call Request .....	225
17.3.3	Group Call Cancel .....	226
17.3.4	Group Call Response .....	227
17.3.5	PTC Group Interrogate .....	228
17.3.6	MCPTT Imminent Peril Group Call .....	229
18	PTC Encryption .....	230
<b>Annex A (normative): HI2 delivery mechanisms and procedures .....</b>		<b>232</b>
A.0	Introduction .....	232
A.1	Void .....	232
A.2	FTP .....	232
A.2.1	Introduction .....	232
A.2.2	Usage of the FTP .....	232
A.2.3	Profiles (informative) .....	233
A.2.4	File content .....	235
A.2.5	Exceptional procedures .....	235
A.2.6	Other considerations .....	236
A.3	ETSI TS 102 232-1 and ETSI TS 102 232-7 .....	237
A.3.1	General .....	237
A.3.2	Usage for realising HI2 .....	237
<b>Annex B (normative): Structure of data at the handover interface .....</b>		<b>238</b>
B.0	Introduction .....	238
B.1	Syntax definitions .....	238
B.2	3GPP object tree .....	239
B.3	Intercept related information (HI2 PS and IMS) .....	240
B.3a	Interception related information (HI2 CS) .....	240
B.4	Contents of communication (HI3 PS) .....	240
B.5	Void .....	240
B.6	User data packet transfer (HI3 CS) .....	240
B.7	Intercept related information (and I-WLAN) .....	240
B.8	Intercept related information (MBMS) .....	240
B.9	Intercept related information (HI2 SAE/EPS and IMS) .....	240
B.10	Contents of communication (HI3 EPS) .....	240
B.11	IMS Conference Services ASN.1 .....	241
B.11.1	Intercept related information (Conference Services) .....	241
B.11.2	Contents of communication (HI3 IMS Conferencing) .....	241
B.12	Contents of Communication (HI3 IMS-based VoIP) .....	241

B.13	Intercept related information for ProSe.....	241
B.14	GCSE Services ASN.1 .....	241
B.14.1	Intercept related information (GCSE Services).....	241
B.14.2	Contents of communication (HI3 GCSE Group Communications) .....	241
B.15	Intercept related information (HI2 MMS).....	241
B.16	Content information (HI3 MMS) .....	241
B.17	IP based handover (HI3) for CS voice content.....	242
<b>Annex C (normative): UMTS and EPS HI3 interfaces.....</b>		<b>243</b>
C.0	Introduction .....	243
C.1	UMTS LI correlation header .....	243
C.1.1	Introduction .....	243
C.1.2	Definition of ULIC header version 0.....	243
C.1.3	Definition of ULIC header version 1.....	245
C.1.4	Exceptional procedure.....	246
C.1.5	Other considerations.....	246
C.2	FTP.....	246
C.2.1	Introduction .....	246
C.2.2	Usage of the FTP.....	246
C.2.3	Exceptional procedures .....	248
C.2.4	CC contents for FTP.....	248
C.2.4.1	Fields .....	248
C.2.4.2	Information element syntax .....	250
C.2.5	Other considerations.....	252
C.2.6	Profiles (informative).....	253
C.3	ETSI TS 102 232-1 and ETSI TS 102 232-7 .....	254
C.3.1	General .....	254
<b>Annex D (informative): LEMF requirements - handling of unrecognised fields and parameters.....</b>		<b>256</b>
<b>Annex E (informative): Bibliography.....</b>		<b>257</b>
<b>Annex F (informative): Correlation indications of IMS IRI with GSN CC at the LEMF .....</b>		<b>259</b>
<b>Annex G (informative): United States lawful interception .....</b>		<b>260</b>
G.1	Delivery methods preferences .....	260
G.2	HI2 delivery methods .....	260
G.2.1	TPKT/TCP/IP.....	260
G.2.1.1	Introduction.....	260
G.2.1.2	Normal Procedures .....	260
G.2.1.2.0	General .....	260
G.2.1.2.1	Usage of TCP/IP when MF initiates TCP Connections .....	260
G.2.1.2.2	Use of TPKT .....	260
G.2.1.2.3	Sending of LI messages .....	261
G.2.1.3	ASN.1 for HI2 Mediation Function Messages.....	261
G.2.1.4	Error Procedures .....	261
G.2.1.5	Security Considerations .....	262
G.3	HI3 delivery methods .....	262
G.3.1	Use of TCP/IP .....	262
G.3.1.1	Normal Procedures .....	262
G.3.1.1.0	Introduction.....	262
G.3.1.1.1	Usage of TCP/IP when MF/DF initiates TCP Connections .....	262
G.3.1.1.2	Use of TPKT .....	262
G.3.1.1.3	Sending of Content of Communication Messages .....	263

G.3.1.2	ASN.1 for HI3 Mediation Function Messages.....	263
G.3.1.3	Error Procedures .....	263
G.3.1.4	Security Considerations .....	263
G.4	Cross reference of terms between J-STD-025-A and 3GPP.....	264
<b>Annex H (normative):</b>	<b>United States lawful interception .....</b>	<b>265</b>
<b>Annex I (informative):</b>	<b>Void .....</b>	<b>267</b>
<b>Annex J (normative):</b>	<b>Definition of the UUS1 content associated and sub-addressing to the CC link.....</b>	<b>268</b>
J.0	Introduction .....	268
J.1	Definition of the UUS1 content associated to the CC link.....	268
J.2	Use of sub-address and calling party number to carry correlation information .....	268
J.2.1	Introduction .....	268
J.2.2	Subaddress options .....	268
J.2.3	Subaddress coding.....	269
J.2.3.0	General.....	269
J.2.3.1	BCD Values.....	269
J.2.3.2	Field order and layout.....	269
J.2.4	Field coding.....	272
J.2.4.0	Introduction.....	272
J.2.4.1	Direction .....	273
J.2.4.2	Coding of the Calling Party Number .....	273
J.2.5	Length of fields .....	273
<b>Annex K (normative):</b>	<b>VoIP HI3 Interface .....</b>	<b>274</b>
K.1	VoIP CC Protocol Data Unit.....	274
K.2	Definition of VoIP LI Correlation header .....	274
K.3	Definition of Payload .....	275
K.4	LEMF Considerations .....	275
<b>Annex L (normative):</b>	<b>Conference HI3 Interface.....</b>	<b>276</b>
L.1	Conf CC Protocol Data Unit .....	276
L.2	Definition of Conference LI Correlation header .....	276
L.3	Definition of Payload .....	277
L.4	LEMF Considerations .....	277
<b>Annex M (informative):</b>	<b>Generic LI notification (HI1 notification using HI2 method).....</b>	<b>278</b>
M.1	HI.1 delivery methods preferences:.....	278
M.2	ASN.1 description of LI management notification operation (HI1 interface).....	279
<b>Annex N (informative):</b>	<b>Guidelines on IMS VoIP Correlation Information.....</b>	<b>280</b>
N.1	Introduction .....	280
N.2	IMS VoIP .....	280
N.2.0	General .....	280
N.2.1	One Correlation Number Value.....	281
N.2.2	Multiple Correlation Number Values .....	281
N.2.2.0	General.....	281
N.2.2.1	Method 1.....	281
N.2.2.2	Method 2.....	282
N.2.2.3	Method 3.....	282

N.2.3	Complex Example - Use of one Correlation Number.....	283
N.2.4	Complex Example - Use of Multiple Correlation Numbers.....	283
N.2.4.0	General.....	283
N.2.4.1	Method 1.....	283
N.2.4.2	Method 2.....	284
N.2.4.3	Method 3.....	284
N.3	IMS Conferencing.....	285
N.3.1	General.....	285
N.3.2	Target Initiated AdHoc Conference Call.....	285
N.3.3	Independent Lawful Interception of IMS-Conferencing.....	285
N.3.3.1	General.....	285
N.3.3.2	Use of correlationNumber (OCTET STRING).....	285
N.3.3.3	Use of imsVoIP (IMS-VoIP-Correlation).....	286
N.3.3.3.1	One Correlation Number Value.....	286
N.3.3.3.2	Multiple Correlation Number Values.....	286
<b>Annex O (informative):</b>	<b>Selection of ASN.1 HI2 sub-domain for LALS Reporting.....</b>	<b>287</b>
<b>Annex P (normative):</b>	<b>Removal of content from SMS.....</b>	<b>288</b>
<b>Annex Z (informative):</b>	<b>Change history.....</b>	<b>289</b>
History.....		295

iTech Standards  
(<https://standards.iteh.ai>)  
Document Preview

[ETSI TS 133 108 V18.0.0 \(2024-04\)](#)

<https://standards.iteh.ai/catalog/standards/etsi/06d4fbd7-9b20-4937-a995-924c69fc7962/etsi-ts-133-108-v18-0-0-2024-04>

---

# Foreword

This Technical Specification has been produced by the 3<sup>rd</sup> Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
  - 1 presented to TSG for information;
  - 2 presented to TSG for approval;
  - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

---

# Introduction

This Technical Specification has been produced by 3GPP TSG SA to allow for the standardization in the area of lawful interception of telecommunications. This document addresses the handover interfaces for lawful interception of Packet-Data Services, Circuit Switched Services, Multimedia Services within the Universal Mobile Telecommunication System (UMTS) and Evolved Packet System (EPS). The specification defines the handover interfaces for delivery of lawful interception Intercept Related Information (IRI) and Content of Communication (CC) to the Law Enforcement Monitoring Facility.

Laws of individual nations and regional institutions (e.g. European Union), and sometimes licensing and operating conditions define a need to intercept telecommunications traffic and related information in modern telecommunications systems. It has to be noted that lawful interception shall always be done in accordance with the applicable national or regional laws and technical regulations. Nothing in this specification, including the definitions, is intended to supplant national law.

This specification should be used in conjunction with TS 33.106 [18] and TS 33.107 [19] in the same release. This specification may also be used with earlier releases of TS 33.106 [18] and TS 33.107 [19], as well as for earlier releases of UMTS and GPRS.