



Lawful Interception (LI); ASN.1 Object Identifiers in Lawful Interception and Retained data handling Specifications

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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

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Foreword

This Technical Report (TR) has been produced by ETSI Technical Committee Lawful Interception (LI).

Modal verbs terminology

In the present document "**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 gives an overview over the relevant Object Identifiers (OID) used in Lawful Interception and Retained data handling specifications of ETSI and other specifications from ITU-T and ISO.

2 References

2.1 Normative references

The following referenced documents are not applicable.

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] Void.

[i.2] ETSI ES 201 671: "Lawful Interception (LI); Handover interface for the lawful interception of telecommunications traffic".

[i.3] 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.

[i.4] 3GPP TS 33.108: "Universal Mobile Telecommunications System (UMTS); LTE; 3G security; Handover interface for Lawful Interception (LI) (3GPP TS 33.108)".

NOTE: 3GPP TS 33.108 will be available also as ETSI TS 133 108.

[i.5] ETSI TS 102 232: "Lawful Interception (LI); Handover specification for IP delivery".

NOTE: ETSI TS 102 232 is replaced by ETSI TS 102 232-1 [i.13].

[i.6] ETSI TS 102 233: "Lawful Interception (LI); Service specific details for E-mail services".

NOTE: ETSI TS 102 233 is replaced by ETSI TS 102 232-2 [i.14].

[i.7] ETSI TS 102 234: "Lawful Interception (LI); Service-specific details for internet access services".

NOTE: ETSI TS 102 234 is replaced by ETSI TS 102 232-3 [i.15].

[i.8] ETSI TS 102 815: "Lawful Interception (LI); Service-specific details for Layer 2 Lawful Interception".

NOTE: ETSI TS 102 815 is replaced by ETSI TS 102 232-4 [i.16].

[i.9] Recommendation ITU-T X.880: "Information technology - Remote Operations: Concepts, model and notation".

- [i.10] ETSI TS 101 909-20-1: "Digital Broadband Cable Access to the Public Telecommunications Network; IP Multimedia Time Critical Services; Part 20: Lawful Interception; Sub-part 1: CMS based Voice Telephony Services".
- [i.11] ETSI TS 101 909-20-2: "Digital Broadband Cable Access to the Public Telecommunications Network; IP Multimedia Time Critical Services; Part 20: Lawful Interception; Sub-part 2: Streamed multimedia services".
- [i.12] ETSI EN 301 040: "Terrestrial Trunked Radio (TETRA); Security; Lawful Interception (LI) interface".
- [i.13] 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".
- [i.14] ETSI TS 102 232-2: "Lawful Interception (LI); Handover Interface and Service-Specific Details (SSD) for IP delivery; Part 2: Service-specific details for messaging services".
- [i.15] ETSI TS 102 232-3: "Lawful Interception (LI); Handover Interface and Service-Specific Details (SSD) for IP delivery; Part 3: Service-specific details for internet access services".
- [i.16] ETSI TS 102 232-4: "Lawful Interception (LI); Handover Interface and Service-Specific Details (SSD) for IP delivery; Part 4: Service-specific details for Layer 2 services".
- [i.17] ETSI TS 102 232-5: "Lawful Interception (LI); Handover Interface and Service-Specific Details (SSD) for IP delivery; Part 5: Service-specific details for IP Multimedia Services".
- [i.18] ETSI TS 102 232-6: "Lawful Interception (LI); Handover Interface and Service-Specific Details (SSD) for IP delivery; Part 6: Service-specific details for PSTN/ISDN services".
- [i.19] ETSI TS 102 657: "Lawful Interception (LI); Retained data handling; Handover Interface for the request and delivery of retained data".

3 Definitions and abbreviations

3.1 Definitions

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

common domain: set of objects, which are part of the definition of a protocol or a set of related protocols

information object: well-defined piece of information, definition, or specification, which requires a name in order to identify its use in an instance of communication

Object Identifier (OID): value (distinguishable from all other such values), which is associated with an information object

NOTE: An object identifier consists of a sequence of integers. Each integer represents a node in the object identifier tree. So, each successive integer can be thought of as a selection of an end of a branch of the tree. The branch is traversed to get to the next level in the tree.

3.2 Abbreviations

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

| | |
|-------|----------------------------------|
| ASN.1 | Abstract Syntax Notation One |
| AT-D | Access and Terminals - Digital |
| CR | Change Request |
| EP | ETSI Project |
| LI | Lawful Interception |
| OID | Object Identifier |
| ROSE | Remote Operation Service Element |

TC Technical Committee
TETRA TErrestrial Trunked RAdio

4 Structure of the ETSI domain

4.1 Tree structure

Figure 1 contains the structure for the ETSI domain with the included Lawful Intercept and Retained data handling domain and ASN.1 modules from other Lawful Interception (LI) specifications.

ETSI/TC LI will act as the formal registration authority for the Lawful Intercept and Retained data handling domain, except for the "threeGPP(4)" subdomain which is administrated by 3GPP/SA3-LI, ETSI/TC AT-D is responsible for the "ts101909(1909)" subdomain and ETSI/EP TETRA is responsible for the "en301040(1040)" subdomain.

4.2 Description of the ETSI domain

Tables 1 to 4 contain the OIDs of the ETSI domain. The entries in the last column in the tables point to the specification where the modules can be found.

For information, in addition to those OIDs defined within ETSI/TC LI, table 5 contains the OIDs for the ROSE operations. Because of the imports, the ASN.1 modules of ROSE will be included when syntax checking or compiling the LI specific ASN.1 modules.

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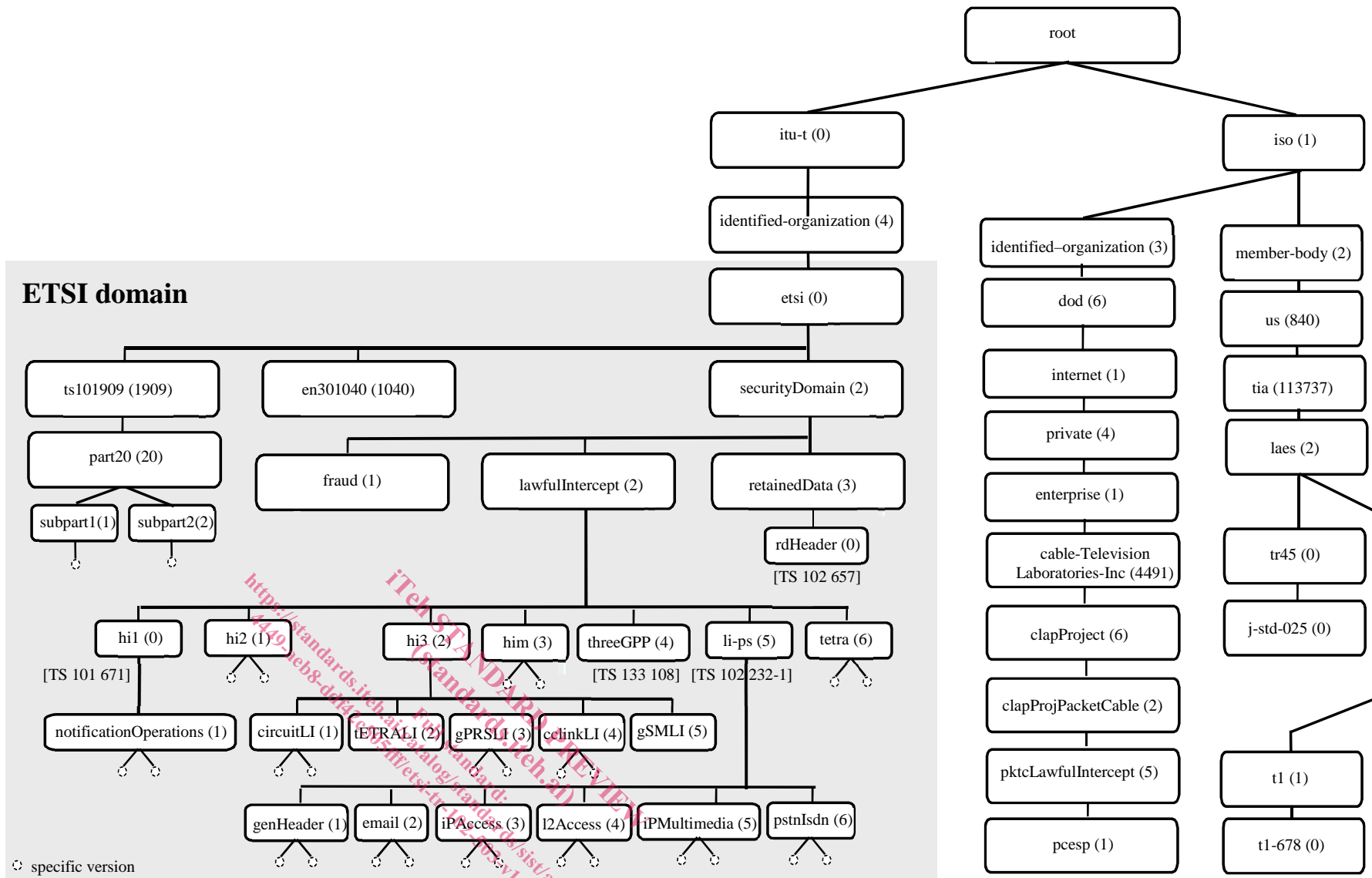


Figure 1: Tree structure of ETSI domain

Table 1: OIDs of the ETSI Lawful Intercept domain

| Object Identifier | | | | | Specification | | | |
|-------------------|-----------------------------|---------|-------------------|--------------------|---|--|--|---|
| itu-t (0) | identified-organizations(4) | etsi(0) | securityDomain(2) | lawfulIntercept(2) | ETSI TR 102 503 V1.11.1 (the present document) | | | |
| | | | | | fraud(1) | ETSI ES 201 671 [i.2], V1.1.1 clause A.4 | | |
| | | | | | hi1(0) | notification Operations (1) | version1(1) version2(2) version3(3) version4(4) version5(5) version6(6) version7(7) | ETSI ES 201 671 [i.2], V1.1.1 clause A.4 ETSI ES 201 671 [i.2], V2.1.1 clause D.4 ETSI TS 101 671 [i.3], V2.9.1 clause D.4 ETSI TS 101 671 [i.3], V2.11.1 clause D.4 ETSI TS 101 671 [i.3], V2.12.1 clause D.4 ETSI TS 101 671 [i.3], V3.3.1 clause D.4 ETSI TS 101 671 [i.3], V3.13.1 clause D.4 |
| | | | | | hi2(1) | version1(1) version2(2) version3(3) version4(4) version5(5) version6(6) version7(7) version8(8) version9(9) version10(10) version11(11) version12(12) version13(13) version14(14) version15(15) version16(16) version17(17) version18(18) | ETSI ES 201 671 [i.2], V1.1.1 clause A.5 ETSI ES 201 671 [i.2], V2.1.1 clause D.5 ETSI TS 101 671 [i.3], V2.5.1 clause D.5 ETSI TS 101 671 [i.3], V2.7.1 clause D.5 ETSI TS 101 671 [i.3], V2.9.1 clause D.5 ETSI TS 101 671 [i.3], V2.10.1 clause D.5 ETSI TS 101 671 [i.3], V2.11.1 clause D.5 ETSI TS 101 671 [i.3], V2.12.1 clause D.5 ETSI TS 101 671 [i.3], V2.13.1 clause D.5 ETSI TS 101 671 [i.3], V2.14.1 clause D.5 ETSI TS 101 671 [i.3], V3.5.1 clause D.5 ETSI TS 101 671 [i.3], V3.6.1 clause D.5 ETSI TS 101 671 [i.3], V3.7.1 clause D.5 ETSI TS 101 671 [i.3], V3.8.1 clause D.5 ETSI TS 101 671 [i.3], V3.9.1 clause D.5 ETSI TS 101 671 [i.3], V3.10.1 clause D.5 ETSI TS 101 671 [i.3], V3.11.1 clause D.5 ETSI TS 101 671 [i.3], V3.12.1 clause D.5 | |
| | | | | | circuitLI(1) | version1(1) version2(2) version3(3) version4(4) | ETSI ES 201 671 [i.2], V1.1.1 clause A.6 ETSI ES 201 671 [i.2], V2.1.1 clause D.6 ETSI TS 101 671 [i.3], V2.12.1 clause D.6 ETSI TS 101 671 [i.3], V3.7.1 clause D.6 | |
| | | | | | tETRALI(2) | version1(1) | ETSI ES 201 671 [i.2], V1.1.1 clause A.7 For Further Study | |
| | | | | | hi3(2) | gPRSLI(3) | version1(1) version2(2) version3(3) | ETSI ES 201 671 [i.2], V1.1.1 clause A.8 ETSI TS 101 671 [i.3], V2.10.1 clause D.9 ETSI TS 101 671 [i.3], V2.12.1 clause D.9 |
| | | | | | cclinkLI(4) | version1(1) version2(2) version3(3) version4(4) | ETSI ES 201 671 [i.2], V1.1.1 clause A.9 ETSI ES 201 671 [i.2], V2.1.1 clause D.8 ETSI TS 101 671 [i.3], V2.7.1 clause D.8 ETSI TS 101 671 [i.3], V2.12.1 clause D.8 | |
| | | | | | gSMLI(5) | | ETSI ES 201 671 [i.2], V2.1.1 clause D.2 For Further Study | |

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| Object Identifier | | | | | Specification | | | | | |
|-------------------|-----------------------------|---------|-------------------|---------------------|---------------|---|---|--|---|---|
| itu-t (0) | identified-organizations(4) | etsi(0) | securityDomain(2) | lawfullIntercept(2) | him(3) | version1(1) version2(2) version3(3) | ETSI ES 201 671 [i.2], V1.1.1 clause A.3 ETSI ES 201 671 [i.2], V2.1.1 clause D.3 ETSI TS 101 671 [i.3], V2.12.1 clause D.3 | | | |
| | | | | | threeGPP(4) | hi1(0) | Notification Operations (1) | version-0(0) version-1(1) version-2(2) version-0(0) version-1(1) | 3GPP TS 33.108 [i.4], V12.7.0 clause M.2 3GPP TS 33.108 [i.4], V12.8.0 clause M.2 3GPP TS 33.108 [i.4], V12.11.0 clause M.2 3GPP TS 33.108 [i.4], V13.2.0 clause M.2 3GPP TS 33.108 [i.4], V13.4.0 clause M.2 | |
| | | | | | | | r12(12) | | | r13(13) |
| | | | | | threeGPP(4) | hi2(1) | version-1(1) version-2(2) | version-3(3) version-4(4) | 3GPP TS 33.108 [i.4], V5.0.0 clause B.3 3GPP TS 33.108 [i.4], V6.0.0 clause B.3 | |
| | | | | | | | r5(5) | version-3(3) version-4(4) | 3GPP TS 33.108 [i.4], V5.7.0 clause B.3 3GPP TS 33.108 [i.4], V5.8.0 clause B.3 | |
| | | | | | | | r6(6) | version-3(3) version-4(4) version-5(5) version-6(6) | 3GPP TS 33.108 [i.4], V6.5.0 clause B.3 3GPP TS 33.108 [i.4], V6.6.0 clause B.3 3GPP TS 33.108 [i.4], V6.7.0 clause B.3 3GPP TS 33.108 [i.4], V6.8.0 clause B.3 | |
| | | | | | | | | r7(7) | version-1(1) version-2(2) version-3(3) | 3GPP TS 33.108 [i.4], V7.2.0 clause B.3 3GPP TS 33.108 [i.4], V7.3.0 clause B.3 3GPP TS 33.108 [i.4], V7.8.0 clause B.3 |
| | | | | | | | | r8(8) | version-1(1) | 3GPP TS 33.108 [i.4], V8.0.0 clause B.3 |
| | | | | | | | r10(10) | version-1(1) version-2(2) version-3(3) | 3GPP TS 33.108 [i.4], V10.0.0 clause B.3 3GPP TS 33.108 [i.4], V10.2.0 clause B.3 3GPP TS 33.108 [i.4], V10.3.0 clause B.3 | |
| | | | | | | | | r11(11) | version-0(0) | 3GPP TS 33.108 [i.4], V11.3.0 clause B.3 |
| | | | | | | | r12(12) | version-0(0) version-1(1) version-2(2) version-3(3) version-4(4) version-5(5) version-6(6) version-7(7) version-8(8) version-9(9) | 3GPP TS 33.108 [i.4], V12.1.0 clause B.3 3GPP TS 33.108 [i.4], V12.2.0 clause B.3 3GPP TS 33.108 [i.4], V12.3.0 clause B.3 3GPP TS 33.108 [i.4], V12.4.0 clause B.3 3GPP TS 33.108 [i.4], V12.5.0 clause B.3 3GPP TS 33.108 [i.4], V12.6.0 clause B.3 3GPP TS 33.108 [i.4], V12.7.0 clause B.3 3GPP TS 33.108 [i.4], V12.8.0 clause B.3 3GPP TS 33.108 [i.4], V12.9.0 clause B.3 3GPP TS 33.108 [i.4], V12.11.0 clause B.3 | |
| | | | | | | | | r13(13) | version-0(0) version-1(1) | 3GPP TS 33.108 [i.4], V13.0.0 clause B.3 3GPP TS 33.108 [i.4], V13.2.0 clause B.3 |
| | | | | | | | | r14(14) | version-0(0) version-1(1) | 3GPP TS 33.108 [i.4], V14.0.0 clause B.3 3GPP TS 33.108 [i.4], V14.1.0 clause B.3 |
| | | | | | | | | hi3(2) | version-1(1) | 3GPP TS 33.108 [i.4], V5.0.0 clause B.4 |
| | | | | | | | | | r5(5) | version-2(2) |
| | | | | | | | r6(6) | | version-1(1) version-2(2) version-3(3) | 3GPP TS 33.108 [i.4], V6.5.0 clause B.4 3GPP TS 33.108 [i.4], V6.7.0 clause B.4 3GPP TS 33.108 [i.4], V6.8.0 clause B.4 |
| | | | | | | | r7(7) | version-0(0) | 3GPP TS 33.108 [i.4], V7.3.0 clause B.4 | |

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