

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

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Foreword

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

The present document is part 1 of a multi-part deliverable covering the Handover Interface and Service-Specific Details (SSD) for IP delivery, as identified below:

- Part 1: "Handover specification for IP delivery";**
- Part 2: "Service-specific details for E-mail services";
- Part 3: "Service-specific details for internet access services";
- Part 4: "Service-specific details for Layer 2 services";
- Part 5: "Service-specific details for IP Multimedia Services";
- Part 6: "Service-specific details for PSTN/ISDN services";
- Part 7: "Service-specific details for Mobile Services".

The ASN.1 module is also available as an electronic attachment to the original document from the ETSI site (see for more details clause A.2).

Introduction

The objective of the present document is to form the basis for a standardized handover interface for use by both telecommunications service providers and network operators, including Internet Service Providers, that will deliver the interception information required by Law Enforcement Authorities under various European treaties and national regulations.

The present document describes how to handover intercepted information via IP-based networks from a CSP to an LEMF. The present document covers the transportation of traffic, but does not specify functionality within CSPs or LEMF (see clause 4.1). It handles the transportation of intercepted traffic (HI3) and intercept-related information (HI2) but not the tasking and management of Lawful Interception (HI1).

The present document is intended to be general enough to be used in a variety of situations: it is not focused on a particular IP-based service. The specification therefore provides information that is not dependent on the type of service being intercepted. In particular the present document describes delivery mechanisms (clause 6), and the structure and header details (clause 5) for both HI2 and HI3 information.

References within the main body of the present document are made if applicable to the 3GPP specification number with in square brackets the reference number as listed in clause 2. In clause 2 "References" the corresponding ETSI specification number is indicated with a reference to the 3GPP specification number. 3GPP specifications are available faster than the equivalent ETSI specifications.

1 Scope

The present document specifies the general aspects of HI2 and HI3 interfaces for handover via IP based networks.

The present document:

- specifies the modular approach used for specifying IP based handover interfaces;
- specifies the header(s) to be added to IRI and CC sent over the HI2 and HI3 interfaces respectively;
- specifies protocols for the transfer of IRI and CC across the handover interfaces;
- specifies protocol profiles for the handover interface.

The present document is designed to be used where appropriate in conjunction with other deliverables that define the service-specific IRI data formats (including TS 102 227 [i.1], TS 101 909-20-1 [33], TS 101 909-20-2 [34], TS 102 232-2 [5] and TS 102 232-3 [6]). Where possible, the present document aligns with 3GPP TS 33.108 [9] and TS 101 671 [4] and supports the requirements and capabilities defined in TS 101 331 [1] and TR 101 944 [i.4].

For the handover of intercepted data within GSM/UMTS PS domain, the present document does not override or supersede any specifications or requirements in 3GPP TS 33.108 [9] and TS 101 671 [4].

2 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 reference document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://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.

2.1 Normative references

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

- [1] ETSI TS 101 331: "Lawful Interception (LI); Requirements of Law Enforcement Agencies".
- [2] ETSI ES 201 158: "Telecommunications security; Lawful Interception (LI); Requirements for network functions".
- [3] Void.
- [4] ETSI TS 101 671: "Lawful Interception (LI); Handover interface for the lawful interception of telecommunications traffic".

NOTE: Periodically TS 101 671 is published as ES 201 671. A reference to the latest version of the TS as above reflects the latest stable content from ETSI/TC LI.

- [5] ETSI TS 102 232-2: "Lawful Interception (LI); Handover Interface and Service-Specific Details (SSD) for IP delivery; Part 2: Service-specific details for E-mail services".
- [6] 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".
- [7] Void.
- [8] ETSI ETR 232: "Security Techniques Advisory Group (STAG); Glossary of security terminology".