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TECHNICAL REPORT

Lawful Interception (LI);
Collection of test cases for Lawful Interception
and Lawful Disclosure

ETSI

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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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Introduction

The present document defines test cases applicable for testing of Lawful Interception (LI) and Lawful Disclosure (LD) functionalities. The present document can be used in applicable testing scenarios, especially when communication and examination on an international or inter-organizational level is foreseeable.

1 Scope

The present document provides an informative basis for LI and LD related testing procedures, thus giving an international and inter-organizational understanding about applicable tests. By using the present document, communication and examination of tests is simplified by creating an equal understanding and structure of testing, regardless of time and organization. The test cases and test scenario components describe as many use cases as possible.

2 References

2.1 Normative references

Normative references are not applicable in the present document.

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 103 120: "Lawful Interception (LI); Interface for warrant information".

[i.2] ETSI TS 103 707: "Lawful Interception (LI); Handover Interface for HTTP delivery".

[i.3] ETSI TS 103 280: "Lawful Interception (LI); Dictionary for common parameters".

3 Definition of terms, symbols and abbreviations

3.1 Terms

Void.

3.2 Symbols

Void.

3.3 Abbreviations

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

CC	Content of Communication
CSP	Communication Service Provider
HTTP	HyperText Transfer Protocol
HTTPS	HyperText Transfer Protocol Secure
IRI	Intercept Related Information
LD	Lawful Disclosure
LEA	Law Enforcement Agency
LI	Lawful Interception

LIID   Lawful Interception IDentifier
TC   Test Case
TLS   Transport Layer Security
TSC   Test Scenario Component
URL   Uniform Resource Locator

4   Test cases and test scenarios

4.1   Overview

Clause 4.2 specifies a test case skeleton to be used for exemplary test cases, mainly in the form of workflows. The test cases may be used to design tests in an orderly manner, giving a basis to build individual tests. These test cases may also include the concept of concatenation of Test Scenario Components (TSCs) to build test cases that are more specific as described in clause 4.3.

4.2   Test case skeleton

All Test Cases (TCs) should be modelled after the same test case skeleton, depicted in the following:

TEST_CASE_TITLE

Reference:

Specific statements in the standard e.g. "Object top-level fields" can be referenced here.

Purpose:

Insert a brief description of the purpose of the test e.g. "Verifies that Object header fields are populated according to Table 2".

Procedure and execution steps:

Preconditions:

-      Any preconditions are to be listed here e.g. "the Receiver has received an ETSI TS 103 707 [i.2] record in a Delivery Object".

Execution Steps

1)   The steps that the implementer can follow to test the referenced statement is to be enumerated here.

Expected Results:

-      The expected results are to be listed here.

4.3   Test Scenario Components

Test Scenario Components (TSCs) can be used to compose e.g. LI functionality test scenarios. In this regard, concrete test scenarios can be built from the TSCs through concatenation, for example:

ID	Messaging-Scenario-1
Step	**Component (TSC)**
1	Messaging-TSC 001
2	Messaging-TSC 002
3	Messaging-TSC 005