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TECHNICAL REPORT

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

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Contents

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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).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

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 may be useful in implementing an ETSI deliverable or add to the reader's understanding, but are not required for conformance to the present document.

[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

5 ETSI TS 103 707 test cases and test scenarios

5.1 Compilation of test cases

5.1.1 Test cases applicable to HTTP handover interfaces

5.1.1.1 TC-01: Simple Workflow Profile Task

Reference:

related Reference(s):

- ETSI TS 103 120 [i.1], clauses 6.4.6, H.2.2 and H.2.4.

Purpose:

- Verify that AuthorisationObjects, DocumentObjects and (LI or LD) TaskObjects can be sent from the LEA to the Communication Service Provider (CSP).

Procedure and execution steps:

Preconditions:

- An LEA and a CSP system are available and connected regarding the secure transfer of TaskObjects, i.e. the Transport Layer Security is setup according to the respective requirements.
- All information needed to generate an AuthorisationObject, DocumentObject and a (LI or LD) TaskObject is available on the LEA side.

Execution Steps:

1) LEA: Setup one AuthorisationObject and link it to a DocumentObject and a (LI or LD) TaskObject as outlined in the aforementioned clause H.2.2.
2) LEA: Initiate the transfer of the AuthorisationObject to the CSP system.

Expected Results:

- A single AuthorisationObject, a DocumentObject and a (LI or LD) TaskObject were created.
- The TaskObject and the DocumentObject are linked to the AuthorisationObject.
- The AuthorisationObject as well as all objects being linked to it were transferred as a single HyperText Transfer Protocol (HTTP) Request according to clause H.2.4, via HyperText Transfer Protocol Secure (HTTPS) according to clause 6.4.6 and were acknowledged from the CSP system with a CREATE Response for each object according to clause 6.4.6.

5.1.1.2 TC-02: Simple Workflow Profile HTTP-Delivery LD

Reference:

related Reference(s):

- ETSI TS 103 120 [i.1], clauses 6.4.10 and H.2.4.
- ETSI TS 103 707 [i.2], clauses 5.2, 5.3 and 5.4.

Purpose:

- Verify that a DeliveryObject corresponding to an LDTask can be received.

Procedure and execution steps:

Preconditions:

- An LEA and a CSP system are available and connected regarding the delivery via HTTPS, i.e. the Transport Layer Security is setup according to the respective requirements.
- An AuthorisationObject with a DocumentObject and an LDTaskObject being linked to it is available within the CSP system.

Execution Steps:

1) CSP: Retrieve all data as required by the LDTask from the CSP system and create a respective DeliveryObject.
2) CSP: Initiate the transfer of the DeliveryObject to the LEA system.

Expected Results:

- The DeliveryObject was created successfully on the CSP side.
- The DeliveryObject was transferred as a DELIVER Request according to clause 6.4.10 and was acknowledged from the LEA's system with a DELIVER Response according to clause 6.4.10.
- The DeliveryObject contains the requested data which is structured according to ETSI TS 103 707 [i.2], clauses 5.2, 5.3 and 5.4.
- The header of the DeliveryObject contains in the reference field the same value as contained in the respective reference field of the LDTaskObject.

5.1.1.3 TC-03: Simple Workflow Profile HTTP-Delivery LI

Reference:

related Reference(s):

- ETSI TS 103 120 [i.1], clauses 6.4.10 and H.2.4.
- ETSI TS 103 707 [i.2], clauses 5.2, 5.3 and 5.4.

Purpose:

- Verify that LI data is handed over correctly.

Procedure and execution steps:

Preconditions:

- An LEA and a CSP system are available and connected regarding the delivery via HTTPS, i.e. the Transport Layer Security (TLS) is setup according to the respective requirements.
- An AuthorisationObject with a DocumentObject and an LITaskObject being linked to it is available within the CSP system.
- The CSP system is set up and ready to deliver LI data according to the LITask.

Execution Steps:

1) LEA: Start using the service as defined in the LITaskObject, i.e. by using a composed set of test scenario components with respect to the ServiceType that is defined in the LITaskObject.

Expected Results:

- The DeliveryObject was transferred as DELIVER Request according to clause 6.4.10 and was acknowledged from the LEA's system with a DELIVER Response according to clause 6.4.10.

- The DeliveryObject contains the requested data which is structured according to ETSI TS 103 707 [i.2], clauses 5.3, 5.4 and 5.5.
- The header of each DeliveryObject contains in the reference field the same value as contained in the respective reference field of the LITaskObject, i.e. the Lawful Interception Identifier (LIID).
- The outcome of the service usage is as defined in the respective test scenario components.

5.1.1.4 TC-04: Protect Transport Layer

Reference:

related Reference(s):

- ETSI TS 103 707 [i.2], clause 7.

Purpose:

- Verify that Transport Layer Security is implemented according to the requirements as outlined in the references.

Procedure and execution steps:

Preconditions:

- An IT system implementing the TLS protocol for the handover interface for HTTPS delivery is available and configured according to the aforementioned requirements.
- A peer implementing the TLS protocol for the handover interface for HTTPS delivery is available and configured according to the aforementioned requirements.

Execution Steps:

1) Establish a secure connection between the IT system and the peer and verify that the TLS protocol versions and combinations of cryptographic algorithms are supported by the implementation of the handover interface.

Expected Results:

- The IT system and the peer establish a secure connection, which is compliant with the aforementioned requirements.

5.2 Compilation of Test Scenario Components

5.2.1 Messaging Services

5.2.1.1 General

The following TSCs refer to the delivery of interception, implemented in accordance to ETSI TS 103 707 [i.2] (see ETSI TS 103 120 [i.1], clause 10.2.3).

NOTE: Each TSC consists of one action, meaning that for each component, only one handover item is to be transmitted, and that the application level header (as defined in ETSI TS 103 707 [i.2], clause 5.3) will be empty.

According to ETSI TS 103 707 [i.2], clause 5.4.1, the following mandatory core parameters are provided within all deliveries:

timestamp	Given as a QualifiedDateTime as defined in ETSI TS 103 280 [i.3], clause 6.4.

In all TSCs, asterisk (*) indicates that the party is the interception target as defined in the respective TargetIdentifier of the LITaskObject.

5.2.1.2 Messaging-TSC 001: Text message A* → B

Execution Step	Party A* transmits a text message to party B.
Expected Outcome	The respective Intercept Related Information (IRI) and Content of Communication (CC) data of party A* sending the text message to party B is delivered via the respective hand over interface.

Following information is provided within the delivery:

Conditional (if applicable)	
isTargetedParty	True for A*, as part of the MessagingParty structure, see ETSI TS 103 707 [i.2], clause 5.4.2.
Optional (if applicable)	
messageSender	Contains the identity of A*, as part of the MessagingParty structure.
messageReceivers	Contains the identity of B, as part of the MessagingParty structure.
schemaDetails	Contains the cspDefinedSchema.
xmlData	Contains the corresponding CSP-defined parameters and data, including the text message that was sent by party A*.

5.2.1.3 Messaging-TSC 002: Text message B → A*

Execution Step	Party B transmits a text message to party A*.
Expected Outcome	The respective IRI and CC data of party B sending the text message to party A* is delivered via the respective hand over interface.

Following information is provided within the delivery:

Conditional (if applicable)	
isTargetedParty	True for A*, as part of the MessagingParty structure, see ETSI TS 103 707 [i.2], clause 5.4.2.
Optional (if applicable)	
messageSender	Contains the identity of B, as part of the MessagingParty structure.
messageReceivers	Contains the identity of A*, as part of the MessagingParty structure.
schemaDetails	Contains the cspDefinedSchema.
xmlData	Contains the corresponding CSP-defined parameters and data, including the text message that was sent by party B.

5.2.1.4 Messaging-TSC 003: Message with image file A* → B

Execution Step	Party A* transmits an image file to party B via chat function.
Expected Outcome	The respective IRI and CC data of party A* sending the image file to party B is delivered via the respective hand over interface.

Following information is provided within the delivery:

Conditional (if applicable)	
isTargetedParty	True for A*, as part of the MessagingParty structure, see ETSI TS 103 707 [i.2], clause 5.4.2.
Optional (if applicable)	
messageSender	Contains the identity of A*, as part of the MessagingParty structure.
messageReceivers	Contains the identity of B, as part of the MessagingParty structure.
associatedBinaryData	Contains information about the image file that was sent by party A*, using the BinaryObject structure, as defined in ETSI TS 103 707 [i.2], clause 5.4.3.
schemaDetails	Contains the cspDefinedSchema.
xmlData	Contains the corresponding CSP-defined parameters and data.

The two options for the associatedBinaryData are as follows:

1) Either the binary data of the image file is available for the LEA to be queried via the Uniform Resource Locator (URL) specified in the URL parameter of the BinaryObject structure using "Model A" (see ETSI TS 103 707 [i.2], clause C.2).

2) Or the binary data of the image file is being sent to a URL owned by the LEA using "Model B" (see ETSI TS 103 707 [i.2], clause C.3).

5.2.1.5 Messaging-TSC 004: Message with image file B → A*

Execution Step	Party B transmits an image file to party A* via chat function.
Expected Outcome	The respective IRI and CC data of party B sending the image file to party A* is delivered via the respective hand over interface.

Following information is provided within the delivery:

Conditional (if applicable)	
isTargetedParty	True for A*, as part of the MessagingParty structure, see ETSI TS 103 707 [i.2], clause 5.4.2.
Optional (if applicable)	
messageSender	Contains the identity of B, as part of the MessagingParty structure.
messageReceivers	Contains the identity of A*, as part of the MessagingParty structure.
associatedBinaryData	Contains information about the image file that was sent by party B, using the BinaryObject structure, as defined in ETSI TS 103 707 [i.2], clause 5.4.3.
schemaDetails	Contains the cspDefinedSchema.
xmlData	Contains the corresponding CSP-defined parameters and data.

The two options for the associatedBinaryData are as follows:

1) Either the binary data of the image file is available for the LEA to be queried via the URL specified in the URL parameter of the BinaryObject structure using "Model A" (see ETSI TS 103 707 [i.2], clause C.2).

2) Or the binary data of the image file is being sent to a URL owned by the LEA using "Model B" (see ETSI TS 103 707 [i.2], clause C.3).

5.2.1.6 Messaging-TSC 005: Voice message A* → B

Execution Step	Party A* transmits a voice message to party B via chat function.
Expected Outcome	The respective IRI and CC data of party A* sending the voice message to party B is delivered via the respective hand over interface.

Following information is provided within the delivery:

Conditional (if applicable)	
isTargetedParty	True for A*, as part of the MessagingParty structure, see ETSI TS 103 707 [i.2], clause 5.4.2.
Optional (if applicable)	
messageSender	Contains the identity of A*, as part of the MessagingParty structure.
messageReceivers	Contains the identity of B, as part of the MessagingParty structure.
associatedBinaryData	Contains information about the audio file that was sent by party A*, using the BinaryObject structure, as defined in ETSI TS 103 707 [i.2], clause 5.4.3.
schemaDetails	Contains the cspDefinedSchema.
xmlData	Contains the corresponding CSP-defined parameters and data.

The two options for the associatedBinaryData are as follows:

1) Either the binary data of the audio file is available for the LEA to be queried via the URL specified in the URL parameter of the BinaryObject structure using "Model A" (see ETSI TS 103 707 [i.2], clause C.2).

2) Or the binary data of the audio file is being sent to a URL owned by the LEA using "Model B" (see ETSI TS 103 707 [i.2], clause C.3).

5.2.1.7 Messaging-TSC 006: Voice message B → A*

Execution Step	Party B transmits a voice message to party A* via chat function.
Expected Outcome	The respective IRI and CC data of party B sending the voice message to party A* is delivered via the respective hand over interface.

Following information is provided within the delivery:

Conditional (if applicable)	
isTargetedParty	True for A*, as part of the MessagingParty structure, see ETSI TS 103 707 [i.2], clause 5.4.2.
Optional (if applicable)	
messageSender	Contains the identity of B, as part of the MessagingParty structure.
messageReceivers	Contains the identity of A*, as part of the MessagingParty structure.
associatedBinaryData	Contains information about the audio file that was sent by party B, using the BinaryObject structure, as defined in ETSI TS 103 707 [i.2], clause 5.4.3.
schemaDetails	Contains the cspDefinedSchema.
xmlData	Contains the corresponding CSP-defined parameters and data.

The two options for the associatedBinaryData are as follows:

1) Either the binary data of the audio file is available for the LEA to be queried via the URL specified in the URL parameter of the BinaryObject structure using "Model A" (see ETSI TS 103 707 [i.2], clause C.2).

2) Or the binary data of the audio file is being sent to a URL owned by the LEA using "Model B" (see ETSI TS 103 707 [i.2], clause C.3).

5.2.1.8 Messaging-TSC 007: Text message A* → B, C (via group chat)

Execution Step	Party A* transmits a text message to the group chat with party B and party C.
Expected Outcome	The respective IRI and CC data of party A* sending the text message to parties B and C is delivered via the respective hand over interface.

Following information is provided within the delivery:

Conditional (if applicable)	
isTargetedParty	True for A*, as part of the MessagingParty structure, see ETSI TS 103 707 [i.2], clause 5.4.2.
Optional (if applicable)	
messageSender	Contains the identity of A*, as part of the MessagingParty structure.
messageReceivers	Contains the identities of B and C, as part of the MessagingParty structure, respectively.
schemaDetails	Contains the cspDefinedSchema.
xmlData	Contains the corresponding CSP-defined parameters and data, including the text message that was sent by party A*.

5.2.1.9 Messaging-TSC 008: Text message B → A*, C (via group chat)

Execution Step	Party B transmits a text message to the group chat with party A* and party C.
Expected Outcome	The respective IRI and CC data of party B sending the text message to parties A* and C is delivered via the respective hand over interface.

Following information is provided within the delivery:

Conditional (if applicable)	
isTargetedParty	True for A*, as part of the MessagingParty structure, see ETSI TS 103 707 [i.2], clause 5.4.2.
Optional (if applicable)	
messageSender	Contains the identity of B, as part of the MessagingParty structure.
messageReceivers	Contains the identities of A* and C, as part of the MessagingParty structure, respectively.
schemaDetails	Contains the cspDefinedSchema.
xmlData	Contains the corresponding CSP-defined parameters and data, including the text message that was sent by party B.

5.2.1.10 Messaging-TSC 009: Message with image file A* → B, C (via group chat)

Execution Step	Party A* transmits an image file to the group chat with party B and party C.
Expected Outcome	The respective IRI and CC data of party A* sending the image file to parties B and C is delivered via the respective hand over interface.

Following information is provided within the delivery:

Conditional (if applicable)	
isTargetedParty	True for A*, as part of the MessagingParty structure, see ETSI TS 103 707 [i.2], clause 5.4.2.
Optional (if applicable)	
messageSender	Contains the identity of A*, as part of the MessagingParty structure.
messageReceivers	Contains the identities of B and C, as part of the MessagingParty structure, respectively.
associatedBinaryData	Contains information about the image file that was sent by party A*, using the BinaryObject structure, as defined in ETSI TS 103 707 [i.2], clause 5.4.3.
schemaDetails	Contains the cspDefinedSchema.
xmlData	Contains the corresponding CSP-defined parameters and data.

The two options for the associatedBinaryData are as follows:

1) Either the binary data of the image file is available for the LEA to be queried via the URL specified in the URL parameter of the BinaryObject structure using "Model A" (see ETSI TS 103 707 [i.2], clause C.2).

2) Or the binary data of the image file is being sent to a URL owned by the LEA using "Model B" (see ETSI TS 103 707 [i.2], clause C.3).

5.2.1.11 Messaging-TSC 010: Message with image file B → A*, C (via group chat)

Execution Step	Party B transmits an image file to the group chat with party A* and party C.
Expected Outcome	The respective IRI and CC data of party B sending the image file to parties A* and C is delivered via the respective hand over interface.

Following information is provided within the delivery:

Conditional (if applicable)	
isTargetedParty	True for A*, as part of the MessagingParty structure, see ETSI TS 103 707 [i.2], clause 5.4.2.
Optional (if applicable)	
messageSender	Contains the identity of B, as part of the MessagingParty structure.
messageReceivers	Contains the identities of A* and C, as part of the MessagingParty structure, respectively.
associatedBinaryData	Contains information about the image file (e.g. file size, original filename) that was sent by party B, using the BinaryObject structure, as defined in ETSI TS 103 707 [i.2], clause 5.4.3.
schemaDetails	Contains the cspDefinedSchema.
xmlData	Contains the corresponding CSP-defined parameters and data.

The two options for the associatedBinaryData are as follows:

1) Either the binary data of the image file is available for the LEA to be queried via the URL specified in the URL parameter of the BinaryObject structure using "Model A" (see ETSI TS 103 707 [i.2], clause C.2).

2) Or the binary data of the image file is being sent to a URL owned by the LEA using "Model B" (see ETSI TS 103 707 [i.2], clause C.3).

5.2.1.12 Messaging-TSC 011: Voice message A* → B, C (via group chat)

Execution Step	Party A* transmits a voice message to the group chat with party B and party C.
Expected Outcome	The respective IRI and CC data of party A* sending the voice message to parties B and C is delivered via the respective hand over interface.

Following information is provided within the delivery:

Conditional (if applicable)	
isTargetedParty	True for A*, as part of the MessagingParty structure, see ETSI TS 103 707 [i.2], clause 5.4.2.
Optional (if applicable)	
messageSender	Contains the identity of A*, as part of the MessagingParty structure.
messageReceivers	Contains the identities of B and C, as part of the MessagingParty structure, respectively.
associatedBinaryData	Contains information about the audio file (e.g. file size, original filename) that was sent by party A*, using the BinaryObject structure, as defined in ETSI TS 103 707 [i.2], clause 5.4.3.
schemaDetails	Contains the cspDefinedSchema.
xmlData	Contains the corresponding CSP-defined parameters and data.

The two options for the associatedBinaryData are as follows:

1) Either the binary data of the audio file is available for the LEA to be queried via the URL specified in the URL parameter of the BinaryObject structure using "Model A" (see ETSI TS 103 707 [i.2], clause C.2).

2) Or the binary data of the audio file is being sent to a URL owned by the LEA using "Model B" (see ETSI TS 103 707 [i.2], clause C.3).

5.2.1.13 Messaging-TSC 012: Voice message B → A*, C (via group chat)

Execution Step	Party B transmits a voice message to the group chat with party A* and party C.
Expected Outcome	The respective IRI and CC data of party B sending the voice message to parties A* and C is delivered via the respective hand over interface.

Following information is provided within the delivery:

Conditional (if applicable)	
isTargetedParty	True for A*, as part of the MessagingParty structure, see ETSI TS 103 707 [i.2], clause 5.4.2.
Optional (if applicable)	
messageSender	Contains the identity of B, as part of the MessagingParty structure.
messageReceivers	Contains the identities of A* and C, as part of the MessagingParty structure, respectively.
associatedBinaryData	Contains information about the audio file that was sent by party B, using the BinaryObject structure, as defined in ETSI TS 103 707 [i.2], clause 5.4.3.
schemaDetails	Contains the cspDefinedSchema.
xmlData	Contains the corresponding CSP-defined parameters and data.

The two options for the associatedBinaryData are as follows:

1) Either the binary data of the audio file is available for the LEA to be queried via the URL specified in the URL parameter of the BinaryObject structure using "Model A" (see ETSI TS 103 707 [i.2], clause C.2).

2) Or the binary data of the audio file is being sent to a URL owned by the LEA using "Model B" (see ETSI TS 103 707 [i.2], clause C.3).

5.2.1.14 Messaging-TSC 013: Quoted Message A* → B

Execution Step	Party A* quotes an earlier message of party B and transmits a text message to party B.
Expected Outcome	The respective IRI and CC data of party A* sending the text message to party B is delivered via the respective hand over interface.

Following information is provided within the delivery:

Conditional (if applicable)	
isTargetedParty	True for A*, as part of the MessagingParty structure, see ETSI TS 103 707 [i.2], clause 5.4.2.
Optional (if applicable)	
messageSender	Contains the identity of A*, as part of the MessagingParty structure.
messageReceivers	Contains the identity of B, as part of the MessagingParty structure.
schemaDetails	Contains the cspDefinedSchema.
xmlData	Contains the corresponding CSP-defined parameters and data, including the text message that was sent by party A*. Additionally, the data include a reference to the respective quoted message.

5.2.1.15 Messaging-TSC 014: Quoted Message B → A*

Execution Step	Party B quotes an earlier message of party A* and transmits a text message to party A*.
Expected Outcome	The respective IRI and CC data of party B sending the text message to party A* is delivered via the respective hand over interface.

Following information is provided within the delivery:

Conditional (if applicable)	
isTargetedParty	True for A*, as part of the MessagingParty structure, see ETSI TS 103 707 [i.2], clause 5.4.2.
Optional (if applicable)	
messageSender	Contains the identity of B, as part of the MessagingParty structure.
messageReceivers	Contains the identity of A*, as part of the MessagingParty structure.
schemaDetails	Contains the cspDefinedSchema.
xmlData	Contains the corresponding CSP-defined parameters and data, including the text message that was sent by party B. Additionally, the data include a reference to the respective quoted message.

5.2.1.16 Messaging-TSC 015: Multiple Devices A* → B

Execution Step	Party A* uses the messaging service on multiple devices and transmits a text message to party B.
Expected Outcome	The respective IRI and CC data of party A* sending the text message to party B is delivered via the respective hand over interface.

Following information is provided within the delivery:

Conditional (if applicable)	
isTargetedParty	True for A*, as part of the MessagingParty structure, see ETSI TS 103 707 [i.2], clause 5.4.2.
Optional (if applicable)	
messageSender	Contains the identity of A*, as part of the MessagingParty structure.
messageReceivers	Contains the identity of B, as part of the MessagingParty structure.
schemaDetails	Contains the cspDefinedSchema.
xmlData	Contains the corresponding CSP-defined parameters and data, including the text message that was sent by party A*. Additionally, the data include a device identifier of the device that the message originated from.

5.2.1.17 Messaging-TSC 016: Multiple Devices B → A*

Execution Step	Party B transmits a text message to party A*, while party A* uses the messaging service on multiple devices.
Expected Outcome	The respective IRI and CC data of party B sending the text message to party A* is delivered via the respective hand over interface.

Following information is provided within the delivery:

Conditional (if applicable)	
isTargetedParty	True for A*, as part of the MessagingParty structure, see ETSI TS 103 707 [i.2], clause 5.4.2.
Optional (if applicable)	
messageSender	Contains the identity of B, as part of the MessagingParty structure.
messageReceivers	Contains the identity of A*, as part of the MessagingParty structure.
schemaDetails	Contains the cspDefinedSchema.
xmlData	Contains the corresponding CSP-defined parameters and data, including the text message that was sent by party B. Additionally, the data includes the device identifiers of the devices that received the message.

Annex A:
Change history

Status of Technical Report ETSI TR 104 112 Collection of test cases for Lawful Interception and Lawful Disclosure		
TC LI approval date	**Version**	**Remarks**
February 2025	V1.1.1	First publication of the TR after approval at ETSI TC LI#68 in Dublin (Ireland)
June 2025	V1.2.1	Addition of TSCs 001 and 007 examples as XML files to the ETSI forge

History

Document history		
V1.1.1	March 2025	Publication
V1.2.1	July 2025	Publication