

October 29 – November 1, 2019; West Palm Beach, FL, USA

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**Source:** Public Safety Canada  
**Title:** LI Suspend/Resume support way forward  
**Document for:** Discussion  
**Agenda Item:** 11.2  
**Work Item / Release:** LI16

*Abstract of the contribution: This contribution is a Discussion on how to get the concept active intercept Suspend / Resume implemented*

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## Discussion on how to proceed with LI instance temporary suspend and resume

See the append document for the back-ground information (from a couple of years back).



Temporary Suspend  
and Resume.docx

The ability to temporary suspend and later resume an intercept instance has grown in importance.

From 33.126:

**R6.5 - 20 Interception Temporary Reduction** - The CSP shall be able to both suspend (e.g. when roaming outbound internationally) and resume all or a portion of the obligated Interception Product during the Interception Period.

This paper proposes a two phase approach.

Phase 1 being a manual process where the LEA specifically requests the CSP to suspend a specific intercept (could be via HI-1, or a simple phone call, etc.). And the subsequent resume request is also manual.

Phase 2 be a more automated solution where if the predefined policy for suspend or resume is met the LI solution automatically suspends / resumes the intercept with notification to the LEA.

**R6.5 - 40 LI Changes** - The CSP shall be able to notify the LEA of changes related to interception (e.g., suspend or resume).

Clarification from our policy people is that it is OK to continue to collect but just not deliver via the handover interfaces (HI-2/3). Nor should the LI product be buffered during a suspended period.

The proposed solution for phase 1 is straight forward:

- The LEA contacts the CSP to suspend or resume
- The CSP (specifically the ADMF) instructs the MDF(s) to suspend delivery.

There is some implementation support for this already in that ETSI TS 103 120 (Lawful Interception (LI); Interface for warrant information) has the concept of a warrant state being "suspended" but doesn't include the details on how to suspend (nor re-instate) the the warrant.

The mechanism appears to be to request a change of state is signalled by sending a message with the state set to the desired state i.e. suspended. Spec ??? and more details required.

The mechanism for requesting automatic suspension via X1 also appears to be in place

ETSI TS 103 221-1 Lawful Interception (LI);

Part 1: Internal Network Interface X1 for Lawful Interception

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SuspendOnOutboundInternationalRoaming

Shall be included to Identify whether to suspend interception or not (i.e. continue interception) if the target undergoes outbound international roaming and per the description beneath the table. Boolean C

However, there doesn't appear to be X1 support for manual suspend / resume.

So we have some of the building blocks at the protocols level but they are incomplete and there is no high level architecture (stage 2) on how this all works.

Actions for agreement: (assuming agreement on the phase 1 approach)

- 1) Work with ETSI to fill out the protocol details
- 2) Define a stage 2 like architecture description for the solution (is this a SA3-LI or TC-LI action ?)