**3GPP TSG-SA3 Meeting #81-LI-e-a *s3i210269***

**Online, , 12 Apr 2021 - 16 Apr 2021**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **33.128** | **CR** | **0197** | **rev** | **0** | **Current version:** | **17.0.0** |  |
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| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

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| ***Title:***  | LALS Updates 128 |
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| ***Source to WG:*** | SA3-LI (OTD) |
| ***Source to TSG:*** | SA3 |
|  |  |
| ***Work item code:*** | LI17 |  | ***Date:*** | 2021-04-12 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-17 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
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| ***Reason for change:*** | There is no means for an LI-LCS client to signal to the GMLC that interaction with an external network for LALS is permitted or not for a given Target. This mechanism is needed to ensure that the GMLC is able to protect the privacy of LI in accordance with LEA needs. In addition, the LALSReport record as contained in Table 7.3.1.4-1 should indicate that the location parameter is mandatory as there is no condition specificed for its inclusion and the description covers how to code the paramter for all cases. Finally, in Clause 7.1.3.5, the use of requirements terminology (i.e. “may”) should not be used in a NOTE and should be fixed. |
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| ***Summary of change:*** | Adds a parameter to the ActivateTask message to indicate whether external network interaction is permitted or not for LALS for the target, fixes the mandatory inclusion of the location parameter, and changes the two instances of “may” to “can” in the NOTE in 7.1.3.5.  |
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| ***Consequences if not approved:*** | CSPs may not be able to meet regulatory requirements regarding protecting the privacy of LI. |
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| ***Clauses affected:*** | 7.3.1.3, 7.3.14, and 7.3.1.5 |
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|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ... |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

\*\*\* Start of First Change \*\*\*

7.3.1.3 Triggering over LI\_T2

An LTF, provisioned as described in clause 7.3.1.2.2, triggers the triggered IRI-POI provided by the LI-LCS client using the LI\_T2 protocol as described in clause 5.2.4. The “TaskDetailsExtensions” in the LI\_T2 “ActivateTask” message carries the positioning parameters mapped from the LTF provisioning over the LI\_X1. The LI\_T2 “ActivateTask” message header may include a correlation ID from the triggering xIRI, if available.

Prior to issuing one or more “ActivateTask” requests towards an LI-LCS Client, the LIPF shall provision the LI-LCS client with the LI\_X2 destinations by using the “CreateDestination” operation(s), as per clause 5.2.2. The LI-LCS client shall deactivate the task upon issuing the final xIRI for the trigger. There is no DeactivateTask operation on the LI\_T2 for the LI-LCS client.

The Table 7.3.1.3-1 shows the details of the LI\_T2 ActivateTask message used by the LTF to trigger LI-CS client for the triggered location service.

**Table 7.3.1.3-1: ActivateTask message from LTF to LI-LCS client for the triggered location service triggering**

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| --- | --- | --- |
| **ETSI TS 103 221-1 field name** | **Description** | **M/C/O** |
| XID | The same value as in the LTF provisioning (clause 7.3.3.2.2). | M |
| TargetIdentifiers | One of the following, per LTF provisioning:- SUPI.- PEI.- GPSI. | M |
| DeliveryType | Set to “X2Only”. | M |
| ListOfDIDs | Delivery endpoints for LI-LCS Client LI\_X2. These delivery endpoints are configured in LTF using the CreateDestination message as described in ETSI TS 103 221-1 [7], clause 6.3.1 prior to the task activation. | M |
| CorrelationID | Correlates the requested location to the triggering xIRI, if available. | C |
| TaskDetailsExtensions/PositioningParameters | Set of optional parameters for MLP SLIR message, per OMA-TS-MLP-V3\_5-20181211-C [20]:- requested location type (clause 5.3.60).- requested response type (clause 5.3.112.1).- max location age (clause 5.3.65).- response timing required (clause 5.3.106).- response timer (clause 5.3.107).- horizontal accuracy with QoS class (clause 5.3.44).- altitude accuracy with QoS class (clause 5.3.6).- motion state request (clause 5.3.70). | O |
| TaskDetailsExtensions/ExtNetworkInteractionAllowed | Indicates whether external network interaction for the LALS service is permitted or not. If this parameter is not present, the LI-LCS client shall assume that external network interaction for the LALS service is not permitted. By default, interaction with an external network is not allowed for LALS. | C |

\*\*\* End of First Change \*\*\*

\*\*\* Start of Second Change \*\*\*

7.3.1.4 Generation of xIRI over LI\_X2

The IRI-POI provided by the LI-LCS client shall deliver the target location reports to respective MDF(s) as xIRI over the LI\_X2 interface.

**Table 7.3.1.4-1: LALSReport record**

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| --- | --- | --- |
| **Field name** | **Description** | **M/C/O** |
| sUPI | SUPI of the target, if used for the service (see NOTE). | C |
| pEI | PEI of the target, if used for the service (see NOTE). | C |
| gPSI | GPSI of the target, if used for the service (see NOTE). | C |
| location | Location of the target, if obtained successfully.Encoded as a *positioningInfo* parameter (*location>positioningInfo*). Boththe *positionInfo* (*location>positioningInfo>positionInfo*)and the *mLPPositionData* (*location>positioningInfo>rawMLPResponse>mLPPositionData*) are present in the case of successful positioning. In the case of positioning failure only the *mLPErrorCode (location>positioningInfo>rawMLPResponse>mLPErrorCode)* is present. See Annex A. | M |
| NOTE: At least one of the SUPI, PEI or GPSI fields shall be present. |

The LI\_X2 header (as per clause 5.3.2) of the LALSReport record presented in Table 7.3.1.4-1 shall contain the correlation ID (if provided) from a respective LI\_T2 ActivationTask message.

\*\*\* End of Second Change \*\*\*

\*\*\* Start of Third Change \*\*\*

7.3.1.5 Generation of IRI over LI\_HI2

The LALSReport payload, defined in clause 7.3.1.4, shall be used as the payload of the respective LALSReport record, no payload mediation is required.

A LALSReport message shall be assigned the same CIN (see ETSI TS 102 232-1 [9] clause 5.2.4) as the IRI message that triggered the LALS reporting, if that triggering IRI message is assigned a CIN. Otherwise, i.e. when the LALSReport is a result of the LALS Target Positioning, or the triggering IRI message has no CIN assigned, the CIN in the LALSReport shall be omitted.

NOTE: In some specific scenarios the amount of LALS reports data can overload the LI-HI2 and/or LI\_X2 interfaces. To prevent the overload, a flow control for LALS triggered location reports can be implemented in MDF and/or LI-LCS client, e.g. by limiting the frequency of the reports for individual targets.

\*\*\* End of All Changes \*\*\*