**3GPP TSG-SA3 Meeting #79-LI-e-b *s3i200712***

**Online, , 10th Nov 2020 - 12th Nov 2020**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **33.128** | **CR** | **0142** | **rev** | **-** | **Current version:** | **16.4.0** |  |
|  |
| *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:***  | Stage 3 details for LI\_X1 |
|  |  |
| ***Source to WG:*** | SA3-LI (National Technical Assistance) |
| ***Source to TSG:*** |  SA3 |
|  |  |
| ***Work item code:*** | LI16 |  | ***Date:*** | 2020-11-03 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-16 |
|  | *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 are no stage 3 details for the population of the LI\_X1 messages at a general level |
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| ***Summary of change:*** | Additional stage 3 details provided to describe how LI\_X1 should be used |
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| ***Consequences if not approved:*** | Ambiguity in the specification. |
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| ***Clauses affected:*** | 5.2 |
|  |  |
|  | **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 ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

 FIRST CHANGE

## 5.2 Protocols for LI\_X1 and LI\_T interfaces

### 5.2.1 General usage of ETSI TS 103 221-1

Functions having an LI\_X1, LI\_T2 or LI\_T3 interface shall support the use of ETSI TS 103 221-1 [7] to realise the interface.

In the event of a conflict between ETSI TS 103 221-1 [7] and the present document, the terms of the present document shall apply.

The LIPF and MDF2/3 shall maintain a mapping between internal interception identifiers (XIDs) and external interception identifiers (LIIDs), as defined by TS 103 221-1 [7] clause 5.1.2. In case of multiple interceptions for a single target identifier, it is an implementation decision for the LIPF/TF whether multiple XIDs are used (i.e. a one-to-one mapping between XID and LIID is maintained) or whether the single XID is used and mapped to multiple LIIDs at the MDF2/3. Clauses 6 and 7 give further details for specific networks or services (e.g. minimum supported target identifier formats).

In the event that a request issued over the interface fails, or an error is reported, the LIPF should raise an alert in the appropriate LI Operations and Management (O&M) system. Further procedures (e.g. retrying a failed request) are left to CSP policy to define.

A failure of LI shall not impact the target's or other users' services.

In general, and unless otherwise specified, the function playing the role of the "NE" shall:

- Accept CreateDestination and ModifyDestination messages regardless of the DeliveryType

- Reject ActivateTask/ModifyTask messages that contain invalid DIDs; Destinations shall be created before they are used.

- Reject ActivateTask/ModifyTask messages that do not result in at least one valid DID for their DeliveryType (e.g. at least one valid X2 delivery destination for an "X2Only" Task). Additional DIDs for Destinations of other DeliveryTypes (e.g.an "X3Only" Destination for an "X2Only" Task) shall be accepted, but a ReportTaskIssue message may be sent to indicate the mismatch.

Unless otherwise specified, the DeliveryType "X2andX3" shall not be used for Tasks.

### 5.2.2 Usage for realising LI\_X1

For the purposes of realising LI\_X1 between the LIPF and a POI, MDF or TF, the LIPF plays the role of the “ADMF” as defined in ETSI TS 103 221-1 [7] reference model (clause 4.2), and the POI, MDF or TF plays the role of the “NE”.

In general, and unless otherwise specified, the ADMF shall:

* For a warrant specifying IRI-only intercept, send an ActivateTask with “X2Only” and DID for X2 delivery over LI\_X1 to each of the relevant IRI-POI/IRI-TF/MDF2.
* For a warrant specified CC only intercept, send an ActivateTask with “X3Only” and DID for X3 delivery over LI\_X1 to each of the relevant CC-POI/CC-TF/MDF3.
* For a warrant specifying both IRI and CC intercept, send each of the above independently to each relevant function.

### 5.2.3 Usage for realising LI\_X1 (management)

For the purposes of realising LI\_X1 between the LIPF and a triggered POI, the LIPF plays the role of the “ADMF” as defined in ETSI TS 103 221-1 [7] reference model (clause 4.2), and the triggered POI plays the role of the “NE”.

### 5.2.4 Service scoping

The LIPF shall be able to provision the POI, TFs and the MDF2/MDF3 according to the service scoping (see clause 4.4) applicable to a warrant as described in Clause 6.2.1.2 and Annex C of ETSI TS 103 221-1 [7].

### 5.2.5 Usage for realising LI\_T2

For the purposes of realising LI\_T2 between a TF and a triggered POI, the TF plays the role of the “ADMF” as defined in the ETSI TS 103 221-1 [7] reference model (clause 4.2), and the triggered POI plays the role of the “NE”.

In case the TF receives from the Triggered POI an error in the answer to a triggering message, the TF shall send a ReportTaskIssue message to the LIPF. In such case, the failure of LI shall not impact the target's or other users' services.

Unless otherwise specified, a TF shall set the Product ID field in any ActivateTask or ModifyTask message issued to a triggered POI (see ETSI TS 103 221-1 [7] clause 6.2.1.2). The TF shall set the Product ID to the XID of the Task object associated with the interception at the TF in order to allow correlation of LI product at the MDF2.

### 5.2.6 Usage for realising LI\_T3

For the purposes of realising LI\_T3 between a TF and a triggered POI, the TF plays the role of the “ADMF” as defined in the ETSI TS 103 221-1 [7] reference model (clause 4.2), and the triggered POI plays the role of the “NE”.

In case the TF receives from the Triggered POI an error in the answer to a triggering message, the TF shall send a ReportTaskIssue message to the LIPF. In such case, the failure of LI shall not impact the target's or other users' services.

Unless otherwise specified, a TF shall set the Product ID field in any ActivateTask or ModifyTask message issued to a triggered POI (see ETSI TS 103 221-1 [7] clause 6.2.1.2). The TF shall set the Product ID to the XID of the Task object associated with the interception at the TF in order to allow correlation of LI product at the MDF3.

 END OF CHANGES