**3GPP SA3LI#90 S3i230368**

**Prague; June 27-30, 2023**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **33.928** | **CR** | **0003** | **rev** | **-** | **Current version:** | **18.0.0** |  |
|  | | | | | | | | |
| *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:*** | More on LIPF logic diagrams: Top-level views | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | SA3-LI (Nokia, Nokia Shanghai Bell) | | | | | | | | | |
| ***Source to TSG:*** | SA3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | LI18 | | | | |  | ***Date:*** | | | 2023-06-20 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | ***B*** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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 can be 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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | More services were introduced to the TS 33.128 after the initial set of LIPF logic diagrams were created. The TR 33.928 should accommodate those aspects as well. This CR provides new diagrams to illustrate the top-level views of LIPF logic. | | | | | | | | |
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| ***Summary of change:*** | | Top-level views proposed include new logic to illustrate initial configuration.and call-out to service-based LI provisioning. | | | | | | | | |
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| ***Consequences if not approved:*** | | The LIPF logic will not be aligned to the TS 33.128. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.x (new) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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.x Top-level views

### 5.x.1 The LIPF logic

The flow-chart in figure 5.x.1-1 shows a top-level view of LIPF logic,



**Figure 5.x.1-1: Top-level view of LIPF logic**

The LIPF logic for initial configuration includes the provisioning steps performed by the LIPF (see clause 5.x.2) that are not based off of a warrant. The LI provisioning logic in LIPF includes the provisioning steps performed by the LIPF (see clause 5.x.3) for a warrant.

### 5.x.2 LIPF logic for initial configuration

The flow-chart in figure 5.x.2-1 shows LIPF logic for the initial configuration.

The provisioning for Identity Association Caching is not based on a warrant and therefore, is considered as a part of initial configuration. Likewise, part of the S8HR/N9HR LI also requires some initial configuration (see clause 5.5.2).



**Figure 5.x.2-1: LIPF logic for the initial configuration**

The details of initial configuration for N9HR/S8HR are illustrated in figure 5.5.2-1 (clause 5.5.2). The initial configuration of Identity Association Caching is required if and only if the CSP has deployed the Identity Association Caching service. Likewise, the initial configuration for N9HR/S8HR is required if and only if the interception of voice calls for inbound roaming targets is required in a home-routed roaming scenario.

### 5.x.3 LI provisioning logic in LIPF

The figure 5.x.3-1 shows a top-level view of LI provisioning logic in the LIPF,

When Location Acquisition service is deployed in the CSP network, a warrant may be received to authorize Location Acquisition service for the targeted user. This may be a standalone warrant of its own or may be tagged along with the warrant issued to perform the service-based interception.



Figure 5.x.3-1: Top-level view of LI provisioning logic in LIPF

The details of LI provisioning logic for Location Acquisition are illustrated in clause 5.y. The details of service-based LI provisioning logic in LIPF are illustrated in clause 5.3.1.

### \*\* End of all changes \*\*