**3GPP SA3LI#90 S3i230427**

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

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **33.928** | **CR** | **0007** | **rev** | **1** | **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: Logic of LI privisioning for AKMA | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | SA3-LI (Nokia, Nokia Shanghai Bell, NDRE) | | | | | | | | | |
| ***Source to TSG:*** | SA3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | LI18 | | | | |  | ***Date:*** | | | 2023-06-29 |
|  |  | | | |  | |  | | |  |
| ***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 adds LIPF logic diagrams to illustrate the LI provisioning for AKMA. | | | | | | | | |
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| ***Summary of change:*** | | New logic to illustrate the LI provisioning for AKMA is added. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The LIPF logic will not be aligned to the TS 33.128. | | | | | | | | |
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| ***Clauses affected:*** | | 5.4.3.x. | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | S3i230373 | | | | | | | | |

### \*\* First Change \*\*

#### 5.4.3.x LI provisioning for additional data services

##### 5.4.3.x.1 LI provisioning for AKMA

LI provisioning for AKMA is required when there is a need to provide the interception of encryption services between the target UE and the application function that makes use of AKMA-provided cryptographic keys (see TS 33.128 [4]).

Figure 5.4.3.x.1-1 shows the LIPF logic for provisioning the LI functions in AAnF for AKMA.



Figure 5.4.3.x.1-1: LI provisioning for AKMA

Within the figure, SUPI collectively represents SUPIIMSI and SUPINAI. AKMA stands for Authentication and Key Management for Applications. AAnF is the AKMA Anchor Function. AF is the Application Function.

The table 5.4.3.x.1-1 provides the scope of NF domain providing the LI functions for AKMA.

Table 5.4.3.x.1-1: Scope of NF domain providing the LI functions for AKMA

|  |  |
| --- | --- |
| NFs with the LI function | LI function |
| AAnF | IRI-POI |
| AAnF | IRI-TF |
| AF | IRI-POI |

NOTE: MDF2 which is also involved in providing the LI function is not shown in the tables above.

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