**3GPP SA3LI#90 S3i230429**

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **33.928** | **CR** | **0009** | **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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | More on LIPF logic diagrams: Logic of LI privisioning for ECS | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | SA3-LI (Nokia, Nokia Shanghai Bell, Ministére de l’économie et finances) | | | | | | | | | |
| ***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 ECS. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | New logic to illustrate the LI provisioning for ECS is added. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The LIPF logic will not be aligned to the TS 33.128. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.4.3.x.3 (new). | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ...S3i230427, S3i230428 | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | | 5.4.3.x, 5.4.3.x.1 are defined in S3i230427. 5.4.3.x.2 is defiend in S3i230428. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | S3i230375 | | | | | | | | |

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

##### 5.4.3.x.3 LI provisioning for Edge Computing Service

The Edge Computing Service (ECS) may be provided by the CSP or a third party service provider. Either way, the service provider that provides the ECS will have to provide the LI functions. EES present in the ECS provider's network provides the LI functions. When CSP provides the ECS, the LI applies only when target is non-roaming or inbound roaming. The details of this are described in TS 33.128 [4].

Figure 5.4.3.x.3-1 shows the LIPF logic for provisioning the LI functions in EES for ECS.



Figure 5.4.3.x.3-1: LI provisioning for ECS

Within figure 5.4.3.x.3-1, GPSI collectively represents GPSIMSISDN and GPSINAI. The EECID (EEC Identifier) is ECS specific.

The table 5.4.3.x.3-1 provides the scope of NF domain providing the LI functions for ECS.

Table 5.4.3.x.3-1: Scope of NF domain providing the LI functions for ECS

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| NF with the LI function | CSP provides ECS | | | ECS is provided by third party provider | | | |
| CSP | | | ECS provider |
| Roaming | | | Roaming | | |
| Not | Outbound | Inbound | Not | Outbound | Inbound |
| EES | IRI-POI | n/a | IRI-POI | n/a | n/a | n/a | IRI-POI |

NOTE 1: The use of "n/a" in the above table implies that the LI function is not applicable to the EES for the indicated scenario.

NOTE 2: The LIPF is not aware of the roaming situations of the target.

NOTE 3: MDF2 which is also involved in providing the LI function is not shown in the tables above.

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