**3GPP TSG-SA3 Meeting #84-LI-e-a *s3i220023***

**Online, , 24th Jan 2022 - 28th Jan 2022**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **33.127** | **CR** | **0157** | **rev** | **1** | **Current version:** | **17.3.0** |  |
|  |
| *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:***  | Enhancements to LI at the UDM Stage 2 |
|  |  |
| ***Source to WG:*** | SA3LI (OTD) |
| ***Source to TSG:*** | SA3 |
|  |  |
| ***Work item code:*** | LI17 |  | ***Date:*** | 2022-01-25 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
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| ***Reason for change:*** | Currently 33.128 defines a Location Information request that can also occur in other scenarios. These have been added. Additionally, the UE Information and Authentication procedures are added to 33.127 for reporting via 33.128 mechanisms.  |
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| ***Summary of change:*** | Add text to 7.2.2.4 to describe Location information result, UE information request, and UE authentication report.  |
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| ***Consequences if not approved:*** | CSPs may not be able to fully meet their LI obligations. Data available at the UDM may not be reported to LEAs.  |
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| ***Clauses affected:*** | 7.2.2.4 |
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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 ...  |
|  |  |
| ***Other comments:*** | Related to CR 0302 (s3i220022) (TS 33.128) |
|  |  |
| ***This CR's revision history:*** | S3i220023 |

Beginning of Changes

Beginning of First Change

#### 7.2.2.4 IRI events

The IRI-POI present in the UDM shall generate xIRI, when the UDM detects the following specific events or information:

- Serving system.

- Subscriber record change.

- Cancel location.

- Location information request.

- Location information result.

- UE information request.

- UE authentication report.

A serving system xIRI is generated when the IRI-POI present in the UDM detects the target UE registration or re-registration related notifications. The AMF Id or the MME Id, or the VPLMN Id (when the other two are not known) is used as the serving system identifier in a serving system xIRI.

NOTE: The serving system xIRI may carry the information of one or more serving systems based on the target UE's network connectivity.

A subscriber record change xIRI is generated when the IRI-POI present in the UDM detects that the associated GPSI, or SUPI, or PEI is changed. In addition, a subscriber record change xIRI is generated when the associated GPSI or, SUPI, or PEI is de-provisioned. A subscriber record change xIRI is also generated when the target UE's user service identifiers are modified (e.g. subscribed S-NSSAIs, subscribed CAG).

A cancel location xIRI is generated when the IRI-POI present in the UDM detects that a de-registration notification is sent, or received, by the UDM.

A location information request xIRI is generated when the IRI-POI present in the UDM detects that the UDM received a query for the location information of the target UE from a different PLMN (e.g. inbound SMS routing) with a known PLMN Id.

A location information result xIRI is generated when the IRI-POI in the UDM detects that the UDM received a LocationInfoRequest from an NF service consumer (e.g. HSS) and responds with a LocationInfoResult to the NF service consumer. Additionally, a location information result xIRI may be generated when the IRI-POI in the UDM detects that an NF service consumer (e.g. (H)GMLC) sent a request to the UDM to retrieve the UE's Location Information and the location was returned.

A UE information request xIRI is generated when the IRI-POI present in the UDM detects that the UDM received a ProvideUeInfo request and returns a UeInfo response.

A UE authentication report xIRI is generated when the IRI-POI present in the UDM detects that the UDM received an authentication info request from the HSS or AUSF and an authentication info result is sent. End of First Change

End of All Changes