**3GPP TSG-SA3 Meeting #87-LI-e-a *s3i220529***

**Online, , 5th Oct 2022 - 7th Oct 2022**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **33.127** | **CR** | **0185** | **rev** | **1** | **Current version:** | **18.1.0** |  |
|  |
| *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:***  | Addition of UDM Start of Intercept and De-Reg Records Stage 2 |
|  |  |
| ***Source to WG:*** | SA3-LI (OTD) |
| ***Source to TSG:*** | SA3 |
|  |  |
| ***Work item code:*** | LI18 |  | ***Date:*** | 2022-10-06 |
|  |  |  |  |  |
| ***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 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, there is no support for start of interception for a target identifier already registered at the UDM. Additionally, the CR corrects the usage of the cancel location xIRI. This CR adds the Stage 2 for these messages. |
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| ***Summary of change:*** | Add new xIRI to clause 7.2.2.4 to support start of interception with already registered target identifier. Supplement the description of the xIRI generation for cancel location. |
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| ***Consequences if not approved:*** |  The LI solution will remain incomplete and not all available information will be sent 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:*** | This CR has related Stage 3 in s3i220528 |
|  |  |
| ***This CR's revision history:*** | S3i220529 |

START OF CHANGES

START 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 response.

- UE authentication response.

- Start of interception with target already registered at the UDM.

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 cancel location xIRI is also generated when the IRI-POI present in the UDM detects that the UDM has sent a cancel location indicator to the AMF due to target de-registration.

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 (i.e. HSS) and responds with a LocationInfoResult to the NF service consumer.

A UE information response 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 response 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.A start of interception with already registered target xIRI is generated with the IRI-POI in the UDM detects that interception is activated on a identifier that has existing registration context information at the UDM.

END OF FIRST CHANGE

END OF ALL CHANGES