**3GPP TSG- Meeting #**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** |  | **rev** | **1** | **Current version:** |  |  |
|  |
| *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:***  |  |
|  |  |
| ***Source to WG:*** | SA3-LI (, Rogers Communications Canada) |
| ***Source to TSG:*** | SA3 |
|  |  |
| ***Work item code:*** |  |  | ***Date:*** | 25 April 2023 |
|  |  |  |  |  |
| ***Category:*** |  |  | ***Release:*** |  |
|  | *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:*** | There is some confusion surrounding applicability of the current UDM Subscriber Record Change in cases when the associations between long-term target IDs change. It needs to be clarified that the UDM Subscriber Record Change in such cases is used only when an ID other than SUPI changes. A new record type is needed for when a targeted (either explicitly or implicitly) PEI gets associated with a new UDM context and SUPI. This CR adds and IRI event for such occurrence. |
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| ***Summary of change:*** | Add new xIRI to 7.2.2.4, add description in same clause. |
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| ***Consequences if not approved:*** | Specification will remain unclear. Information may not be delivered 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 s3i230266 |
|  |  |
| ***This CR's revision history:*** |  |

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.

- Update of PEI to SUPI association.

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 GPSI, or SUPI, or PEI associated to the target has changed. In addition, a subscriber record change xIRI is generated when the associated GPSI or, SUPI, or PEI for the target is de-provisioned. A subscriber record change xIRI is also generated when the target’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 for the target. 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) for the target 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 for the target UE 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 for the target UE from the HSS or AUSF and an authentication info result is sent.

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

A Update of PEI to SUPI association xIRI is generated when the IRI-POI in the UDM detects that a targeted (either explicitly in a warrant, or implicitly by association with a targeted SUPI) PEI gets associated with a new SUPI (e.g. as a result of SIM card swap).

END OF FIRST CHANGE

END OF ALL CHANGES