**3GPP TSG-SA3 Meeting #85-LI-e *s3i220230***

**Online, , 25th Apr 2022 - 29th Apr 2022**

|  |
| --- |
| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **33.128** | **CR** | **0350** | **rev** | **1** | **Current version:** | **17.4.0** |  |
|  |
| *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:***  |  |
|  |  |
| ***Source to WG:*** | SA3-LI (OTD) |
| ***Source to TSG:*** | SA3 |
|  |  |
| ***Work item code:*** | LI17 |  | ***Date:*** | 2022-04-25 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***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)* |
|  |  |
| ***Reason for change:*** | Missing newly added xRI-IRI generation messages from Table 7.2.2-4. Changes necessary for proper specification alignment.  |
|  |  |
| ***Summary of change:*** | Adds three new xRI messages to table.  |
|  |  |
| ***Consequences if not approved:*** | Incorrect and incomplete table.  |
|  |  |
| ***Clauses affected:*** | 7.2.2.4 |
|  |  |
|  | **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:*** | s3i220230 |

BEGIN FIRST CHANGE

##### 7.2.2.3.6 Location information result

The IRI-POI in the UDM shall generate an xIRI containing the UDMLocationInformationResult record when it detects the following events:

- When UDM receives the LocationInfoRequest from an NF service consumer (i.e. HSS) as part of Nudm\_MT\_ProvideLocationInfo service operation (see TS 29.503 [25], clause 6.7.6.2.3) and the UDM sends the LocationInfoResult as part of Nudm\_MT\_ProvideLocationInfo service operation (see TS 29.503 [25], clause 6.7.6.2.4).

When a target UE is registered to both 3GPP and non-3GPP access, two separate xIRIs each containing the LocationInfoResult report record may be generated by the IRI-POI in the UDM.

Table 7.2.2.3.6-1: Payload for UDMLocationInformationResult record

|  |  |  |
| --- | --- | --- |
| Field name | Description | M/C/O |
| sUPI | SUPI currently associated with the target, see TS 29.571 [17]. | M |
| pEI | PEI currently associated with the target UE, when known, see TS 29.571 [17]. | C |
| gPSI | GPSI currently associated with the target UE, when known, see TS 29.571 [17]. | C |
| locationInfoRequest | Indicates the information received from the HSS in the LocationInfoRequest. At least one of the parameters in Table 7.2.2.3.6-2 shall be included. See NOTE below table 7.2.2.3.6-2. | M |
| vPLMNId | PLMNID of the visited PLMN, if UE is currently registered to visited network. | C |
| currentLocationIndicator | Shall indicate if the UE location is current or last known. Include if provided in the LocationInfoResult. | C |
| aMFinstanceID | Provides the NF instance ID of the serving AMF for 3GPP access. Shall be included if provided in the LocationInfoResult. | C |
| sMSFinstanceID | Provides the NF instance ID of the serving SMSF. Shall be included if provided in the LocationInfoResult. | C |
| location | Location information available at the UDM at the time of the LocationInfoRequest, include if in LocationInfoResult. | C |
| rATType | Shall provide the current RAT type of the UE, if present in the LocationInfoResult. | C |
| problemDetails | Indicates the reason for LocationInfoResult failure. See TS 29.571 [17], clause 5.2.4.1. Shall be included if provided in the LocationInfoResult. | C |

Table 7.2.2.3.6-2: Payload for LocationInfoRequest parameter

|  |  |
| --- | --- |
| Field name | Description |
| req5GSLocation | Boolean that indicates If 5GS location is requested. |
| reqCurrentLocation | Boolean that indicates if current location is requested. |
| reqRatType | Boolean indicates if Rat Type is requested.  |
| reqTimeZone | Boolean indicates if time zone is requested.  |
| reqServingNode | Boolean indicates if serving node instance ID is requested.  |

NOTE: The absence of one or more of the parameters in table 7.2.2.3.6-2 assumes that it was not included in the LocationInfoRequest.

END OF FIRST CHANGE

BEGIN SECOND CHANGE

7.2.2.4 Generation of IRI over LI\_HI2

When an xIRI is received over LI\_X2 from the IRI-POI in UDM, the MDF2 shall send an IRI message over LI\_HI2 without undue delay.

The timestamp field of the PSHeader structure shall be set to the time that the UDM event was observed (i.e. the timestamp field of the xIRI).

The IRI type parameter (see ETSI TS 102 232-1 [9] clause 5.2.10) shall be included and coded according to table 7.2.2-4.

**Table 7.2.2-4: IRI type for IRI messages**

|  |  |
| --- | --- |
| **IRI message** | **IRI type** |
| UDMServingSystem | REPORT |
| UDMSubscriberRecordChange | REPORT |
| UDMCancelLocation | REPORT |
| UDMLocationInformationResult | REPORT |
| UDMUEInformationResponse | REPORT |
| UDMUEAuthenticationResponse | REPORT |

END SECOND CHANGE

END OF CHANGES