**3GPP TSG- Meeting #**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  |  | **CR** |  | **rev** |  | **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:*** |  | | | | | | | | | |
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| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
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| ***Work item code:*** |  | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***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 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:*** | | Aligning the current specification with changes made by CT. | | | | | | | | |
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| ***Summary of change:*** | | Added missing fields to the Enumerated ASN.1 for the UDMDeregReason | | | | | | | | |
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| ***Consequences if not approved:*** | | CSPs may not be able to meet their lawful obligations. The specification and record will remain incomplete. | | | | | | | | |
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| ***Clauses affected:*** | | 7.2.2.3.4, Annex A. | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | Merge Request: [!193](https://forge.3gpp.org/rep/sa3/li/-/merge_requests/193)  Commit Hash: [d064d08326e03773d96686af760ac81365c62f5e](https://forge.3gpp.org/rep/sa3/li/-/commit/d064d08326e03773d96686af760ac81365c62f5e) | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | s3i230389 | | | | | | | | |

### \*\*\*\* START OF FIRST CHANGE (MAIN DOCUMENT) \*\*\*

##### 7.2.2.3.4 Cancel location

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

- When the UDM sends DeregistrationData to AMF as part of the Nudm\_UEContextManagement DeregistrationNotification service operation (see TS 29.503 [25] clause 5.3.2.3.2) (e.g. to cancel location retrieval operations).

- When the UDM receives the Amf3GppAccessRegistrationModification with purgeFlag set to true from the AMF as part of Nudm\_UEContextManagement Deregistration service operation (see TS 29.503 [25] clause 5.3.2.4.2).

- When UDM receives the AmfNon3GppAccessRegistrationModification with purgeFlag set to true from the AMF as part of Nudm\_UEContextManagement Deregistration service operation (see TS 29.503 [25] clause 5.3.2.4.3).

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

NOTE: Invocation of the Nudm\_UEContextManagement Deregistration service operation in the case of UE deregistration is an implementation option (see TS 23.502 [4], clause 4.5.3). Consequently, the UDMCancel Location xIRI in such case is only generated if this option is supported by the serving network.

Table 7.2.2.3.4-1: Payload for UDMCancelLocationMessage record

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field name | Type | Cardinality | Description | M/C/O |
| sUPI | SUPI | 1 | SUPI associated with the target UE, see TS 29.571 [17]. | M |
| pEI | PEI | 0..1 | PEI associated with the target UE, when known, see TS 29.571 [17]. | C |
| gPSI | GPSI | 0..1 | GPSI associated with the target UE, when known, see TS 29.571 [17]. | C |
| gUAMI | GUAMI | 0..1 | Previous serving AMF’s GUAMI, when known. See NOTE 1. | C |
| pLMNID | PLMNID | 0..1 | Previous serving PLMN ID. See TS 29.571 [17]. See NOTE 2. | C |
| cancelLocationMethod | UDMCancelLocationMethod | 1 | Identifies method used to access the serving system, see NOTE 3. | M |
| aMFDeregistrationInfo | UDMAMFDeregistrationInfo | 0..1 | Shall include the information sent in the AMF Registration Modification patch record to the UDM (with purgeFlag set to true), including cause information. See TS 29.503 [25] clause 6.2.6.2.7. | C |
| deregistrationData | UDMDeregistrationData | 0..1 | Shall identify the reason for the deregistration included in the deregistration notification sent by the UDM. See TS 29.503 [25] clauses 6.2.6.2.5 and 6.2.6.3.3. | C |

NOTE 1: GUAMI is the global unique identifier of an AMF [2] and its format is defined in TS 29.571 [17]. As defined in TS 23.501 [2] clause 5.9.4, GUAMI consists of <MCC> <MNC> <AMF Region ID> <AMF Set ID> <AMF Pointer>. The GUAMI is reported if the UDM receives the same from the AMF.

NOTE 2: PLMN ID provides the vPLMN ID when the target UE is roaming.

NOTE 3: This identifies whether the xIRI containing the UDMCancelLocationMessage record is generated due to the reception of a UDM deregistration, and AMF 3GPP Access deregistration, or an AMF Non 3GPP access deregistration.

The IRI-POI present in the UDM generating an xIRI containing an UDMCancelLocationMessage record shall set the Payload Direction field in the PDU header to *not applicable* (Direction Value 5, see ETSI TS 103 221-2 [8] clause 5.2.6).

TS 29.571 [17] requires that the encoding of 3GPP defined identifiers (e.g. IMSI, NAI) shall be prefixed with its corresponding prefix (e.g. with reference to SUPI it requires 'imsi-','nai-'). However, identifiers and parameters shall be coded over the LI\_X2 and LI\_HI2 according to Annex A of the present document, so without the prefix specified in TS 29.571 [17].

## \*\*\*\* END OF MAIN DOCUMENTS CHANGES \*\*\*

## \*\*\*\* START OF ATTACHMENT CHANGE \*\*\*

---a/33128/r18/TS33128Payloads.asn  
+++b/33128/r18/TS33128Payloads.asn

@@ -2837,7 +2837,9 @@ UDMDeregReason ::= ENUMERATED

2837 2837 reregistrationRequired(6),

2838 2838 sMFContextTransferred(7),

2839 2839 duplicatePDUSession(8),

2840 - fiveGSRVCCToUTRANMobility(9)

- 2840 fiveGSRVCCToUTRANMobility(9),

- 2841 pDUSessionReactivationRequired(10),

- 2842 disasterConditionTerminated(11)

2841 2843 }

2842 2844 -- ===================

2843 2845 -- 5G SMSF definitions

\*\*\*\* END OF ATTACHMENT CHANGES \*\*\*

\*\*\*\* END OF ALL CHANGES \*\*\*