**3GPP SA3LI#86b *S3i220444***

**30 Aug – 02 Sep 2022**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **33.128** | **CR** | **400** | **rev** | **1** | **Current version:** | **16.11.0** |  |
|  | | | | | | | | |
| *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:*** | Provision of NRCellIdentity and TrackingAreaCode to be optional in case of T2P query | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | SA3-LI (ZITiS) | | | | | | | | | |
| ***Source to TSG:*** | SA3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | LI16 | | | | |  | ***Date:*** | | | 2022-08-30 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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:*** | | NRCellIdentity and TrackingAreaCode may not always be available to be provided by the LEA as request parameter in case of a T2P identifier association query but currently the provision of both NRCellIdentity as well as TrackingAreaCode is described as mandatory. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The provision of the NRCellIdentity and TrackingAreaCode is changed to optional in case of a T2P query. This is also in line with the description prvided in TS 33.127 (stage2). | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | LEA might not always be able to provide a valid NRCellIdentity and TrackingAreaCode but need to fill some dummy identifier instead. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.7.2.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 a Rel-17(CR 401) as well as Rel-18 (CR 402) mirror | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | S3i220444, | | | | | | | | |

\*\*\* FIRST CHANGE \*\*\*

#### 5.7.2.2 Request parameters

The RequestValues field shall contain one of the following:

- SUPI, given in either SUPIIMSI or SUPINAI formats as defined in ETSI TS 103 120 [6] clause C.2.

- SUCI, given as defined in Table 5.7.2-4 below.

- 5G-S-TMSI, given as defined in Table 5.7.2-4 below.

- 5G-GUTI, given as defined in Table 5.7.2-4 below.

If the RequestType is "OngoingIdentityAssociation" (see Table 5.7.2-3), SUPI is the only valid identity type in the RequestValues field. If the RequestType is “OngoingIdentityAssociation” and any other identity type is provided, the IQF shall signal the error by setting the LDTaskObject Status to "Invalid" (see TS 103 120 [6] clause 8.3.3).

If a temporary identity is provided, the following may also be present as RequestValues:

- NRCellIdentity, given as defined in Table 5.7.2-4 below.

- TrackingAreaCode, given as defined in Table 5.7.2-4 below.

NOTE : If the LEA is unable to provide the tracking area associated with an observed temporary identifier this may prevent the CSP from uniquely associating the identifier to the correct UE in case the request is based on the 5GSTMSI.

The following RequestValue FormatTypes (see ETSI TS 103 120 [6] clause 8.3.5.4) are defined (which are not otherwise defined elsewhere).

Table 5.7.2-4: RequestValue FormatType extensions for LI\_HIQR Requests

| Format Owner | Format Name | Description | Format |
| --- | --- | --- | --- |
| 3GPP | SUCI | Subscription Concealed Identifier as per TS 23.003 [19] clause 2.2B. | TS 29.509 [45] clause 6.1.6.3.2 |
| 3GPP | 5GSTMSI | Shortened form of the 5G-GUTI as defined in TS 23.003 [19] clause 2.11. Given as a hyphen-separated concatenation of:  - The string "5gstmsi".  - The AMF Set ID given as three hexadecimal digits (10 bits).  - The AMF Pointer given as two hexadecimal digits (6 bits).  - The 5G-TMSI given as eight hexadecimal digits (32 bits) | Matches regular expression:  ^(5gstmsi-([0-3][0-9A-Fa-f]{2})-([0-3][0-9A-Fa-f])-([0-9A-Fa-f]{8}))$ |
| 3GPP | 5GGUTI | As defined in TS 23.003 [19] clause 2.10. Given as a hyphen separated concatenation of:  - The string "5gguti".  - MCC given as a three decimal digits.  - MNC given as a two or three digit decimal digits  - AMF Region ID given as two hexadecimal digits (8 bits).  - The AMF Set ID, AMF Pointer and 5G-TMSI as defined above in 5GSTMSI | Matches regular expression:  ^(5gguti-([0-9]{3})-([0-9]{2,3})-([0-9A-Fa-f]{2})-([0-3][0-9A-Fa-f]{2})-([0-3][0-9A-Fa-f])-([0-9A-Fa-f]{8}))$ |
| 3GPP | NRCellIdentity | NR Cell ID (NCI), as defined in TS 23.003 [19] clause 19.6A | TS 29.571 [17] clause 5.4.2 |
| 3GPP | TrackingAreaCode | Tracking area code as defined in TS 23.003 [19] clause 19.4.2.3 | TS 29.571 [17] clause 5.4.2 |

\*\*\* END OF FIRST CHANGE \*\*\*

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