**3GPP TSG- Meeting #**

**, , -**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The query architecture was unable to meet the requirements in TS 33.126 R6.3 - 270 to provide cell site information when a cell identity has been reported. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Added the requirement to support delivery of cell site information from the IQF. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The current capability will remain unable to fulfill the requirements to provide cell site information when a cell identity has been reported. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.7.2.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 an associated stage 3 CR for TS 33.128 in s3i240448 | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | s3i240447 | | | | | | | | |

## \*\*\*\* START OF FIRST CHANGE \*\*\*\*

#### 5.7.2.1 Identity Query Function (IQF)

The IQF is the function responsible for receiving and responding to dedicated LEA real-time queries for identifier associations. The IQF is a sub-function of the ADMF.

On receiving a valid query, the IQF shall query the ICF in order to obtain the required mapped identities. The IQF shall be able to support both association from permanent identifiers to temporary identifiers and from temporary identifiers to permanent identifiers.

NOTE 1: Only queries based on applicable subscription permanent identifiers or associated temporary identifiers are supported by the present document. Queries based on ME hardware identifiers or communications services identifiers (e.g. E.164 numbers) are not supported by the IQF.

NOTE 2: A specific query response to the LEA may require both permanent and temporary identifiers to be returned in a single response for a given query. For example, if an LEA queries using a temporary identifier, then it may be necessary to respond with a permanent identifier, plus other associated temporary identifiers in order to fulfil the query.

The IQF shall only support queries that are received from the LEA within the caching duration and shall reject any queries from the LEA which fall outside those time limits.

NOTE 3: It may not always be possible for the CSP to provide an answer due to association information no longer being available in the network. The IQF shall provide support for multiple LEA scenarios. The IQF shall be able to support different query constraints for different LEAs.

NOTE 4: Since IEF event generation and ICF temporary caching applies to all UEs served by the parent NF, any multiple LEA scenarios or differences in requirements are handled by the IQF only and no specific support is provided by IEF or ICF.

The IQF shall support both query and response types as defined in clause 5.7.1.

The IQF shall support the capability to provide CSI data as defined in clause 7.3.4.

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

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