**3GPP TSG-CT WG4 Meeting #111-eC4-224202v1**

**E-Meeting, 18th – 26th August 2022**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **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:*** | Clarification on GUAMI List in BackupAmfInfo | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** | CT4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***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:*** | | In the definitoin of BackupAmfInfo, it is not clear whether the GUAMI list belongs to the primary AMF or belongs to the backup AMF, since the GUAMI list description is ambiguous.  Currently, the BackupAmfInfo is included by the AMF (i.e. the primary AMF) to e.g. SMF/UDM to indicate the information of the backup AMF. For example, the BackupAmfInfo is included in Create SM Context request to the SMF. When the SMF detects the primary AMF fails, it can use the BackupAmfInfo to find the backup AMF, e.g. by querying the NRF using the GUAMI list presented in BackupAmfInfo.  Two different interpretations are found to this GUAMI list in BackupAmfInfo:  1) It indicates the GUAMI list supported by the primary AMF. The SMF/UDM uses this GUAMI list to query the NRF, e.g. expect the NRF to compare the GUAMI list with backupAmfInfoFailure/backupAmfInfoRemoval attribute in NF profile to find the backup AMF;  2) It indicates the GUAMI list which can be supported by the backup AMF. The SMF/UDM uses this GUAMI list to query the NRF, e.g. expect the NRF to compare the GUAMI list with guamiList attribute in NF profile to find the backup AMF.  The original usage of this BackupAmfInfo is (1) when the BackupAmfInfo is introduced. However, the current description is easy to casue mis-understanding to readers that it may be used as (2). | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Clarify that the GUAMI list in the BackupAmfInfo belongs to the primary AMF but not the backup AMF. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Ambiguity exist in the specification that may cause mis-understanding to the GUAMI list in the BackupAmfInfo. Such ambiguity may easily cause potential interoperatability issue. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.4.4.13 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 does not introduce any change to the OpenAPI file. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | Rev#1:  - Text improvements to the description. | | | | | | | | |

\* \* \* Begin of Changes \* \* \* \*

#### 5.4.4.13 Type: BackupAmfInfo

Table 5.4.4.13-1: Definition of type BackupAmfInfo

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| backupAmf | AmfName | M | 1 | This IE shall contain the AMF name of the backup AMF that can serve the specific GUAMI(s) supported by the primary AMF (see clause 5.21.2.3 of 3GPP TS 23.501 [8]). |
| guamiList | array(Guami) | C | 1..N | If present, this IE shall contain the list of GUAMI(s) (supported by the primary AMF) which the backup AMF can serve.  If this IE is absent, it indicates that the backup AMF can serve all the GUAMI(s) supported by the primary AMF. |

\* \* \* End of Changes \* \* \* \*