**3GPP TSG-CT WG4 Meeting #111-eC4-224425**

**E-Meeting, 18th – 26th August 2022** *Revision of C4-224386, 4399*

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.518** | **CR** | **0787** | **rev** | **2** | **Current version:** | **17.6.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

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|  | | | | | | | | | | |
| ***Title:*** | Clarification to OperationStatus | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | CT4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5MBS | | | | |  | ***Date:*** | | | 2022-08-10 |
|  |  | | | |  | |  | | |  |
| ***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 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) lRel-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:*** | | Step 11 in clause 7.3.1 of TS 23.247 specifies the following, quote:  If the AMF does not receive responses from all NG-RAN nodes before the maximum response time elapses since the reception of the Namf\_MBSBroadcast\_ContextCreate Request, then the AMF should transfer the Namf\_MBSBroadcast\_ContextStatusNotify request () which indicates partial success or failure.  Stage 3 wise, in the 'ContextCreateRspData' and 'ContextStatusNotification' data structures the abnormal use cases are not specified. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | A NOTE is added to ContextCreateRspData and ContextStatusNotification data structures. Also, editorials are applied to respective tables (French is changed to UK English and extra period is replaced with a whitespace character. Another NOTE is added to Table 6.5.6.3.3-1. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Handling of abnormal cases remains unspecified. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6.5.6.2.3, 6.5.6.2.4, 6.5.6.2.6, 6.5.6.3.3. | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 alter OpenAPIs. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | Rev1: Proposal is revised, changes to clasue 6.5.6.3.3 are added and the cover sheet is updated accordingly.  Rev2: To be filled | | | | | | | | |

\* \* \* First Change \* \* \* \*

6.5.6.2.3 Type: ContextCreateRspData

**Table 6.5.6.2.3-1: Definition of type ContextCreateRspData**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Attribute name** | **Data type** | **P** | **Cardinality** | **Description** |
| mbsSessionId | MbsSessionId | M | 1 | MBS session identifier. |
| n2MbsSmInfoList | array(N2MbsSmInfo) | O | 1..10 | When present, this IE shall contain N2 MBS Session Management related information (see clause 6.5.6.4). |
| operationStatus | OperationStatus | C | 0..1 | This IE shall be present and indicate the completion or incompletion of the MBS session start operation, whether the AMF received the NG-RAN responses from all involved NG-RAN(s). NOTE. |
| NOTE: If this IE is not present, it indicates no response is received from NG-RANs, while the AMF has to send ContextCreateRspData. | | | | |

\* \* \* 2nd Change \* \* \* \*

6.5.6.2.4 Type: ContextStatusNotification

**Table 6.5.6.2.4-1: Definition of type ContextStatusNotification**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Attribute name** | **Data type** | **P** | **Cardinality** | **Description** |
| mbsSessionId | MbsSessionId | M | 1 | MBS Session ID |
| areaSessionId | AreaSessionId | C | 0..1 | Area Session ID  This IE shall be present if this is a Location dependent broadcast MBS service. |
| n2MbsSmInfoList | array(N2MbsSmInfo) | O | 1..10 | When present, this IE shall contain N2 MBS Session Management related information (see clause 6.5.6.4). |
| operationStatus | OperationStatus | C | 0..1 | This IE shall be present and indicate the completion of the MBS session start or update operation, if the NF Service Consumer has requested to establish or update the Broadcast MBS session context and a response has been received from all NG-RANs.  This IE shall be present and indicate the incompletion of the MBS session start or update operation, if the NF Service Consumer has requested to establish or update the Broadcast MBS session context within a maximum response time and the AMF has not received responses from all NG-RANs before the maximum response time elapses. NOTE. |
| operationEvents | array(operationEvent) | O | 1..N | This IE may be present to report a list of operation events related to the Broadcast MB Session. |
| NOTE: If this IE is not present, it indicates no response is received from NG-RANs, while the AMF has to send ContextStatusNotification. | | | | |

\* \* \* 3rd Change \* \* \* \*

##### 6.5.6.2.6 Type: ContextUpdateRspData

Table 6.5.6.2.6-1: Definition of type ContextUpdateRspData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description |
| n2MbsSmInfoList | array(N2MbsSmInfo) | O | 1..10 | When present, this IE shall contain N2 MBS Session Management related information (see clause 6.5.6.4). |
| operationStatus | OperationStatus | C | 0..1 | This IE shall be present and indicate the completion or incompletion of the MBS session start operation, whether the AMF received the NG-RAN responses from all involved NG-RAN(s). NOTE. |
| NOTE: If this IE is not present, it indicates no response is received from NG-RANs, while the AMF has to send ContextUpdateRspData. | | | | |

\* \* \* 4th Change \* \* \* \*

##### 6.5.6.3.3 Enumeration: OperationStatus

The enumeration OperationStatus represents the status of a Broadcast MBS session start or update operation.

Table 6.5.6.3.3-1: Enumeration OperationStatus

|  |  |
| --- | --- |
| Enumeration value | Description |
| "MBS\_SESSION\_START\_COMPLETE" | This value indicates the completion of the Broadcast MBS session establishment, i.e. that the AMF has received a response from all NG-RANs. NOTE. |
| " MBS\_SESSION\_START\_INCOMPLETE" | This value indicates the incompletion of the Broadcast MBS session establishment because the AMF has not received responses from all NG-RANs before the maximum response time that was indicated in the request elapses. |
| "MBS\_SESSION\_UPDATE\_COMPLETE" | This value indicates the completion of the Broadcast MBS session update, i.e. that the AMF has received a response from all NG-RANs. NOTE. |
| " MBS\_SESSION\_UPDATE\_INCOMPLETE" | This value indicates incompletion of the Broadcast MBS session update because the AMF has not received responses from all NG-RANs before the maximum response time that was indicated in the request elapses. |
| NOTE: This value may also be used if at least one successful response is received and certain conditions, not related to the timer trigger sending ContextCreateRspData or ContextUpdateRspData. | |

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