**3GPP TSG-CT WG4 Meeting #110-eC4-223508**

**E-Meeting, 12th – 20th May 2022 was C4-223362**

|  |
| --- |
| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **29.532** | **CR** | **0019** | **rev** | **2** | **Current version:** | **17.0.0** |  |
|  |
| *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:***  | Application Error for MBSSession Service |
|  |  |
| ***Source to WG:*** | ZTE, Huawei |
| ***Source to TSG:*** | CT4 |
|  |  |
| ***Work item code:*** | 5MBS |  | ***Date:*** | 2022-05-04 |
|  |  |  |  |  |
| ***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 canbe 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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
|  |  |
| ***Reason for change:*** | Errors may happen during MBS session operations (e.g. creation, modification or deletion). For example:- the MBS session to be created has already been created in the MB-SMF, e.g. for non location dependent MBS session, the MBS session (i.e. identified by the MBS session identifier) has alreay been created in the MBS session contexts in the MB-SMF. Or, for location dependent MBS session, the MBS session (i.e. identified by the MBS session identifier and the MBS service area) has already created in the MB-SMF;- for a location dependent MBS session, the new MBS session area for an active MBS session overlaps with existing MBS session area of any MBS session with the same MBS session identifier; - the MBS session to be created cannot be created due to TMGI provided does not exist in the MB-SMF;- the MBS session to be modified is not found in the MB-SMF, e.g. the MBS session identifier is not found from the MBS session contexts in the MB-SMF;To support these error cases, corresponding application errors should be defined. |
|  |  |
| ***Summary of change:*** | Define application error for MBSSession servicce. |
|  |  |
| ***Consequences if not approved:*** | Error case may happen while no corresponding actions are defined. |
|  |  |
| ***Clauses affected:*** | 6.2.3.2.3.1, 6.2.3.2.4.2.2, 6.2.3.3.3.1, 6.2.3.4.3.1, 6.2.3.6.3.1, 6.2.7.3 |
|  |  |
|  | **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 doesn't introduces any change to the OpenAPI files. |
|  |  |
| ***This CR's revision history:*** | Rev#2:- Remove UNKNOWN\_MBS\_SERVICE\_AREA application error from MBS session creation procedure;- Correct the description for OVERLAPPING\_MBS\_SERVICE\_AREA, i.e. remove “active” from “active MBS session”;- Editorial corrections.Rev#1:- Merge C4-223131;- Rename the application errors, and update the description of each application error. |

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

6.2.3.2.3.1 POST

This method creates an individual MBS session resource in the MB-SMF.

This method shall support the URI query parameters specified in table 6.2.3.2.3.1-1.

Table 6.2.3.2.3.1-1: URI query parameters supported by the POST method on this resource

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description | Applicability |
| n/a |  |  |  |  |  |

This method shall support the request data structures specified in table 6.2.3.2.3.1-2 and the response data structures and response codes specified in table 6.2.3.2.3.1-3.

Table 6.2.3.2.3.1-2: Data structures supported by the POST Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| CreateReqData | M | 1 | Representation of the MBS session to be created in the MB-SMF |

Table 6.2.3.2.3.1-3: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Responsecodes | Description |
| CreateRspData | M | 1 | 201 Created | Successful creation of an MBS session |
| RedirectResponse | O | 0..1 | 307 Temporary Redirect | Temporary redirection. The response shall include a Location header field containing a different URI, or the same URI if a request is redirected to the same target resource via a different SCP. In the former case, the URI shall be an alternative URI of the resource located on an alternative service instance within the same MB-SMF or MB-SMF (service) set.(NOTE 2)  |
| RedirectResponse | O | 0..1 | 308 Permanent Redirect | Permanent redirection. The response shall include a Location header field containing a different URI, or the same URI if a request is redirected to the same target resource via a different SCP. In the former case, the URI shall be an alternative URI of the resource located on an alternative service instance within the same MB-SMF or MB-SMF (service) set.(NOTE 2) |
| ProblemDetails | O | 0..1 | 403 Forbidden | When used to represent an unsuccessful MBS session creation, the "cause" attribute of the "ProblemDetails" may be used to include one of the following application error codes:- MBS\_SESSION\_ALREADY\_CREATED, if MBS session to be created has already been created in the MB-SMF.- OVERLAPPING\_MBS\_SERVICE\_AREA, if the new MBS service area overlaps with the service area of any MBS session with the same MBS session identifier. |
| ProblemDetails | O | 0..1 | 404 Not Found | When used to represent an unsuccessful MBS session creation, the "cause" attribute of the "ProblemDetails" may be used to include one of the following application error codes:- UNKNOWN\_TMGI, if the TMGI indicated in the mbsSessionId IE is not found in the MB-SMF. |
| NOTE 1: The mandatory HTTP error status code for the POST method listed in Table 5.2.7.1-1 of 3GPP TS 29.500 [4] also apply.NOTE 2: RedirectResponse may be inserted by an SCP, see clause 6.10.9.1 of 3GPP TS 29.500 [4]. |

Table 6.2.3.2.3.1-4: Headers supported by the POST method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
|  |  |  |  |  |

Table 6.2.3.2.3.1-5: Headers supported by the 201 response code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
|  |  |  |  |  |
| Location | string | M | 1 | Contains the URI of the newly created resource, according to the structure: {apiRoot}/nmbsmf-mbssession/<apiVersion>/mbs-sessions/{mbsSessionRef} |

Table 6.2.3.2.3.1-6: Headers supported by the 307 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located on an alternative service instance within the same MB-SMF or MB-SMF (service) set.Or the same URI, if a request is redirected to the same target resource via a different SCP. |
| 3gpp-Sbi-Target-Nf-Id | string | O | 0..1 | Identifier of the target MB-SMF (service) instance ID towards which the request is redirected |

Table 6.2.3.2.3.1-7: Headers supported by the 308 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located on an alternative service instance within the same MB-SMF or MB-SMF (service) set.Or the same URI, if a request is redirected to the same target resource via a different SCP. |
| 3gpp-Sbi-Target-Nf-Id | string | O | 0..1 | Identifier of the target MB-SMF (service) instance ID towards which the request is redirected |

\* \* \* Next Change \* \* \* \*

6.2.3.2.4.2.2 Operation Definition

This operation shall support the request data structures specified in table 6.2.3.2.4.2.2-1 and the response data structure and response codes specified in table 6.2.3.2.4.2.2-2.

Table 6.2.3.2.4.2.2-1: Data structures supported by the POST Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| ContextUpdateReqData | M | 1 | Data within the ContextUpdate Request  |

Table 6.2.3.2.4.2.2-2: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Responsecodes | Description |
| ContextUpdateRspData | M | 1 | 200 OK | Data in the ContextUpdate Response |
| n/a |  |  | 204 No Content |  |
| RedirectResponse | O | 0..1 | 307 Temporary Redirect | Temporary redirection. The response shall include a Location header field containing a different URI, or the same URI if a request is redirected to the same target resource via a different SCP. In the former case, the URI shall be an alternative URI of the resource located on an alternative service instance within the same MB-SMF or MB-SMF (service) set.(NOTE 2) |
| RedirectResponse | O | 0..1 | 308 Permanent Redirect | Permanent redirection. The response shall include a Location header field containing a different URI, or the same URI if a request is redirected to the same target resource via a different SCP. In the former case, the URI shall be an alternative URI of the resource located on an alternative service instance within the same MB-SMF or MB-SMF (service) set.(NOTE 2) |
| ProblemDetails | O | 0..1 | 404 Not Found | When used to represent an unsuccessful MBS session context update, the "cause" attribute of the "ProblemDetails" may be used to include one of the following application error codes:- UNKNOWN\_TMGI, if the TMGI provided in the request does not exist in the MB-SMF.- UNKNOWN\_MBS\_SESSION, if the indicated MBS session is not found in the MB-SMF.- UNKNOWN\_MBS\_SERVICE\_AREA, if the MBS service area in the request cannot be found. |
| NOTE 1: The mandatory HTTP error status code for the POST method listed in Table 5.2.7.1-1 of 3GPP TS 29.500 [4] also apply.NOTE 2: RedirectResponse may be inserted by an SCP, see clause 6.10.9.1 of 3GPP TS 29.500 [4]. |

Table 6.2.3.2.4.2.2-3: Headers supported by the 307 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located on an alternative service instance within the same MB-SMF or MB-SMF (service) set.Or the same URI, if a request is redirected to the same target resource via a different SCP. |
| 3gpp-Sbi-Target-Nf-Id | string | O | 0..1 | Identifier of the target MB-SMF (service) instance ID towards which the request is redirected |

Table 6.2.3.2.4.2.2-4: Headers supported by the 308 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located on an alternative service instance within the same MB-SMF or MB-SMF (service) set.Or the same URI, if a request is redirected to the same target resource via a different SCP. |
| 3gpp-Sbi-Target-Nf-Id | string | O | 0..1 | Identifier of the target MB-SMF (service) instance ID towards which the request is redirected |

\* \* \* Next Change \* \* \* \*

6.2.3.3.3.1 PATCH

This method updates an individual MBS session resource in the MB-SMF.

This method shall support the URI query parameters specified in table 6.2.3.2.3.1-1.

Table 6.2.3.3.3.1-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description | Applicability |
| n/a |  |  |  |  |  |

This method shall support the request data structures specified in table 6.2.3.3.3.1-2 and the response data structures and response codes specified in table 6.2.3.3.3.1-3.

Table 6.2.3.3.3.1-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| array(PatchItem) | M | 1 | List of changes to be made to the MBS session resource, according to the JSON PATCH format specified in IETF RFC 6902 [16]. |

Table 6.2.3.3.3.1-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Responsecodes | Description |
| n/a |  |  | 204 No Content | Successful response |
| RedirectResponse | O | 0..1 | 307 Temporary Redirect | Temporary redirection. The response shall include a Location header field containing a different URI, or the same URI if a request is redirected to the same target resource via a different SCP. In the former case, the URI shall be an alternative URI of the resource located on an alternative service instance within the same MB-SMF or MB-SMF (service) set.(NOTE 2)  |
| RedirectResponse | O | 0..1 | 308 Permanent Redirect | Permanent redirection. The response shall include a Location header field containing a different URI, or the same URI if a request is redirected to the same target resource via a different SCP. In the former case, the URI shall be an alternative URI of the resource located on an alternative service instance within the same MB-SMF or MB-SMF (service) set.(NOTE 2) |
| ProblemDetails | O | 0..1 | 404 Not Found | When used to represent an unsuccessful MBS session update, the "cause" attribute of the "ProblemDetails" may be used to include one of the following application error codes:- UNKNOWN\_MBS\_SESSION, if the indicated MBS session is not found in the MB-SMF. |
| NOTE 1: The mandadatory HTTP error status code for the POST method listed in Table 5.2.7.1-1 of 3GPP TS 29.500 [4] also apply.NOTE 2: RedirectResponse may be inserted by an SCP, see clause 6.10.9.1 of 3GPP TS 29.500 [4]. |

Table 6.2.3.3.3.1-4: Headers supported by the 307 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located on an alternative service instance within the same MB-SMF or MB-SMF (service) set.Or the same URI, if a request is redirected to the same target resource via a different SCP. |
| 3gpp-Sbi-Target-Nf-Id | string | O | 0..1 | Identifier of the target MB-SMF (service) instance ID towards which the request is redirected |

Table 6.2.3.3.3.1-5: Headers supported by the 308 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located on an alternative service instance within the same MB-SMF or MB-SMF (service) set.Or the same URI, if a request is redirected to the same target resource via a different SCP. |
| 3gpp-Sbi-Target-Nf-Id | string | O | 0..1 | Identifier of the target MB-SMF (service) instance ID towards which the request is redirected |

\* \* \* Next Change \* \* \* \*

6.2.3.4.3.1 POST

This method creates an individual subscription resource for an MBS session in the MB-SMF with StatusSubscribe service operation.

This method shall support the URI query parameters specified in table 6.2.3.4.3.1-1.

Table 6.2.3.4.3.1-1: URI query parameters supported by the POST method on this resource

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description | Applicability |
| n/a |  |  |  |  |  |

This method shall support the request data structures specified in table 6.2.3.4.3.1-2 and the response data structures and response codes specified in table 6.2.3.4.3.1-3.

Table 6.2.3.4.3.1-2: Data structures supported by the POST Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| StatusSubscribeReqData | M | 1 | Data within the StatusSubscribe Request |

Table 6.2.3.4.3.1-3: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Responsecodes | Description |
| StatusSubscribeRspData | M | 1 | 201 Created | Data within the StatusSubscribe Response |
| RedirectResponse | O | 0..1 | 307 Temporary Redirect | Temporary redirection. The response shall include a Location header field containing a different URI, or the same URI if a request is redirected to the same target resource via a different SCP. In the former case, the URI shall be an alternative URI of the resource located on an alternative service instance within the same MB-SMF or MB-SMF (service) set.(NOTE 2)  |
| RedirectResponse | O | 0..1 | 308 Permanent Redirect | Permanent redirection. The response shall include a Location header field containing a different URI, or the same URI if a request is redirected to the same target resource via a different SCP. In the former case, the URI shall be an alternative URI of the resource located on an alternative service instance within the same MB-SMF or MB-SMF (service) set.(NOTE 2) |
| ProblemDetails | O | 0..1 | 404 Not Found | When used to represent an unsuccessful subscription to MBS session, the "cause" attribute of the "ProblemDetails" may be used to include one of the following application error codes:- UNKNOWN\_MBS\_SESSION, if the indicated MBS session is not found in the MB-SMF.- UNKNOWN\_MBS\_SERVICE\_AREA, if the requested Area Session ID is not found. |
| NOTE 1: The mandatory HTTP error status code for the POST method listed in Table 5.2.7.1-1 of 3GPP TS 29.500 [4] also apply.NOTE 2: RedirectResponse may be inserted by an SCP, see clause 6.10.9.1 of 3GPP TS 29.500 [4]. |

Table 6.2.3.4.3.1-4: Headers supported by the POST method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
|  |  |  |  |  |

Table 6.2.3.4.3.1-5: Headers supported by the 201 response code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | Contains the URI of the newly created resource, according to the structure: {apiRoot}/nmbsmf-mbssession/<apiVersion>/mbs-sessions/subscriptions/{subscriptionId} |

Table 6.2.3.4.3.1-6: Headers supported by the 307 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located on an alternative service instance within the same MB-SMF or MB-SMF (service) set.Or the same URI, if a request is redirected to the same target resource via a different SCP. |
| 3gpp-Sbi-Target-Nf-Id | string | O | 0..1 | Identifier of the target MB-SMF (service) instance ID towards which the request is redirected |

Table 6.2.3.4.3.1-7: Headers supported by the 308 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located on an alternative service instance within the same MB-SMF or MB-SMF (service) set.Or the same URI, if a request is redirected to the same target resource via a different SCP. |
| 3gpp-Sbi-Target-Nf-Id | string | O | 0..1 | Identifier of the target MB-SMF (service) instance ID towards which the request is redirected |

\* \* \* Next Change \* \* \* \*

6.2.3.6.3.1 POST

This method creates an individual subscription resource for an MBS context in the MB-SMF.

This method shall support the URI query parameters specified in table 6.2.3.6.3.1-1.

Table 6.2.3.6.3.1-1: URI query parameters supported by the POST method on this resource

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description | Applicability |
| n/a |  |  |  |  |  |

This method shall support the request data structures specified in table 6.2.3.6.3.1-2 and the response data structures and response codes specified in table 6.2.3.6.3.1-3.

Table 6.2.3.6.3.1-2: Data structures supported by the POST Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| ContextStatusSubscribeReqData | M | 1 | Data within the ContextStatusSubscribe Request |

Table 6.2.3.6.3.1-3: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Responsecodes | Description |
| ContextStatusSubscribeRspData | M | 1 | 201 Created | Data within the ContextStatusSubscribe Response |
| RedirectResponse | O | 0..1 | 307 Temporary Redirect | Temporary redirection. The response shall include a Location header field containing a different URI, or the same URI if a request is redirected to the same target resource via a different SCP. In the former case, the URI shall be an alternative URI of the resource located on an alternative service instance within the same MB-SMF or MB-SMF (service) set.(NOTE 2)  |
| RedirectResponse | O | 0..1 | 308 Permanent Redirect | Permanent redirection. The response shall include a Location header field containing a different URI, or the same URI if a request is redirected to the same target resource via a different SCP. In the former case, the URI shall be an alternative URI of the resource located on an alternative service instance within the same MB-SMF or MB-SMF (service) set.(NOTE 2) |
| ProblemDetails | O | 0..1 | 404 Not Found | When used to represent an unsuccessful subscription to MBS session context, the "cause" attribute of the "ProblemDetails" may be used to include one of the following application error codes:- UNKNOWN\_MBS\_SESSION, if indicated the MBS session is not found in the MB-SMF. |
| NOTE 1: The mandatory HTTP error status code for the POST method listed in Table 5.2.7.1-1 of 3GPP TS 29.500 [4] also apply.NOTE 2: RedirectResponse may be inserted by an SCP, see clause 6.10.9.1 of 3GPP TS 29.500 [4]. |

Table 6.2.3.6.3.1-4: Headers supported by the POST method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
|  |  |  |  |  |

Table 6.2.3.6.3.1-5: Headers supported by the 201 response code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | Contains the URI of the newly created resource, according to the structure: {apiRoot}/nmbsmf-mbssession/<apiVersion>/mbs-sessions/contexts/subscriptions/{subscriptionId} |

Table 6.2.3.6.3.1-6: Headers supported by the 307 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located on an alternative service instance within the same MB-SMF or MB-SMF (service) set.Or the same URI, if a request is redirected to the same target resource via a different SCP. |
| 3gpp-Sbi-Target-Nf-Id | string | O | 0..1 | Identifier of the target MB-SMF (service) instance ID towards which the request is redirected |

Table 6.2.3.6.3.1-7: Headers supported by the 308 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located on an alternative service instance within the same MB-SMF or MB-SMF (service) set.Or the same URI, if a request is redirected to the same target resource via a different SCP. |
| 3gpp-Sbi-Target-Nf-Id | string | O | 0..1 | Identifier of the target MB-SMF (service) instance ID towards which the request is redirected |

\* \* \* Next Change \* \* \* \*

#### 6.2.7.3 Application Errors

The application errors defined for the <API name> service are listed in Table 6.2.7.3-1.

Table 6.2.7.3-1: Application errors

|  |  |  |
| --- | --- | --- |
| Application Error | HTTP status code | Description |
| MBS\_SESSION\_ALREADY\_CREATED | 403 Forbidden | This error indicates an unsuccessful of MBS session creation, if the MBS session to be created has already been created in the MB-SMF.For a location dependent MBS session, this error shall be used if the MBS session associated to the indicated MBS session identifier and MBS service area has already been created in the MB-SMF.For non location dependent MBS session, this error shall be used if the MBS session indicated by the MBS session identifier has been created in the MB-SMF. |
| OVERLAPPING\_MBS\_SERVICE\_AREA | 403 Forbidden | This error indicates an unsuccessful of MBS session creation, if the new MBS service area overlaps with the service area of any MBS session with the same MBS session identifier. |
| UNKNOWN\_TMGI | 404 Not Found | This error indicates an unsuccessful of MBS session creation, update or release, if the TMGI provided in the request does not exist in the MB-SMF. |
| UNKNOWN\_MBS\_SESSION | 404 Not Found | This error indicates an unsuccessful MBS session update or release, if the MBS session to be updated or deleted is not found in the MB-SMF. |
| UNKNOWN\_MBS\_SERVICE\_AREA | 404 Not Found | This error indicates an unsuccessful of MBS sessionupdate or release, if the requested MBS service area (e.g. identified by the Area Session ID) cannot be found. |

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