**3GPP TSG-CT3 Meeting #130C3-234xxx**

**Xiamen, China, 9th – 13th October 2023 was C3-234106**

|  |
| --- |
| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** | **1052** | **rev** | **1** | **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:***  | Complete the definition of the MBS assistance information provisioning |
|  |  |
| ***Source to WG:*** | Huawei, Nokia, Nokia Shanghai Bell, Ericsson |
| ***Source to TSG:*** | CT3 |
|  |  |
| ***Work item code:*** | 5MBS\_Ph2 |  | ***Date:*** | 2023-09-29 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***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 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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
|  |  |
| ***Reason for change:*** | The definition of the MBS Session Assistance information provisioning needs to be completed as the related stage 2 requirements are now stable enough. |
|  |  |
| ***Summary of change:*** | This CR proposes to:* Update the related service description clause to clearly indicate the applicability to the "5MBS2" feature.
* Further improve and correct the related service description clauses.
* Update the data model to complete the definition of the content of the MBS Session Assistance information.
* Update the description of the feature to align with description scheme agreed as part of the discussion paper in C3-233165.
* Update the corresponding OpenAPI description accordingly.
 |
|  |  |
| ***Consequences if not approved:*** | * The stage 3 definition of the MBS Session Assistance information provisioning remains incomplete and incorrect/faulty.
 |
|  |  |
| ***Clauses affected:*** | 4.4.29.4.1, 4.4.29.4.3, 5.20.5.1, 5.20.5.2.8, 5.29.5.2.9, 5.20.6, A.18 |
|  |  |
|  | **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 introduces backwards compatibles new feature and corrections to the OpenAPI description of the MBSSession API defined in this specification. |
|  |  |
| ***This CR's revision history:*** |  |

\* \* \* \* Start of changes \* \* \* \*

##### 4.4.29.4.1 General

The procedures described in the clauses below are used by an AF to perform MBS parameters provisioning, in order to carry out one or more of the following procedures:.

- Multicast MBS Session Authorization information provisioning as defined in clause 7.2.9 of 3GPP TS 23.247 [53].

- Multicast MBS Session Assistance Information provisioning as defined in clause 7.2.9a of 3GPP TS 23.247[53].

\* \* \* \* Next changes \* \* \* \*

##### 4.4.29.4.3 Procedure for multicast MBS Session Assistance information provisioning

When the "5MBS2" feature is supported, this procedure is used by an AF to request the creation/update/deletion of an MBS Session Assistance information provisioning for multicast MBS sessions.

In order to request the creation of an MBS Parameters Provisioning for the purpose of MBS Session Assistance information provisioning for multicast MBS sessions, an AF shall trigger the Nnef\_MBSSession API by sending an HTTP POST request to the NEF targeting the "MBS Parameters Provisionings" collection resource, with the request body including the MbsPpData data structure that shall contain:

- within the "afId" attribute, the identifier of the AF that is sending the request;

- within the "mbsSessAssistInfo" attribute, the MBS Session Assistance information to be provisioned; and

- within the "suppFeat" attribute, the features supported by the AF, which shall include the support of the "5MBS2" feature.

The NEF shall then check whether the AF is authorized to perform this operation or not, as defined in clause 7.2.9a of 3GPP TS 23.247 [53]. If the AF is authorized, the NEF shall trigger the Nudm\_ParameterProvision service API of the UDM to request the provisioning of the received MBS Session Assistance information.

Upon reception of a successful response from the UDM, as defined in 3GPP TS 29.503 [17], the NEF shall respond to the AF with an HTTP "201 Created" status code including a Location header field containing the URI of the created resource, and the response body containing the MbsPpData data structure containing a representation of the created "Individual MBS Parameters Provisioning" resource.

In order to request the update or deletion of an existing "Individual MBS Parameters Provisioning" resource for the purpose of MBS Session Assistance information provisioning for multicast MBS sessions, an AF shall trigger the Nnef\_MBSSession API by reusing the same update/deletion procedures defined in clause 4.4.29.4.2.

\* \* \* \* Next changes \* \* \* \*

#### 5.20.5.1 General

This clause specifies the application data model supported by the MBSSession API. Table 5.20.5.1-1 specifies the data types defined for the MBSSession API.

Table 5.20.5.1-1: MBSSession specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Clause defined | Description | Applicability |
| MbsPpData | 5.20.5.2.6 | Represents MBS Parameters Provisioning data. |  |
| MbsPpDataPatch | 5.20.5.2.8 | Represents the requested modification to existing MBS Parameters Provisioning data. |  |
| MbsSessAuthData | 5.20.5.2.7 | Represents the MBS Session Authorization data. |  |
| MbsSessAssistInfo | 5.20.5.2.9 | Represents the MBS Session Assistance information. | 5MBS2 |
| MbsSessionCreateReq | 5.20.5.2.2 | Represents the parameters to request MBS Session creation. |  |
| MbsSessionCreateResp | 5.20.5.2.3 | Represents the parameters to be returned in an MBS Session creation response. |  |
| MbsSessionSubsc | 5.20.5.2.4 | Represents an MBS Session Subscription. |  |
| MbsSessionStatusNotif | 5.20.5.2.5 | Represents an MBS Session Status notification. |  |

Table 5.20.5.1-2 specifies data types re-used by the MBSSession API from other specifications, including a reference to their respective specifications, and when needed, a short description of their use within the MBSSession API.

Table 5.20.5.1-2: Re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| 5MbsAuthorizationInfo | 3GPP TS 29.503 [17] | Contains the MBS Session authorization information. |  |
| DateTime | 3GPP TS 29.122 [4] | Represents a date and a time |  |
| ExternalGroupId | 3GPP TS 29.122 [4] | Represents the External Group Identifier for a user group. |  |
| Gpsi | 3GPP TS 29.571 [8] | Represents a GPSI. |  |
| MbsAssistanceInfo | 3GPP TS 29.503 [17] | Represents the MBS Session Assistance information. | 5MBS2 |
| MbsSession | 3GPP TS 29.571 [8] | Represents MBS session information. |  |
| MbsSessionId | 3GPP TS 29.571 [8] | Represents the identifier of an MBS Session. |  |
| PatchItem | 3GPP TS 29.571 [8] | Represents the requested modifications to a resource via the PATCH method. |  |
| MbsSessionEventReportList | 3GPP TS 29.571 [8] | Represents the list of MBS Session Event Report(a). |  |
| MbsSessionSubscription | 3GPP TS 29.571 [8] | Represents an MBS Session Subscription |  |
| SupportedFeatures | 3GPP TS 29.571 [8] | Represents the list of supported feature(s) and used to negotiate the applicability of the optional features. |  |
| Tmgi | 3GPP TS 29.571 [8] | Represents a TMGI. |  |
| TunnelAddress | 3GPP TS 29.571 [8] | Represents a Tunnel Address (UDP/IP). |  |
| Uri | 3GPP TS 29.122 [4] | Represents a URI. |  |

\* \* \* \* Next changes \* \* \* \*

##### 5.20.5.2.8 Type: MbsPpDataPatch

Table 5.20.5.2.8-1: Definition of type MbsPpDataPatch

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| mbsSessAuthData | MbsSessAuthData | O | 0..1 | Contains the updated MBS Session Authorization data that the AF requests to provision. |  |
| mbsSessAssistInfo | MbsSessAssistInfo | O | 0..1 | Contains the updated MBS Session Assistance information that the AF requests to provision. | 5MBS2 |
| suppFeat | SupportedFeatures | O | 0..1 | Contains the modified list of supported features among the ones defined in clause 5.20.6. |  |

\* \* \* \* Next changes \* \* \* \*

##### 5.20.5.2.9 Type: MbsSessAssistInfo

Table 5.20.5.2.9-1: Definition of type MbsSessAssistInfo

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| mbsSessAssistData | array(MbsAssistanceInfo) | M | 1..N | Contains the MBS Session Assistance information data for one or more MBS Session(s). |  |

\* \* \* \* Next changes \* \* \* \*

### 5.20.6 Used Features

The table below defines the features applicable to the MBSSession API. Those features are negotiated as described in clause 5.2.7 of 3GPP TS 29.122 [4].

Table 5.20.6-1: Supported Features

|  |  |  |
| --- | --- | --- |
| Feature number | Feature Name | Description |
| 1 | 5MBS2 | This feature indicates the support of the Rel-18 enhancements to the 5G Multicast/Broadcast services.The following functionalities are supported:- MBS Session Assistance information provisioning. |

\* \* \* \* Next changes \* \* \* \*

# A.18 MBSSession API

openapi: 3.0.0

info:

 title: 3gpp-mbs-session

 version: 1.2.0-alpha.1

 description: |

 API for MBS Session Management.

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externalDocs:

 description: >

 3GPP TS 29.522 V18.1.0; 5G System; Network Exposure Function Northbound APIs.

 url: 'https://www.3gpp.org/ftp/Specs/archive/29\_series/29.522/'

servers:

 - url: '{apiRoot}/3gpp-mbs-session/v1'

 variables:

 apiRoot:

 default: https://example.com

 description: apiRoot as defined in clause 4.4 of 3GPP TS 29.501

security:

 - {}

 - oAuth2ClientCredentials: []

paths:

 /mbs-sessions:

 post:

 summary: Request the creation of a new MBS Session.

 tags:

 - MBS Sessions collection

 operationId: CreateMBSSession

 requestBody:

 description: Representation of the new MBS session to be created at the NEF.

 required: true

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/MbsSessionCreateReq'

 responses:

 '201':

 description: >

 Created. Successful creation of a new Individual MBS session resource.

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/MbsSessionCreateRsp'

 headers:

 Location:

 description: >

 Contains the URI of the newly created resource, according to the structure

 {apiRoot}/3gpp-mbs-session/v1/mbs-sessions/{mbsSessionRef}

 required: true

 schema:

 type: string

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 /mbs-sessions/{mbsSessionRef}:

 parameters:

 - name: mbsSessionRef

 in: path

 description: Identifier of the Individual MBS Session resource.

 required: true

 schema:

 type: string

 patch:

 summary: Request the modification of an existing Individual MBS Session resource.

 operationId: ModifyIndMBSSession

 tags:

 - Individual MBS Session

 requestBody:

 required: true

 content:

 application/json-patch+json:

 schema:

 type: array

 items:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/PatchItem'

 minItems: 1

 responses:

 '204':

 description: >

 No Content. The concerned Individual MBS Session resource was successfully modified.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 delete:

 summary: Request the Deletion of an existing Individual MBS Session resource.

 operationId: DeleteIndMBSSession

 tags:

 - Individual MBS Session

 responses:

 '204':

 description: >

 No Content. Successful deletion of the concerned Individual MBS Session resource.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 /mbs-sessions/subscriptions:

 get:

 summary: Retrieve all the active MBS Sessions subscriptions.

 operationId: ReadMBSSessionsSubscs

 tags:

 - MBS Session Subscriptions

 responses:

 '200':

 description: >

 OK. All the active MBS Session Subscriptions resources managed by the NEF are returned.

 content:

 application/json:

 schema:

 type: array

 items:

 $ref: '#/components/schemas/MbsSessionSubsc'

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '406':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/406'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 post:

 summary: Request the creation of a new Individual MBS Session subscription resource.

 operationId: CreateMBSSessionsSubsc

 tags:

 - MBS Session Subscriptions

 requestBody:

 description: Request the creation of a new MBS Session subscription resource.

 required: true

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/MbsSessionSubsc'

 responses:

 '201':

 description: >

 Created. Successful creation of a new Individual MBS Session subscription.

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/MbsSessionSubsc'

 headers:

 Location:

 description: Contains the URI of the newly created resource, according to the

 structure

 {apiRoot}/3gpp-mbs-session/v1/mbs-sessions/subscriptions/{subscriptionId}

 required: true

 schema:

 type: string

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 callbacks:

 MBSSessionStatusNotification:

 '{request.body#/notificationUri}':

 post:

 requestBody:

 required: true

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/MbsSessionStatusNotif'

 responses:

 '204':

 description: No Content. Successful reception of the notification.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 /mbs-sessions/subscriptions/{subscriptionId}:

 parameters:

 - name: subscriptionId

 in: path

 description: Identifier of the Individual MBS Session Subscription resource.

 required: true

 schema:

 type: string

 get:

 summary: Retrieve an existing Individual MBS Session Subscription resource.

 operationId: ReadIndMBSSessionsSubsc

 tags:

 - Individual MBS Session subscription

 responses:

 '200':

 description: >

 OK. Successful retrieval of the targeted Individual MBS Session subscription resource.

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/MbsSessionSubsc'

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '406':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/406'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 delete:

 summary: Request the deletion of an existing Individual MBS Session subscription resource.

 operationId: DeleteIndMBSSessionsSubsc

 tags:

 - Individual MBS Session Subscription

 responses:

 '204':

 description: >

 No Content. Successful deletion of the existing Individual MBS Session subscription

 resource.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 /mbs-pp:

 get:

 summary: Request to retrieve all the active MBS Parameters Provisioning resources at the NEF.

 operationId: GetMBSParamsProvisionings

 tags:

 - MBS Parameters Provisionings

 responses:

 '200':

 description: >

 OK. All the active MBS Parameters Provisioning resources managed by the NEF are

 returned.

 content:

 application/json:

 schema:

 type: array

 items:

 $ref: '#/components/schemas/MbsPpData'

 minItems: 1

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '406':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/406'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 post:

 summary: Request the creation of a new MBS Parameters Provisioning.

 tags:

 - MBS Parameters Provisioning

 operationId: CreateMBSParamsProvisioning

 requestBody:

 description: Representation of the new MBS Parameters Provisioning to be created at the NEF.

 required: true

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/MbsPpData'

 responses:

 '201':

 description: >

 Created. Successful creation of a new Individual MBS Parameters Provisioning resource.

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/MbsPpData'

 headers:

 Location:

 description: >

 Contains the URI of the newly created resource, according to the structure

 {apiRoot}/3gpp-mbs-session/v1/mbs-pp/{mbsPpId}

 required: true

 schema:

 type: string

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 /mbs-pp/{mbsPpId}:

 parameters:

 - name: mbsPpId

 in: path

 description: >

 Represents the identifier of the Individual MBS Parameters Provisioning resource.

 required: true

 schema:

 type: string

 get:

 summary: Request to retrieve an existing Individual MBS Parameters Provisioning resource.

 operationId: GetIndMBSParamsProvisioning

 tags:

 - Individual MBS Parameters Provisioning

 responses:

 '200':

 description: >

 OK. Successful retrieval of the requested Individual MBS Parameters Provisioning.

 resource.

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/MbsPpData'

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '406':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/406'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 put:

 summary: Request the update of an existing Individual MBS Parameters Provisioning resource.

 tags:

 - Individual MBS Parameters Provisioning

 operationId: UpdateIndMBSParamsProvisioning

 requestBody:

 description: >

 Represents the updated Individual MBS Parameters Provisioning resource representation.

 required: true

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/MbsPpData'

 responses:

 '200':

 description: >

 OK. The Individual MBS Parameters Provisioning resource is successfully updated and a

 representation of the updated resource is returned in the response body.

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/MbsPpData'

 '204':

 description: >

 No Content. The Individual MBS Parameters Provisioning resource is successfully updated.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 patch:

 summary: Request the modification of an existing Individual MBS Parameters Provisioning resource.

 tags:

 - Individual MBS Parameters Provisioning

 operationId: ModifyIndMBSParamsProvisioning

 requestBody:

 description: >

 Contains the parameters to request the modification of the Individual Parameters

 Provisioning resource.

 required: true

 content:

 application/merge-patch+json:

 schema:

 $ref: '#/components/schemas/MbsPpDataPatch'

 responses:

 '200':

 description: >

 OK. The Individual MBS Parameters Provisioning resource is successfully modified and a

 representation of the updated resource is returned in the response body.

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/MbsPpData'

 '204':

 description: >

 No Content. The Individual MBS Parameters Provisioning resource is successfully

 modified.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 delete:

 summary: Request the deletion of an existing Individual MBS Parameters Provisioning resource.

 tags:

 - Individual MBS Parameters Provisioning

 operationId: DeleteIndMBSParamsProvisioning

 responses:

 '204':

 description: >

 No Content. The Individual MBS Parameters Provisioning resource is successfully

 deleted.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

components:

 securitySchemes:

 oAuth2ClientCredentials:

 type: oauth2

 flows:

 clientCredentials:

 tokenUrl: '{tokenUrl}'

 scopes: {}

 schemas:

#

# STRUCTURED DATA TYPES

#

 MbsSessionCreateReq:

 description: Represents the parameters to request MBS Session creation.

 type: object

 properties:

 afId:

 type: string

 mbsSession:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/MbsSession'

 suppFeat:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

 required:

 - afId

 - mbsSession

 MbsSessionCreateRsp:

 description: Represents the parameters to be returned in an MBS Session creation response..

 type: object

 properties:

 mbsSession:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/MbsSession'

 eventList:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/MbsSessionEventReportList'

 suppFeat:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

 required:

 - mbsSession

 MbsSessionSubsc:

 description: Represents an MBS Session Subscription.

 type: object

 properties:

 afId:

 type: string

 subscription:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/MbsSessionSubscription'

 subscriptionId:

 type: string

 required:

 - afId

 - subscription

 MbsSessionStatusNotif:

 description: Represents an MBS Session Status notification.

 type: object

 properties:

 eventList:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/MbsSessionEventReportList'

 required:

 - eventList

 MbsPpData:

 description: Represents MBS Parameters Provisioning data.

 type: object

 properties:

 afId:

 type: string

 mbsSessAuthData:

 $ref: '#/components/schemas/MbsSessAuthData'

 mbsSessAssistInfo:

 $ref: '#/components/schemas/MbsSessAssistInfo'

 suppFeat:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

 required:

 - afId

 MbsSessAuthData:

 description: Represents the MBS Session Authorization data.

 type: object

 properties:

 extGroupId:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/ExternalGroupId'

 gpsisList:

 type: object

 additionalProperties:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/Gpsi'

 minProperties: 1

 description: >

 Represents the list of the GPSI(s) of the member UE(s) constituting the multicast MBS

 group. Any

 value of type can be used as a key of the map.

 mbsSessionIdList:

 $ref: 'TS29503\_Nudm\_PP.yaml#/components/schemas/5MbsAuthorizationInfo'

 required:

 - extGroupId

 - mbsSessionIdList

 MbsPpDataPatch:

 description: >

 Represents the requested modification to existing MBS Parameters Provisioning data.

 type: object

 properties:

 mbsSessAuthData:

 $ref: '#/components/schemas/MbsSessAuthData'

 mbsSessAssistInfo:

 $ref: '#/components/schemas/MbsSessAssistInfo'

 suppFeat:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

 MbsSessAssistInfo:

 description: >

 Represents the MBS Session Assistance information.

 type: object

 properties:

 mbsSessAssistData:

 type: array

 items:

 $ref: 'TS29503\_Nudm\_PP.yaml#/components/schemas/MbsAssistanceInfo'

 minItems: 1

 required:

 - mbsSessAssistData

#

# SIMPLE DATA TYPES

#

#

# ENUMERATIONS

#

\* \* \* \* End of changes \* \* \* \*