**3GPP TSG-CT3 Meeting #123e C3-224654**

**E-Meeting, 18th – 26th August 2022** (revision of C3-224389)

**Source: Ericsson, Huawei**

**Title: Define OpenAPI file of Nmbsf\_MBSUserDataIngestSession API**

**Spec: 3GPP TS 29.580 v1.0.0**

**Agenda item: 17.31**

**Document for: Decision**

**1. Introduction**

Define the OpenAPI file of Nmbsf\_MBSUserDataIngestSession API.

**2. Reason for Change**

Define the OpenAPI file of Nmbsf\_MBSUserDataIngestSession API.

**3. Conclusions**

Define the OpenAPI file of Nmbsf\_MBSUserDataIngestSession API.

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS 29.580 v.1.0.0.

\* \* \* 1st Change \* \* \* \*

# A.3 Nmbsf\_MBSUserDataIngestSession API

openapi: 3.0.0

info:

 title: nmbsf-mbs-ud-ingest

 version: 1.0.0-alpha.1

 description: |

 API for MBS User Data Ingest Session Service.

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externalDocs:

 description: >

 3GPP TS 29.580 V1.0.0; 5G System; Multicast/Broadcast Service Function Services.

 url: 'https://www.3gpp.org/ftp/Specs/archive/29\_series/29.580/'

servers:

 - url: '{apiRoot}/nmbsf-mbs-ud-ingest/v1'

 variables:

 apiRoot:

 default: https://example.com

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

security:

 - {}

 - oAuth2ClientCredentials:

 - nmbsf-mbs-ud-ingest

paths:

 /sessions:

 get:

 summary: Retrieve all the active MBS User Data Ingest Sessions managed by the MBSF.

 tags:

 - MBS User Data Ingest Sessions (Collection)

 operationId: RetrieveMBSUserDataIngSessions

 responses:

 '200':

 description: >

 OK. All the active MBS User Data Ingest Sessions managed by the MBSF are returned.

 content:

 application/json:

 schema:

 type: array

 items:

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

 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 User Data Ingest Session.

 tags:

 - MBS User Data Ingest Sessions (Collection)

 operationId: CreateMBSUserDataIngSession

 requestBody:

 description: >

 Contains the parameters to request the creation of a new MBS User Data Ingest Session

 at the MBSF.

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '201':

 description: >

 Created. A new MBS User Data Ingest Session is successfully created and a representation

 of the created Individual MBS User Data Ingest Session resource is returned.

 content:

 application/json:

 schema:

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

 headers:

 Location:

 description: >

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

 {apiRoot}/nmbs-mbs-ud-ingest/v1/sessions/{sessionId}

 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'

 /sessions/{sessionId}:

 parameters:

 - name: sessionId

 in: path

 description: Identifier of the Individual MBS User Data Ingest Session resource.

 required: true

 schema:

 type: string

 get:

 summary: Retrieve an existing Individual MBS User Data Ingest Session resource.

 tags:

 - Individual MBS User Data Ingest Session (Document)

 operationId: RetrieveIndMBSUserDataIngSession

 responses:

 '200':

 description: >

 OK. The requested Individual MBS User Data Ingest Session resource is successfully

 returned.

 content:

 application/json:

 schema:

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

 '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 User Data Ingest Session resource.

 tags:

 - Individual MBS User Data Ingest Session (Document)

 operationId: UpdateIndMBSUserDataIngSession

 requestBody:

 description: >

 Contains the updated representation of the Individual MBS User Data Ingest Session

 resource.

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '200':

 description: >

 OK. The concerned Individual MBS User Data Ingest Session resource is successfully

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

 content:

 application/json:

 schema:

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

 '204':

 description: >

 No Content. The concerned Individual MBS User Data Ingest Session resource is

 successfully updated and no content is returned in the response body.

 '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 User Data Ingest Session resource.

 tags:

 - Individual MBS User Data Ingest Session (Document)

 operationId: ModifyIndMBSUserDataIngSession

 requestBody:

 description: >

 Contains the parameters to request the modification of the Individual MBS User Data Ingest

 Session resource.

 required: true

 content:

 application/merge-patch+json:

 schema:

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

 responses:

 '200':

 description: >

 OK. The concerned Individual MBS User Data Ingest Session resource is successfully

 modified and a representation of the updated resource is returned in the response body.

 content:

 application/json:

 schema:

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

 '204':

 description: >

 No Content. The concerned Individual MBS User Data Ingest Session resource is

 successfully modified and no content is returned in the response body.

 '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 User Data Ingest Session resource.

 tags:

 - Individual MBS User Data Ingest Session (Document)

 operationId: DeleteIndMBSUserDataIngSession

 responses:

 '204':

 description: >

 No Content. The Individual MBS User Data Ingest Session 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'

 /status-subscriptions:

 get:

 summary: Retrieve all the active MBS User Data Ingest Session Status Subscription resources managed by the MBSF.

 tags:

 - MBS User Data Ingest Session Status Subscriptions (Collection)

 operationId: RetrieveMBSUserDataIngStatSubscs

 responses:

 '200':

 description: >

 OK. All the active MBS User Data Ingest Session Status Subscriptions managed by the MBSF

 are returned.

 content:

 application/json:

 schema:

 type: array

 items:

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

 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 User Data Ingest Session Status Subscription.

 tags:

 - MBS User Data Ingest Session Status Subscriptions (Collection)

 operationId: CreateMBSUserDataIngStatSubsc

 requestBody:

 description: >

 Contains the parameters to request the creation of a new MBS User Data Ingest Session

 Status Subscription.

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '201':

 description: >

 Created. Successful creation of a new Individual MBS User Data Ingest Session

 Status Subscription resource.

 content:

 application/json:

 schema:

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

 headers:

 Location:

 description: >

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

 {apiRoot}/nmbs-mbs-ud-ingest/v1/status-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:

 mbsUserDataIngestSessionStatusNotif:

 '{request.body#/notifUri}':

 post:

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 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'

 /status-subscriptions/{subscriptionId}:

 parameters:

 - name: subscriptionId

 in: path

 description: >

 Identifier of the Individual MBS User Data Ingest Session Status Subscription resource.

 required: true

 schema:

 type: string

 get:

 summary: Retrieve an existing Individual MBS User Data Ingest Session Status Subscription resource.

 tags:

 - Individual MBS User Data Ingest Session Status Subscription (Document)

 operationId: RetrieveIndMBSUserDataIngStatSubsc

 responses:

 '200':

 description: >

 OK. Successful retrieval of the requested Individual MBS User Data Ingest Session

 Status Subscription resource.

 content:

 application/json:

 schema:

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

 '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 User Data Ingest Session Status Subscription resource.

 tags:

 - Individual MBS User Data Ingest Session Status Subscription (Document)

 operationId: UpdateIndMBSUserDataIngStatSubsc

 requestBody:

 description: >

 Contains the updated representation of the Individual MBS User Data Ingest Session Status

 Subscription resource.

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '200':

 description: >

 OK. The concerned Individual MBS User Data Ingest Session Status Subscription resource

 is successfully updated and a representation of the updated resource is returned in the

 response body.

 content:

 application/json:

 schema:

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

 '204':

 description: >

 No Content. The concerned Individual MBS User Data Ingest Session Status Subscription

 resource is successfully updated and no content is returned in the response body.

 '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 User Data Ingest Session Status Subscription resource.

 tags:

 - Individual MBS User Data Ingest Session Status Subscription (Document)

 operationId: ModifyIndMBSUserDataIngStatSubsc

 requestBody:

 description: >

 Contains the parameters to request the modification of the Individual MBS User Data Ingest

 Session Status Subscription resource.

 required: true

 content:

 application/merge-patch+json:

 schema:

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

 responses:

 '200':

 description: >

 OK. The concerned Individual MBS User Data Ingest Session Status Subscription resource

 is successfully modified and a representation of the updated resource is returned in the

 response body.

 content:

 application/json:

 schema:

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

 '204':

 description: >

 No Content. The concerned Individual MBS User Data Ingest Session Status Subscription

 resource is successfully modified and no content is returned in the response body.

 '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 User Data Ingest Session Status Subscription resource.

 tags:

 - Individual MBS User Data Ingest Session Status Subscription (Document)

 operationId: DeleteMBSUserDataIngStatSubsc

 responses:

 '204':

 description: >

 No Content. Successful deletion of the existing Individual MBS User Data Ingest Session

 Status 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'

components:

 securitySchemes:

 oAuth2ClientCredentials:

 type: oauth2

 flows:

 clientCredentials:

 tokenUrl: '{nrfApiRoot}/oauth2/token'

 scopes: nmbsf-mbs-ud-ingest: Access to the Nmbsf\_MBSUserDataIngestSession API

#

# STRUCTURED DATA TYPES

#

 MBSUserDataIngSession:

 description: Represents MBS User Data Ingest Session information.

 type: object

 properties:

 mbsUserServId:

 type: string

 mbsDisSessInfos:

 type: object

 additionalProperties:

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

 minProperties: 1

 description: >

 Represents one or more MBS Distribution Session(s) composing the MBS User Data Ingest

 Session. The key of the map shall be set to the value ofthe "mbsDistSessionId" attribute

 of the MBSDistributionSessionInfo data structure encoding the corresponding map entry.

 actPeriods

 type: array

 items:

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

 minItems: 1

 mbsUserServAnmt:

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

 suppFeat:

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

 required:

 - mbsUserServId

 - mbsDisSessInfos

 MBSDistributionSessionInfo:

 description: Represents MBS Distribution Session information.

 type: object

 properties:

 mbsDistSessionId:

 type: string

 mbsSessionId:

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

 mbsServId:

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

 maxContBitRate:

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

 maxContDelay:

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

 distrMethod:

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

 fecConfig:

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

 objDistrInfo:

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

 pckDistrInfo:

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

 trafficMarkingInfo:

 type: string

 mbsDistSessState:

 $ref: 'TS29581\_Nmbstf\_MBSDistributionSession.yaml#/components/schemas/DistSessionState'

 tgtServAreas:

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

 extTgtServAreas:

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

 mbsFSAId:

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

 locationDependent:

 type: boolean

 description: >

 Represents an indication that this MBS Distribution Session belongs to a location-

 dependent MBS. This attribute shall be:- set to "true" to indicate that the MBS

 Distribution Session belongs to a location-dependent MBS; or - set to "false" to

 indicate that the MBS Distribution Session does not belong to a location-dependent MBS.

 The default value is "false", if omitted.

 default: false

 multiplexedServFlag

 type: boolean

 description: >

 Represents an indication that this MBS Distribution Session belongs to a multiplex, i.e.

 forms part of a set of MBS Distribution Sessions under the same parent MBS User Data

 Ingest Session with identical or empty sets of target service areas and multiplexed onto

 the same MBS Session at the MB-SMF.

 default: false

 restrictedFlag

 type: boolean

 description: >

 Represents an indication that this MBS Distribution Session is not open to any UE, i.e.

 restricted to a set of UEs according to their MBS related subscription information.

This attribute may be included only if the parent MBS User Service is of Multicast service type.

 This attribute shall be: - Sset to "true" to indicate that this MBS Distribution

 Session is restricted to a set of UE(s); or

 - set to "false" to indicate that this MBS Distribution Session is open to any UE.

 The default value is "false", if omitted..

 default: false

 required:

 - distrMethod

 - maxContBitRate

 MBSUserDataIngSessionPatch:

 description: >

 Represents the requested modifications to an MBS User Data Ingest Session Status

 Subscription.

 type: object

 properties:

 mbsDisSessInfos:

 type: object

 additionalProperties:

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

 minProperties: 1

 description: >

 Contains the requested modifications to one or more MBS Distribution Session(s)

 composing the MBS User Data Ingest Session.

 actPeriods

 type: array

 items:

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

 minItems: 1

 ObjectDistrMethInfo:

 description: >

 Represents additional MBS Distribution Session parameters for the case of an Object

 Distribution Method.

 type: object

 properties:

 operatingMode:

 $ref: 'TS29581\_Nmbstf\_MBSDistributionSession.yaml#/components/schemas/ObjDistributionOperationMode'

 objAcqMethod:

 $ref: 'TS29581\_Nmbstf\_MBSDistributionSession.yaml#/components/schemas/ObjAcquisitionMethod'

 objAcqIds

 type: array

 items:

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

 minItems: 1

 objIngUri:

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

 objDistrUri:

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

 objRepairUri:

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

 required:

 - operationMode

 - ObjAcqMethod

 - objAcqIds

 PacketDistrMethInfo:

 description: >

 Represents additional MBS Distribution Session parameters for the case of Packet

 Distribution Method.

 type: object

 properties:

 operatingMode:

 $ref: 'TS29581\_Nmbstf\_MBSDistributionSession.yaml#/components/schemas/PktDistributionOperationMode'

 pckIngMethod:

 $ref: 'TS29581\_Nmbstf\_MBSDistributionSession.yaml#/components/schemas/PktIngestMethod'

 ingEndpointAddrs:

 $ref: 'TS29581\_Nmbstf\_MBSDistributionSession.yaml#/components/schemas/MbsStfIngestAdd'

 required:

 - operationMode

 - pktIngMethod

 - ingEndpointAddrs

 MBSUserDataIngStatSubsc:

 description: >

 Represents an MBS User Data Ingest Session Status Subscription.

 type: object

 properties:

 mbsIngSessionId:

 type: string

 eventSubscs

 type: array

 items:

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

 minItems: 1

 notifUri:

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

 required:

 - mbsIngSessionId

 - eventSubscs

 - notifUri

 MBSUserDataIngStatSubscPatch:

 description: >

 Represents the requested modifications to an MBS User Data Ingest Session Status

 Subscription.

 type: object

 properties:

 eventSubscs

 type: array

 items:

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

 minItems: 1

 notifUri:

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

 SubscribedEvent:

 description: >

 Represents a subscribed MBS User Data Ingest Session Status event and the related

 information..

 type: object

 properties:

 statusEvent:

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

 mbsDistSessionId:

 type: string

 required:

 - statusEvent

 MBSUserDataIngStatNotif:

 description: >

 Represents an MBS User Data Ingest Session Status Notification.

 type: object

 properties:

 mbsIngSessionId:

 type: string

 eventNotifs

 type: array

 items:

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

 minItems: 1

 required:

 - mbsIngSessionId

 - eventNotifs

 EventNotification:

 description: Represents Event Notification.

 type: object

 properties:

 statusEvent:

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

 mbsDisSessionId:

 type: string

 statusAddInfo:

 type: string

 timeStamp:

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

 required:

 - statusEvent

 - timeStamp

 MBSUserServAnmt:

 description: >

 Represents the MBS User Service Announcement currently associated with the MBS User Data

 Ingest Session.

 type: object

 properties:

 exServiceId:

 type: array

 items:

 type: string

 minItems: 1

 servClass:

 type: string

 startTime:

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

 endTime:

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

 servNameDescs

 type: array

 items:

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

 minItems: 1

 mainServLang

 type: string

 mbsDistSessAnmt:

 additionalProperties:

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

 minProperties: 1

 description: >

 Represents the set of MBS Distribution Session Announcements currently associated with

 this MBS User Service Announcement.

 required:

 - exServiceId

 - servClass

 MBSDistSessionAnmt:

 description: >

 Represents the set of MBS Distribution Session Announcements currently associated with this

 MBS User Service Announcement.

 type: object

 properties:

 mbsSession:

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

 mbsFSAId:

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

 distrMethod:

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

 objDistrAnnInfo:

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

 sesDesInfo

 type: array

 items:

 type: string

 minItems: 1

 required:

 - distrMethod

 - sesDesInfo

 ObjectDistMethAnmtInfo:

 description: >

 Represents MBS Distribution Session Announcement parameters for Object Distribution Method.

 type: object

 properties:

 objDistrSched:

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

 objDistrBaseUri:

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

 objRepBaseUri:

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

 FECConfig:

 description: Represents FEC configuration information.

 type: object

 properties:

 fecScheme:

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

 fecOverHead:

 type: integer

 additionalParams

 type: array

 items:

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

 minItems: 1

 required:

 - fecScheme

 - fecOverHead

 AddFecParams:

 description: Represents additional scheme-specific parameters for AL-FEC configuration.

 type: object

 properties:

 paramName:

 type: string

 paramValue:

 type: string

 required:

 - paramName

 - paramValue

# SIMPLE DATA TYPES

#

#

# ENUMERATIONS

#

 DistributionMethod:

 oneOf:

 - type: string

 enum:

 - OBJECT

 - PACKET

 - type: string

 description: >

 Represents the MBS User Data Distribution Mode.

 description: |

 Possible values are:

 - OBJECT: Indicates the Object Distribution Method.

 - PACKET: Indicates the Packet Distribution Method.

 Event:

 oneOf:

 - type: string

 enum:

 - USER\_DATA\_ING\_SESS\_STARTING

 - USER\_DATA\_ING\_SESS\_STARTED

 - USER\_DATA\_ING\_SESS\_TERMINATED

 - DIST\_SESS\_STARTING

 - DIST\_SESS\_STARTED

 - DIST\_SESS\_TERMINATED

 - DIST\_SESS\_SERV\_MNGT\_FAILURE

 - DIST\_SESS\_POL\_CRTL\_FAILURE

 - DATA\_INGEST\_FAILURE

 - type: string

 description: >

 Represents MBS User Data Ingest Session status change event.

 description: |

 Possible values are:

 - USER\_DATA\_ING\_SESS\_STARTING: >

 Indicates that the MBS User Data Ingest Session is starting. This is an "MBS User Data

 Ingest Session" level event.

 - USER\_DATA\_ING\_SESS\_STARTED: >

 Indicates that the MBS User Data Ingest Session started. This is an "MBS User Data

 Ingest Session" level event.

 - USER\_DATA\_ING\_SESS\_TERMINATED: >

 Indicates that the MBS User Data Ingest Session is terminated. This is an "MBS User Data

 Ingest Session" level event.

 - DIST\_SESS\_STARTING: >

 Indicates that the MBS Distribution Session is starting. This is an "MBS Distribution

 Session" level event.

 - DIST\_SESS\_STARTED: >

 Indicates that the MBS Distribution Session started. This is an "MBS Distribution

 Session" level event.

 - DIST\_SESS\_TERMINATED: >

 Indicates that the MBS Distribution Session is terminated. This is an "MBS Distribution

 Session" level event.

 - DIST\_SESS\_SERV\_MNGT\_FAILURE: >

 Indicates that the MBS Distribution Session could not be started (e.g. the necessary

 resources could not be allocated by the MBS system). This is an "MBS Distribution

 Session" level event.

 - DIST\_SESS\_POL\_CRTL\_FAILURE: >

 Indicates that the MBS Distribution Session could not be started because of a policy

 authorization/control failure or rejection. This is an "MBS Distribution Session"

 level event.

 - DATA\_INGEST\_FAILURE: >

 The MBS User Data Ingest is failed because the MBSTF is expecting data (the MBS Session

 is active), but not receiving it. This is an "MBS Distribution Session" level event.

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