**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 \*\*\*