**3GPP TSG- Meeting #7e *1120***

**e-meeting, 3 – 3**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **580** | **CR** | **0022** | **rev** |  | **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:*** | Support of Associated Session Id | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | , Huawei | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5MBS\_Ph2 | | | | |  | ***Date:*** | | | 07 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | 8 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) 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:*** | | As per SA2 agreed CR S2-2303402, cl 7.1.1.2 (step8) is updated to include Associated Session Identifier from AF to NEF/MBSF to enable NG-RAN to identify the broadcast MBS sessions from multiple CNs delivering the same content. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | cl 6.2.6.1, 6.2.6.2.3, 6.2.8 (new), A.3 is updated to include the new attribute "associatedSessionId" | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Non compliant with stage-2 requirements. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6.2.6.1, 6.2.6.2.3, 6.2.8, A.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | | This introduces backward compatible feature to the Open API – Nmbsf\_MBSUserDataIngestSession API | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\* \* \* \* First change \* \* \* \*

#### 6.2.6.1 General

This clause specifies the application data model supported by the Nmbsf\_MBSUserDataIngestSession API.

Table 6.2.6.1-1 specifies the data types defined for the Nmbsf\_MBSUserDataIngestSession service based interface protocol.

Table 6.2.6.1-1: Nmbsf\_MBSUserDataIngestSession specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Clause defined | Description | Applicability |
| AddFecParams | 6.2.6.2.15 | Represents additional scheme-specific parameters for AL-FEC configuration. |  |
| DistributionMethod | 6.2.6.3.3 | Represents the MBS Distribution method. |  |
| Event | 6.2.6.3.4 | Represents MBS User Data Ingest Session Status events. |  |
| EventNotification | 6.2.6.2.10 | Represents an MBS User Data Ingest Session Status event notification related information. |  |
| FECConfig | 6.2.6.2.14 | Represents FEC configuration information. |  |
| MBSDistSessionAnmt | 6.2.6.2.12 | Represents the set of MBS Distribution Session Announcement information associated with an MBS User Service Announcement. |  |
| MBSDistributionSessionInfo | 6.2.6.2.3 | Represents an MBS Distribution Session. |  |
| MBSUserDataIngSession | 6.2.6.2.2 | Represents an MBS User Data Ingest Session. |  |
| MBSUserDataIngSessionPatch | 6.2.6.2.4 | Represents the requested modifications to an MBS User Data Ingest Session. |  |
| MBSUserDataIngStatNotif | 6.2.6.2.9 | Represents an MBS User Data Ingest Session Status Notification. |  |
| MBSUserDataIngStatSubsc | 6.2.6.2.7 | Represents an MBS User Data Ingest Session Status Subscription. |  |
| MBSUserDataIngStatSubscPatch | 6.2.6.2.16 | Represents the requested modifications to an MBS User Data Ingest Session Status Subscription. |  |
| MBSUserServAnmt | 6.2.6.2.11 | Represents the MBS User Service Announcement associated with the MBS User Data Ingest Session. |  |
| ObjectDistMethAnmtInfo | 6.2.6.2.13 | Represents MBS Distribution Session Announcement information for the Object Distribution Method. |  |
| ObjectDistrMethInfo | 6.2.6.2.5 | Represents additional MBS Distribution Session parameters for the case where the Object Distribution Method is used. |  |
| PacketDistrMethInfo | 6.2.6.2.6 | Represents additional MBS Distribution Session parameters for the case where the Packet Distribution Method is used. |  |
| SubscribedEvent | 6.2.6.2.8 | Represents a subscribed MBS User Data Ingest Session Status event and the related information. |  |

Table 6.2.6.1-2 specifies data types re-used by the Nmbsf\_MBSUserDataIngestSession service based interface protocol from other specifications, including a reference to their respective specifications, and when needed, a short description of their use within the Nmbsf\_MBSUserDataIngestSession service based interface.

Table 6.2.6.1-2: Nmbsf\_MBSUserDataIngestSession re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| AssociatedSessionId | 3GPP TS 29.571 [17] | Represents an identifier to associate broadcast MBS sessions from different core networks in network sharing deployments. | 5MBS2 |
| BitRate | 3GPP TS 29.571 [17] | Represents a Bit Rate. |  |
| DateTime | 3GPP TS 29.122 [18] | Represents an absolute date time with the format "date-time", as defined in OpenAPI Specification [6]. |  |
| DistSessionState | 3GPP TS 29.581 [19] | Represents the state of an MBS Distribution Session. |  |
| ExternalMbsServiceArea | 3GPP TS 29.571 [17] | Represents an external MBS Service Area. |  |
| MbsFsaId | 3GPP TS 29.571 [17] | Represents an MBS Frequency Selection Area ID, for a broadcast MBS session. |  |
| MbsServiceArea | 3GPP TS 29.571 [17] | Represents an MBS service area. |  |
| MbsServiceInfo | 3GPP TS 29.571 [17] | Represents MBS Service Information. |  |
| MbsSessionId | 3GPP TS 29.571 [17] | Represents an MBS Session Identifier. |  |
| MbStfIngestAddr | 3GPP TS 29.581 [19] | Represents MBSTF ingest endpoint addresses. |  |
| ObjAcquisitionMethod | 3GPP TS 29.581 [19] | Represents the Object Acquisition Method. |  |
| ObjDistributionOperatingMode | 3GPP TS 29.581 [19] | Represents the operation mode for an Object distribution method. |  |
| PacketDelBudget | 3GPP TS 29.571 [17] | Represents a Packet Delay Budget expressed in milliseconds. |  |
| PktDistributionOperatingMode | 3GPP TS 29.581 [19] | Represents the operation mode for a Packet distribution method. |  |
| PktIngestMethod | 3GPP TS 29.581 [19] | Represents packets ingest method. |  |
| ServiceNameDescription | Clause 6.1.6.2.3 | Represents a set of per language service Name and/or service description. |  |
| SupportedFeatures | 3GPP TS 29.571 [17] | Used to negotiate the applicability of optional features. |  |
| TimeWindow | 3GPP TS 29.122 [18] | Represents a time window. |  |
| Uri | 3GPP TS 29.571 [17] | Represents a Uniform Resource Identifier. |  |

Editor's note: definition of AssociatedSessionId in SA4 specifications is pending.

\* \* \* \* Next change \* \* \* \*

##### 6.2.6.2.3 Type: MBSDistributionSessionInfo

Table 6.2.6.2.3-1: Definition of type MBSDistributionSessionInfo

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| mbsDistSessionId | string | C | 0..1 | Represents the identifier of the MBS Distribution Session.  This attribute shall only be present in the response to an MBS User Data Ingest Session creation request or a subsequent MBS User Data Ingest Session update/modification request. |  |
| mbsDistSessState | DistSessionState | C | 0..1 | Represents the state of the MBS Distribution Session.  This attribute shall only be present in the HTTP POST/PUT/PATCH response to the corresponding MBS User Data Ingest session creation or update/modification request. |  |
| mbsSessionId | MbsSessionId | O | 0..1 | Represents the identifier of the MBS Session to which the MBS Distribution Session is related.  It is set to either the Temporary Mobile Group Identity (TMGI) allocated for the MBS Session corresponding to this MBS Distribution Session, the Source-Specific Multicast (SSM) IP address of the MBS Session corresponding to this MBS Distribution Session or both.  (NOTE 1, NOTE 2) |  |
| associatedSessionId | AssociatedSessionId | O | 0..1 | Represents the identifier that associates broadcast MBS distribution Sessions from different core networks in network sharing deployments.  The value of this attribute shall be identical for all the broadcast MBS sessions from different core networks having the same content. | 5MBS2 |
| mbsServInfo | MbsServiceInfo | O | 0..1 | Contains the MBS Service Information for the MBS session. |  |
| maxContBitRate | BitRate | M | 1 | Represents the maximum bit rate for content distribution in this MBS Distribution Session. |  |
| maxContDelay | PacketDelBudget | O | 0..1 | Represents the maximum end-to-end distribution delay that is tolerated for content distribution in this MBS Distribution Session. |  |
| distrMethod | DistributionMethod | M | 1 | Represents the distribution method for this MBS Distribution Session. |  |
| fecConfig | FECConfig | O | 0..1 | Represents the AL-FEC (Application Level – Forward Error Correction) configuration information to be used by the MBSTF to protect this MBS Distribution Session. |  |
| objDistrInfo | ObjectDistrMethInfo | C | 0..1 | Represents the MBS Distribution Session parameters for the case where the Object Distribution Method is used.  This attribute shall be present only when the "distrMethod" attribute value is set to "OBJECT".  (NOTE 3) |  |
| pckDistrInfo | PacketDistrMethInfo | C | 0..1 | Represents the MBS Distribution Session parameters for the case where the Packet Distribution Method is used.  This attribute shall be present only when the "distrMethod" attribute is set to "PACKET".  (NOTE 3) |  |
| trafficMarkingInfo | string | O | 0..1 | Contains traffic marking information (e.g. a Differentiated Services Code Point) to be applied by the MBSTF to outgoing traffic.  This attribute shall be encoded as a two octets string in hexadecimal representation. The first octet shall contain the DSCP value in the IPv4 Type-of-Service or the IPv6 Traffic-Class field, and the second octet shall contain the ToS/Traffic Class mask field, which shall be set to "0xFC". |  |
| tgtServAreas | MbsServiceArea | O | 0..1 | Represents the set of target service area(s) constituting the MBS Service Area of the MBS Distribution Session.  This attribute may be present only over the Nmb10 interface and only provided by a trusted/internal AF (i.e. MBS Application Provider).  (NOTE 4) |  |
| extTgtServAreas | ExternalMbsServiceArea | O | 0..1 | Represents the set of target service area(s) constituting the external MBS Service Area (i.e. list of geographical area(s) or civic address(es)) of the MBS Distribution Session.  This attribute may be present only over the N33, Nmb5 or Nmb10 interfaces and only provided by the NEF (over Nmb5) or an untrusted/external AF (MBS Application Provider).  (NOTE 4) |  |
| mbsFSAId | MbsFsaId | O | 0..1 | Represents MBS Frequency Selection Assistance information corresponding to this MBS Distribution Session. It is used to guide frequency selection at the UE for a broadcast MBS Session.  This attribute may be included only if the parent MBS User Service is of broadcast service type. |  |
| locationDependent | boolean | O | 0..1 | 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. |  |
| multiplexedServFlag | boolean | O | 0..1 | 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 set(s) of target service areas and multiplexed onto the same MBS Session.  This attribute shall be:  - set to "true" to indicate that the MBS Distribution Session belongs to a multiplex; or  - set to "false" to indicate that the MBS Distribution Session does not belong to a multiplex.  The default value is "false", if omitted. |  |
| restrictedFlag | boolean | O | 0..1 | 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:  - set 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. |  |
| NOTE 1: If this attribute is absent, TMGI allocation shall be performed by the MBSF and this attribute may be present in the HTTP POST response to the corresponding MBS User Data Ingest session creation request and contain the allocated TMGI value. It shall also be present, if available, in the HTTP PUT/PATCH response to the corresponding MBS User Data Ingest session update/modification request and contain the allocated TMGI value.  NOTE 2: If this attribute is present and contains only a source specific multicast address (SSM) and the "locationDependent" attribute is present and set to "true", then TMGI allocation shall be performed by the MBSF and this attribute may be present in the HTTP POST response to the corresponding MBS User Data Ingest session creation request and include the allocated TMGI value. It shall also be present, if available, in the HTTP PUT/PATCH response to the corresponding MBS User Data Ingest session update/modification request and contain the allocated TMGI value.  NOTE 3: The "objDistrInfo" attribute and the "pckDistrInfo" attribute are mutually exclusive. Either one of them shall be present.  NOTE 4: The "tgtServAreas" attribute and the "extTgtServAreas" attribute are mutually exclusive. Either one of them may be present. | | | | | |

Editor's note: definition of AssociatedSessionId in SA4 specifications is pending.

\* \* \* \* Next change \* \* \* \*

### 6.2.8 Feature negotiation

The optional features listed in table 6.2.8-1 are defined for the Nmbsf\_MBSUserDataIngestSession API. They shall be negotiated using the extensibility mechanism defined in clause 6.6 of 3GPP TS 29.500 [4].

Table 6.2.8-1: Supported Features

|  |  |  |
| --- | --- | --- |
| Feature number | Feature Name | Description |
| 1 | 5MBS2 | Represents the support of the Rel-18 enhancements (e.g. support of the "Associated Session ID") to 5G Multicast/Broadcast services. |

\* \* \* \* Next change \* \* \* \*

# A.3 Nmbsf\_MBSUserDataIngestSession API

openapi: 3.0.0

info:

title: nmbsf-mbs-ud-ingest

version: 1.1.0-alpha.2

description: |

API for MBS User Data Ingest Session Service.

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externalDocs:

description: >

3GPP TS 29.580 V18.1.0; 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: []

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: 0

'307':

$ref: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

$ref: 'TS29571\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29571\_CommonData.yaml#/components/responses/404'

'406':

$ref: 'TS29571\_CommonData.yaml#/components/responses/406'

'429':

$ref: 'TS29571\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29571\_CommonData.yaml#/components/responses/500'

'502':

$ref: 'TS29571\_CommonData.yaml#/components/responses/502'

'503':

$ref: 'TS29571\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29571\_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: 'TS29571\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29571\_CommonData.yaml#/components/responses/404'

'411':

$ref: 'TS29571\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29571\_CommonData.yaml#/components/responses/413'

'415':

$ref: 'TS29571\_CommonData.yaml#/components/responses/415'

'429':

$ref: 'TS29571\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29571\_CommonData.yaml#/components/responses/500'

'502':

$ref: 'TS29571\_CommonData.yaml#/components/responses/502'

'503':

$ref: 'TS29571\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29571\_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: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

$ref: 'TS29571\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29571\_CommonData.yaml#/components/responses/404'

'406':

$ref: 'TS29571\_CommonData.yaml#/components/responses/406'

'429':

$ref: 'TS29571\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29571\_CommonData.yaml#/components/responses/500'

'502':

$ref: 'TS29571\_CommonData.yaml#/components/responses/502'

'503':

$ref: 'TS29571\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29571\_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: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

$ref: 'TS29571\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29571\_CommonData.yaml#/components/responses/404'

'411':

$ref: 'TS29571\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29571\_CommonData.yaml#/components/responses/413'

'415':

$ref: 'TS29571\_CommonData.yaml#/components/responses/415'

'429':

$ref: 'TS29571\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29571\_CommonData.yaml#/components/responses/500'

'502':

$ref: 'TS29571\_CommonData.yaml#/components/responses/502'

'503':

$ref: 'TS29571\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29571\_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: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

$ref: 'TS29571\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29571\_CommonData.yaml#/components/responses/404'

'411':

$ref: 'TS29571\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29571\_CommonData.yaml#/components/responses/413'

'415':

$ref: 'TS29571\_CommonData.yaml#/components/responses/415'

'429':

$ref: 'TS29571\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29571\_CommonData.yaml#/components/responses/500'

'502':

$ref: 'TS29571\_CommonData.yaml#/components/responses/502'

'503':

$ref: 'TS29571\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29571\_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: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

$ref: 'TS29571\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29571\_CommonData.yaml#/components/responses/404'

'429':

$ref: 'TS29571\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29571\_CommonData.yaml#/components/responses/500'

'502':

$ref: 'TS29571\_CommonData.yaml#/components/responses/502'

'503':

$ref: 'TS29571\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29571\_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: 0

'307':

$ref: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

$ref: 'TS29571\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29571\_CommonData.yaml#/components/responses/404'

'406':

$ref: 'TS29571\_CommonData.yaml#/components/responses/406'

'429':

$ref: 'TS29571\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29571\_CommonData.yaml#/components/responses/500'

'502':

$ref: 'TS29571\_CommonData.yaml#/components/responses/502'

'503':

$ref: 'TS29571\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29571\_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: 'TS29571\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29571\_CommonData.yaml#/components/responses/404'

'411':

$ref: 'TS29571\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29571\_CommonData.yaml#/components/responses/413'

'415':

$ref: 'TS29571\_CommonData.yaml#/components/responses/415'

'429':

$ref: 'TS29571\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29571\_CommonData.yaml#/components/responses/500'

'502':

$ref: 'TS29571\_CommonData.yaml#/components/responses/502'

'503':

$ref: 'TS29571\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29571\_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: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

$ref: 'TS29571\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29571\_CommonData.yaml#/components/responses/404'

'411':

$ref: 'TS29571\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29571\_CommonData.yaml#/components/responses/413'

'415':

$ref: 'TS29571\_CommonData.yaml#/components/responses/415'

'429':

$ref: 'TS29571\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29571\_CommonData.yaml#/components/responses/500'

'502':

$ref: 'TS29571\_CommonData.yaml#/components/responses/502'

'503':

$ref: 'TS29571\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29571\_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: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

$ref: 'TS29571\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29571\_CommonData.yaml#/components/responses/404'

'406':

$ref: 'TS29571\_CommonData.yaml#/components/responses/406'

'429':

$ref: 'TS29571\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29571\_CommonData.yaml#/components/responses/500'

'502':

$ref: 'TS29571\_CommonData.yaml#/components/responses/502'

'503':

$ref: 'TS29571\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29571\_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: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

$ref: 'TS29571\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29571\_CommonData.yaml#/components/responses/404'

'411':

$ref: 'TS29571\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29571\_CommonData.yaml#/components/responses/413'

'415':

$ref: 'TS29571\_CommonData.yaml#/components/responses/415'

'429':

$ref: 'TS29571\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29571\_CommonData.yaml#/components/responses/500'

'502':

$ref: 'TS29571\_CommonData.yaml#/components/responses/502'

'503':

$ref: 'TS29571\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29571\_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: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

$ref: 'TS29571\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29571\_CommonData.yaml#/components/responses/404'

'411':

$ref: 'TS29571\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29571\_CommonData.yaml#/components/responses/413'

'415':

$ref: 'TS29571\_CommonData.yaml#/components/responses/415'

'429':

$ref: 'TS29571\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29571\_CommonData.yaml#/components/responses/500'

'502':

$ref: 'TS29571\_CommonData.yaml#/components/responses/502'

'503':

$ref: 'TS29571\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29571\_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: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

$ref: 'TS29571\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29571\_CommonData.yaml#/components/responses/404'

'429':

$ref: 'TS29571\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29571\_CommonData.yaml#/components/responses/500'

'502':

$ref: 'TS29571\_CommonData.yaml#/components/responses/502'

'503':

$ref: 'TS29571\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29571\_CommonData.yaml#/components/responses/default'

components:

securitySchemes:

oAuth2ClientCredentials:

type: oauth2

flows:

clientCredentials:

tokenUrl: '{tokenUrl}'

scopes: {}

description: >

When the Nmbsf\_MBSUserDataIngestSession is consumed by a trusted or internal AF, then

'nmbsf-mbs-ud-ingest' shall be used as the scope (i.e. with the 'scopes' property) and

'{nrfApiRoot}/oauth2/token' shall be used as the URI to retrieve the token

(i.e. 'tokenUri').

#

# STRUCTURED DATA TYPES

#

schemas:

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

nullable: true

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'

mbsUserServiceAnmt:

$ref: 'TS26517\_MBSUserServiceAnnouncement.yaml#/components/schemas/UserServiceDescription'

mbsUserServiceAnmtUrl:

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

suppFeat:

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

required:

- mbsUserServId

- mbsDisSessInfos

MBSDistributionSessionInfo:

description: Represents MBS Distribution Session information.

type: object

properties:

mbsDistSessionId:

type: string

mbsDistSessState:

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

mbsSessionId:

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

associatedSessionId:

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

mbsServInfo:

$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/ObjectDistrMethInfo'

pckDistrInfo:

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

trafficMarkingInfo:

type: string

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 set 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

nullable: true

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\_DistSession.yaml#/components/schemas/ObjDistributionOperatingMode'

objAcqMethod:

$ref: 'TS29581\_Nmbstf\_DistSession.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:

- operatingMode

- objAcqMethod

- objAcqIds

PacketDistrMethInfo:

description: >

Represents additional MBS Distribution Session parameters for the case of Packet

Distribution Method.

type: object

properties:

operatingMode:

$ref: 'TS29581\_Nmbstf\_DistSession.yaml#/components/schemas/PktDistributionOperatingMode'

pckIngMethod:

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

ingEndpointAddrs:

$ref: 'TS29581\_Nmbstf\_DistSession.yaml#/components/schemas/MbStfIngestAddr'

required:

- operatingMode

- pckIngMethod

- 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

mbsSessionId:

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

statusAddInfo:

type: string

timeStamp:

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

required:

- statusEvent

- timeStamp

MBSUserServAnmt:

deprecated: true

description: >

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

Ingest Session.

type: object

properties:

extServiceId:

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: 'TS29580\_Nmbsf\_MBSUserService.yaml#/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:

- extServiceId

- servClass

- servNameDescs

MBSDistSessionAnmt:

description: >

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

MBS User Service Announcement.

type: object

properties:

mbsSessionId:

$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:

anyOf:

- type: string

enum:

- OBJECT

- PACKET

- type: string

description: >

This string provides forward-compatibility with future extensions to the enumeration

and is not used to encode content defined in the present version of this API.

description: |

Represents the MBS Distribution method.

Possible values are:

- OBJECT: Indicates the Object Distribution Method.

- PACKET: Indicates the Packet Distribution Method.

Event:

anyOf:

- 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

- DELIVERY\_STARTED

- SESSION\_TERMINATED

- type: string

description: >

This string provides forward-compatibility with future extensions to the enumeration

and is not used to encode content defined in the present version of this API.

description: |

Represents the MBS User Data Ingest Session Status events.

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.

- DELIVERY\_STARTED: >

The MBS User Data delivery is started.

- SESSION\_TERMINATED: >

The MBS User Data Ingest Session is terminated.

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