**3GPP TSG CT WG3 Meeting #138 *C3-246358***

**Orlando, US, 18 - 22 November, 2024** (revision of C3-246122)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **549** | **CR** |  | **rev** | **1** | **Current version:** |  |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | SEAL – Correcting structured data types in query parameters | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Samsung, Ericsson | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NBI19 | | | | |  | ***Date:*** | | | 2024-11-11 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | |  |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories 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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | During CT3#137 meeting, it was discussed to clarify the formatting of the structured data types in query parameters. The NBI APIs should be consistent in formatting of the structured data types in query parameters, i.e, should be “content”” block with “application/JSON” media type. The formatting of the following query parameters in SEAL APIs need to be clarified:  SS\_UserProfileRetrieval API: "val-tgt-ue"  SS\_NetworkResourceAdaptation API: "stream-specs"  SS\_KeyInfoRetrieval API: "val-tgt-ue"  SS\_LocationAreaInfoRetrieval API: "location-info" | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Clarify the formatting of following structured data type query parameters:  SS\_UserProfileRetrieval API: "val-tgt-ue"  SS\_NetworkResourceAdaptation API: "stream-specs"  SS\_KeyInfoRetrieval API: "val-tgt-ue"  SS\_LocationAreaInfoRetrieval API: "location-info" | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Inconsistent formatting of the query parameters. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | A.4, A.5, A.7, A.8 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | | This CR proposes backward compatible correction to the following Open API specification files: SS\_UserProfileRetrieval, SS\_NetworkResourceAdaptation API, SS\_KeyInfoRetrieval API, SS\_LocationAreaInfoRetrieval API | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\* \* \* \* Start of Changes \* \* \* \*

# A.4 SS\_UserProfileRetrieval API

openapi: 3.0.0

info:

title: SS\_UserProfileRetrieval

description: |

API for SEAL User Profile Retrieval.

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version: "1.2.0"

externalDocs:

description: >

3GPP TS 29.549 V18.6.0 Service Enabler Architecture Layer for Verticals (SEAL);

Application Programming Interface (API) specification; Stage 3.

url: https://www.3gpp.org/ftp/Specs/archive/29\_series/29.549/

security:

- {}

- oAuth2ClientCredentials: []

servers:

- url: '{apiRoot}/ss-upr/v1'

variables:

apiRoot:

default: https://example.com

description: apiRoot as defined in clause 6.5 of 3GPP TS 29.549

paths:

/val-services:

get:

description: Retrieve VAL User or VAL UE profile information.

operationId: RetrieveValUserProfile

tags:

- VAL Services

parameters:

- name: val-service-id

in: query

description: String identifying an individual VAL service

required: false

schema:

type: string

- name: val-tgt-ue

in: query

description: Identifying a VAL target UE.

required: true

content:

application/json:

schema:

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

responses:

'200':

description: The Profile information of the VAL User or VAL UE.

content:

application/json:

schema:

type: array

items:

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

minItems: 0

'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'

components:

securitySchemes:

oAuth2ClientCredentials:

type: oauth2

flows:

clientCredentials:

tokenUrl: '{tokenUrl}'

scopes: {}

schemas:

ProfileDoc:

description: Represents the profile information associated with a VAL user ID or a VAL UE ID.

type: object

properties:

profileInformation:

type: string

description: Profile information associated with the valUserId or valUeId.

valTgtUe:

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

required:

- profileInformation

- valTgtUe

ValTargetUe:

description: Represents the information identifying a VAL user ID or a VAL UE ID.

type: object

properties:

valUserId:

type: string

description: Unique identifier of a VAL user.

valUeId:

type: string

description: Unique identifier of a VAL UE.

oneOf:

- required: [valUserId]

- required: [valUeId]

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

# A.5 SS\_NetworkResourceAdaptation API

openapi: 3.0.0

info:

version: 1.3.0-alpha.1

title: SS\_NetworkResourceAdaptation

description: |

SS Network Resource Adaptation Service.

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externalDocs:

description: >

3GPP TS 29.549 V19.0.0; Service Enabler Architecture Layer for Verticals (SEAL);

Application Programming Interface (API) specification; Stage 3.

url: https://www.3gpp.org/ftp/Specs/archive/29\_series/29.549/

security:

- {}

- oAuth2ClientCredentials: []

servers:

- url: '{apiRoot}/ss-nra/v1'

variables:

apiRoot:

default: https://example.com

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

paths:

/multicast-subscriptions:

post:

summary: Creates a new Individual Multicast Subscription resource

operationId: CreateMulticastSubscription

tags:

- Multicast Subscriptions (Collection)

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'201':

description: Success

content:

application/json:

schema:

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

headers:

Location:

description: >

Contains the URI of the created individual multicast subscription resource.

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:

UserPlaneNotification:

'{$request.body#/notifUri}':

post:

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'204':

description: No Content, Notification was succesfull

'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'

/multicast-subscriptions/{multiSubId}:

get:

summary: "Reads an existing Individual Multicast Subscription"

operationId: GetMulticastSubscription

tags:

- Individual Multicast Subscription (Document)

parameters:

- name: multiSubId

in: path

description: Multicast Subscription ID

required: true

schema:

type: string

responses:

'200':

description: OK. Resource representation is returned

content:

application/json:

schema:

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

'307':

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

'308':

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

'400':

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

'401':

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

'403':

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

'404':

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

'406':

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

'429':

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

'500':

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

'503':

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

default:

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

delete:

summary: "Delete an existing Individual Multicast Subscription"

operationId: DeleteMulticastSubscription

tags:

- Individual Multicast Subscription (Document)

parameters:

- name: multiSubId

in: path

description: Multicast Subscription ID

required: true

schema:

type: string

responses:

'204':

description: No Content. Resource was succesfully 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'

/mbs-resources:

post:

summary: Request the creation of a new MBS Resource.

operationId: CreateMBSResource

tags:

- MBS Resources (Collection)

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'201':

description: >

Created. Successfull case. The requested MBS resource is successfully created and a

representation of the created Individual MBS Resource resource is returned in the

response body.

content:

application/json:

schema:

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

headers:

Location:

description: >

Contains the URI of the created Individual MBS Resource resource.

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:

UserPlaneNotification:

'{$request.body#/notifUri}':

post:

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'204':

description: No Content. The notification was succesfully received.

'307':

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

'308':

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

'400':

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

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

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

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

'411':

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

'413':

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

'415':

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

'429':

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

'500':

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

'503':

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

default:

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

/mbs-resources/{mbsResId}:

parameters:

- name: mbsResId

in: path

description: Represents the identifier of the Individual MBS Resource resource.

required: true

schema:

type: string

get:

summary: Request the retrieval of an existing Individual MBS Resource.

operationId: GetIndivMBSResource

tags:

- Individual MBS Resource (Document)

responses:

'200':

description: >

OK. Successful case. A representation of the requested Individual MBS Resource resource

is returned in the response body.

content:

application/json:

schema:

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

'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 Resource.

operationId: UpdateIndivMBSResource

tags:

- Individual MBS Resource (Document)

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'200':

description: >

OK. Successful case. The targeted Individual MBS Resource resource is successfully

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

content:

application/json:

schema:

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

'204':

description: >

No Content. Successful case. The targeted Individual MBS Resource 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'

'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 Resource.

operationId: ModifyIndivMBSResource

tags:

- Individual MBS Resource (Document)

requestBody:

required: true

content:

application/merge-patch+json:

schema:

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

responses:

'200':

description: >

OK. Successful case. The targeted Individual MBS Resource resource is successfully

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

content:

application/json:

schema:

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

'204':

description: >

No Content. Successful case. The targeted Individual MBS Resource 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'

'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 Resource.

operationId: DeleteIndivMBSResource

tags:

- Individual MBS Resource (Document)

responses:

'204':

description: >

No Content. Successful case. The targeted Individual MBS Resource 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'

/mbs-resources/{mbsResId}/activate:

parameters:

- name: mbsResId

in: path

description: Represents the identifier of the Individual MBS Resource resource.

required: true

schema:

type: string

post:

summary: Request the activation of an existing MBS Resource.

operationId: ActivateMBSResource

tags:

- Individual MBS Resource (Document)

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'200':

description: >

OK. The activation request is successfully received and processed.

content:

application/json:

schema:

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

'307':

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

'308':

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

'400':

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

'401':

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

'403':

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

'404':

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

'411':

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

'413':

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

'415':

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

'429':

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

'500':

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

'503':

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

default:

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

/mbs-resources/{mbsResId}/deactivate:

parameters:

- name: mbsResId

in: path

description: Represents the identifier of the Individual MBS Resource resource.

required: true

schema:

type: string

post:

summary: Request the deactivation of an existing MBS Resource.

operationId: DeactivateMBSResource

tags:

- Individual MBS Resource (Document)

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'200':

description: >

OK. The deactivation request is successfully received and processed.

content:

application/json:

schema:

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

'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'

/unicast-subscriptions:

post:

summary: Creates a new Individual Unicast Subscription resource

operationId: CreateUnicastSubscription

tags:

- Unicast Subscriptions (Collection)

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'201':

description: Success

content:

application/json:

schema:

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

headers:

Location:

description: >

Contains the URI of the created individual unicast subscription resource.

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:

UserPlaneNotification:

'{$request.body#/notifUri}':

post:

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'204':

description: No Content, Notification was succesfull

'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'

/unicast-subscriptions/{uniSubId}:

get:

summary: "Reads an existing Individual Unicast Subscription"

operationId: GetUnicastSubscription

tags:

- Individual Unicast Subscription (Document)

parameters:

- name: uniSubId

in: path

description: Unicast Subscription ID

required: true

schema:

type: string

responses:

'200':

description: OK. Resource representation is returned

content:

application/json:

schema:

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

'307':

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

'308':

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

'400':

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

'401':

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

'403':

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

'404':

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

'406':

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

'429':

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

'500':

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

'503':

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

default:

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

delete:

summary: "Delete an existing Individual Unicast Subscription"

operationId: DeleteUnicastSubscription

tags:

- Individual Unicast Subscription (Document)

parameters:

- name: uniSubId

in: path

description: Unicast Subscription ID

required: true

schema:

type: string

responses:

'204':

description: No Content. Resource was succesfully 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'

/tsc-stream-availability:

get:

summary: Discover the TSC stream availability information.

operationId: GetTscStreamAvailability

tags:

- TSC stream availability discovery

parameters:

- name: stream-specs

in: query

description: >

The MAC address(es) of the source DS-TT port(s) and the destination DS-TT port(s).

required: true

content:

application/json:

schema:

type: array

items:

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

minItems: 1

responses:

'200':

description: OK.

content:

application/json:

schema:

type: array

items:

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

minItems: 0

'204':

description: No Content.

'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'

/tsc-streams:

get:

summary: Retrieval of TSC stream data.

operationId: GetTscStream

tags:

- TSC stream retrieval

parameters:

- name: val-stream-ids

in: query

description: Retrieval of TSC Stream data, identified by the VAL Stream ID(s).

required: false

schema:

type: array

items:

type: string

minItems: 1

responses:

'200':

description: OK (successful query of TSC stream resource)

content:

application/json:

schema:

type: array

items:

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

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'

/tsc-streams/{valStreamId}:

get:

summary: "Reads an existing Individual TSC stream data information"

operationId: GetTscStreamData

tags:

- Individual TSC Stream Retrieval

parameters:

- name: valStreamId

in: path

description: The VAL Stream ID identifies the TSC stream.

required: true

schema:

type: string

responses:

'200':

description: OK. Resource representation is returned

content:

application/json:

schema:

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

'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: Create a TSC stream identified by a VAL stream identifier.

operationId: PutTscStream

tags:

- TSC stream creation

description: Create an individual TSC stream identified by VAL Stream ID.

parameters:

- name: valStreamId

in: path

description: VAL stream identifier

required: true

schema:

type: string

requestBody:

description: TSC stream creation request data from the VAL server to the NRM server.

required: true

content:

application/json:

schema:

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

responses:

'201':

description: Success

content:

application/json:

schema:

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

headers:

Location:

description: Contains the URI of the created individual TSC stream resource.

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'

delete:

summary: "Delete an existing Individual TSC stream"

operationId: DeleteTscStream

tags:

- Individual TSC Stream Deletion

parameters:

- name: valStreamId

in: path

description: The VAL Stream ID identifies the TSC stream.

required: true

schema:

type: string

responses:

'204':

description: No Content. Resource was succesfully 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'

/bdt-policy-configs:

post:

summary: Creates a new Individual BDT Policy Configuration

operationId: CreateBDTPolicyConfig

tags:

- BDT Policy Configurations (Collection)

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'201':

description: Success

content:

application/json:

schema:

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

headers:

Location:

description: >

Contains the URI of the created individual BDT Policy configuration resource.

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:

BdtNotification:

'{$request.body#/notifUri}':

post:

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'204':

description: No Content, Notification was successful

'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'

/bdt-policy-configs/{bdtPolConfigId}:

parameters:

- name: bdtPolConfigId

in: path

description: Represents the identifier of the Individual BDT Policy Configuration.

required: true

schema:

type: string

get:

summary: Reads an existing Individual BDT Policy Configuration

operationId: GetBDTPolicyConfig

tags:

- Individual BDT Policy Configuration(Document)

responses:

'200':

description: OK. Resource representation is returned

content:

application/json:

schema:

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

'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 BDT Policy Configuration.

operationId: UpdateBDTPolicyConfig

tags:

- Individual BDT Policy Configuration(Document)

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'200':

description: >

OK. Successful case. The targeted Individual BDT Policy Configuration resource

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

in the response body.

content:

application/json:

schema:

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

'204':

description: >

No Content. Successful case. The targeted Individual BDT Policy Configuration

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 BDT Policy Configuration.

operationId: ModifyBDTPolicyConfig

tags:

- Individual BDT Policy Configuration(Document)

requestBody:

required: true

content:

application/merge-patch+json:

schema:

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

responses:

'200':

description: >

OK. Successful case. The targeted Individual BDT Policy Configuration resource

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

in the response body.

content:

application/json:

schema:

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

'204':

description: >

No Content. Successful case. The targeted Individual BDT Policy Configuration

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: Delete an existing Individual BDT policy Configuration

operationId: DeleteBDTPolicyConfig

tags:

- Individual BDT Policy Configuration (Document)

responses:

'204':

description: No Content. Resource was 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'

/request-rel-trans:

post:

summary: Enables a service consumer to request reliable transmission service.

operationId: RelTransRequest

tags:

- Reliable Transmission Service Request

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'204':

description: >

No Content. The reliable transmission service request is successfully received and

processed.

'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'

/unif-traff-subscriptions:

post:

summary: Creates a new Individual Unified Traffic Pattern Subscription.

operationId: CreateUnifiedTrafficPatternSubsc

tags:

- Unified Traffic Pattern Subscriptions (Collection)

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'201':

description: Success

content:

application/json:

schema:

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

headers:

Location:

description: >

Contains the URI of the created individual unified traffic pattern subscription

resource.

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:

UnfTrafficUpdNotification:

'{$request.body#/notifUri}':

post:

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'204':

description: No Content, Notification was successful

'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'

/unif-traff-subscriptions/{unfTrffSubId}:

parameters:

- name: unfTrffSubId

in: path

description: >

Represents the identifier of the Individual Unified Traffic Pattern Subscription resource.

required: true

schema:

type: string

get:

summary: Reads an existing Individual Unified Traffic Pattern Subscription.

operationId: GetUnfTrffSubc

tags:

- Individual Unified Traffic Pattern Subscription (Document)

responses:

'200':

description: OK. Resource representation is returned.

content:

application/json:

schema:

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

'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: Update an existing Individual Unified Traffic Pattern Subscription.

operationId: UpdateUnfTrffSubc

tags:

- Individual Unified Traffic Pattern Subscription (Document)

requestBody:

description: Updated details of the Unified Traffic Pattern subscription.

required: true

content:

application/json:

schema:

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

responses:

'200':

description: >

The subscription is updated successfully, and the updated subscription

information returned in the response.

content:

application/json:

schema:

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

'204':

description: No Content. The subscription is updated successfully.

'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: Modify an existing Individual Unified Traffic Pattern Subscription.

operationId: ModifyUnfTrffSubc

tags:

- Individual Unified Traffic Pattern Subscription (Document)

requestBody:

required: true

content:

application/merge-patch+json:

schema:

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

responses:

'200':

description: >

The individual Unified Traffic Pattern subscription is

modified successfully, and the representation of the modified resource

is returned.

content:

application/json:

schema:

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

'204':

description: No Content. The subscription is modified successfully.

'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: Delete an existing Individual Unified Traffic Pattern Subscription

operationId: DeleteUnfTrffSubc

tags:

- Individual Unified Traffic Pattern Subscription (Document)

responses:

'204':

description: No Content. Resource was successfully deleted

'307':

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

'308':

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

'400':

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

'401':

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

'403':

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

'404':

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

'429':

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

'500':

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

'503':

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

default:

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

components:

securitySchemes:

oAuth2ClientCredentials:

type: oauth2

flows:

clientCredentials:

tokenUrl: '{tokenUrl}'

scopes: {}

schemas:

MulticastSubscription:

description: Represents a multicast subscription.

type: object

properties:

valGroupId:

type: string

anncMode:

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

multiQosReq:

type: string

locArea:

$ref: 'TS29122\_GMDviaMBMSbyMB2.yaml#/components/schemas/MbmsLocArea'

duration:

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

tmgi:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

localMbmsInfo:

$ref: 'TS29486\_VAE\_FileDistribution.yaml#/components/schemas/LocalMbmsInfo'

localMbmsActInd:

type: boolean

notifUri:

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

reqTestNotif:

type: boolean

wsNotifCfg:

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

suppFeat:

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

upIpv4Addr:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv4Addr'

upIpv6Addr:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv6Addr'

upPortNum:

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

radioFreqs:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

minItems: 1

required:

- valGroupId

- anncMode

- multiQosReq

- notifUri

UnicastSubscription:

description: Represents a unicast subscription.

type: object

properties:

valTgtUe:

$ref: 'TS29549\_SS\_UserProfileRetrieval.yaml#/components/schemas/ValTargetUe'

uniQosReq:

type: string

duration:

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

notifUri:

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

reqTestNotif:

type: boolean

wsNotifCfg:

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

suppFeat:

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

required:

- valTgtUe

- notifUri

UserPlaneNotification:

description: Represents a notification on User Plane events.

type: object

properties:

notifId:

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

eventNotifs:

type: array

items:

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

minItems: 1

required:

- notifId

- eventNotifs

NrmEventNotification:

description: Represents a notification on an individual User Plane event.

type: object

properties:

event:

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

ts:

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

deliveryMode:

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

streamIds:

type: array

items:

type: string

minItems: 1

required:

- event

- ts

TscStreamAvailability:

description: >

TSC stream availability information includes the stream specification and list of traffic

specifications. This response shall include stream specification matching one of the query

parameters provided in the request.

type: object

properties:

streamSpec:

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

trafficSpecs:

type: array

items:

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

minItems: 1

required:

- streamSpec

- trafficSpecs

StreamSpecification:

description: >

Stream specification includes MAC addresses of the source and destination DS-TT ports.

type: object

properties:

srcMacAddr:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/MacAddr48'

dstMacAddr:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/MacAddr48'

required:

- srcMacAddr

- dstMacAddr

TrafficSpecification:

description: >

The traffic classe supported by the DS-TTs and available end-to-end maximum latency value.

type: object

properties:

trafficClass:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

e2eMaxLatency:

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

required:

- trafficClass

- e2eMaxLatency

TscStreamData:

description: TSC stream data information.

type: object

properties:

streamSpec:

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

trafficSpecInfo:

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

required:

- streamSpec

- trafficSpecInfo

TrafficSpecInformation:

description: >

The traffic classe supported by the DS-TTs and available end-to-end latency

value and Priority Code Point (PCP) value.

type: object

properties:

pcpValue:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

maxFramInt:

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

maxFramSize:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

maxIntFrames:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

maxLatency:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

required:

- pcpValue

- maxFramInt

- maxFramSize

- maxIntFrames

- maxLatency

MBSResourceReq:

description: Represents the parameters to request the creation of an MBS Resource.

type: object

properties:

mbsResource:

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

suppFeat:

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

required:

- mbsResource

MBSResource:

description: Represents an MBS Resource.

type: object

properties:

valGroupId:

type: string

valUeIdsList:

type: array

items:

$ref: 'TS29549\_SS\_UserProfileRetrieval.yaml#/components/schemas/ValTargetUe'

minItems: 1

servAnmtMode:

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

mbsResServInfo:

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

mbsResServiceArea:

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

notifUri:

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

netSysInd:

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

localMbmsInfo:

$ref: 'TS29486\_VAE\_FileDistribution.yaml#/components/schemas/LocalMbmsInfo'

localMbmsActInd:

type: boolean

mbsResRespInfo:

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

oneOf:

- required: [valGroupId]

- required: [valUeIdsList]

not:

required: [localMbmsInfo, localMbmsActInd]

required:

- servAnmtMode

- mbsResServInfo

- notifUri

MBSResourceRespInfo:

description: Represents NRM Server side information related to the MBS Resource.

type: object

properties:

mbs5gSessionId:

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

mbmsBearerId:

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

upIpv4Addr:

$ref: 'TS29122\_CommonData.yaml#/components/schemas/Ipv4Addr'

upIpv6Addr:

$ref: 'TS29122\_CommonData.yaml#/components/schemas/Ipv6Addr'

upPortNum:

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

mbs5GInfo:

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

epsMbmsInfo:

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

anyOf:

- required: [upIpv4Addr]

- required: [upIpv6Addr]

MBSResourceResp:

description: Represents a response to an MBS Resource creation/modification request.

type: object

properties:

mbsResource:

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

suppFeat:

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

required:

- mbsResource

MBSResourcePatch:

description: Represents the parameters to request the modification of an MBS Resource.

type: object

properties:

mbsResServInfo:

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

mbsResServiceArea:

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

notifUri:

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

localMbmsInfo:

$ref: 'TS29486\_VAE\_FileDistribution.yaml#/components/schemas/LocalMbmsInfo'

localMbmsActInd:

type: boolean

mbsResRespInfo:

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

anyOf:

- required: [mbsResServInfo]

- required: [mbsResServiceArea]

- required: [localMbmsInfo]

not:

required: [localMbmsInfo, localMbmsActInd]

MbsResAct:

description: Represents the parameters related to the activation of the MBS Resource.

type: object

properties:

mbs5gSessionId:

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

suppFeat:

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

required:

- mbs5gSessionId

MbsResDeact:

description: Represents the parameters related to the deactivation of the MBS Resource.

type: object

properties:

mbs5gSessionId:

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

suppFeat:

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

required:

- mbs5gSessionId

BdtPolConfig:

description: Represents the parameters related to the BDT Policy configuration.

type: object

properties:

valServId:

type: string

valGroupId:

type: string

valUeIds:

type: array

items:

type: string

minItems: 1

dataVolUe:

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

desiredTimeWindow:

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

grantTimeWindow:

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

desiredGeoArea:

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

expTime:

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

policyGuidance:

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

bdtPolRefId:

type: string

notifUri:

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

suppFeat:

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

oneOf:

- required: [valGroupId]

- required: [valUeIds]

required:

- valServId

- notifUri

- dataVolUe

- desiredTimeWindow

- desiredGeoArea

BdtPolConfigPatch:

description: >

Represents the parameters to request modification of the BDT Policy configuration.

type: object

properties:

dataVolUe:

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

desiredTimeWindow:

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

desiredGeoArea:

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

expTime:

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

PolicyGuidance:

description: >

Represents the list of Policy Guidance.

type: object

properties:

policyType:

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

cost:

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

GeoArea:

description: Represents a Geographical area.

type: object

properties:

geographicAreas:

type: array

items:

$ref: 'TS29572\_Nlmf\_Location.yaml#/components/schemas/GeographicArea'

minItems: 1

description: Represents a list of Geographical area.

civicAddresses:

type: array

items:

$ref: 'TS29572\_Nlmf\_Location.yaml#/components/schemas/CivicAddress'

minItems: 1

description: Represents a list of Civic address of an area.

BdtNotification:

description: Represents a notification on update related to BDT Policy configuration resource.

type: object

properties:

notifId:

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

bdtConfigId:

type: string

grantTimeWindow:

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

bdtPolicyRemoveInd:

type: boolean

default: false

required:

- notifId

- bdtConfigId

UnfTrafficSubc:

description: Represents the request parameters for Unified Traffic Pattern subscription.

type: object

properties:

mgmtSubs:

type: object

additionalProperties:

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

minProperties: 1

description: >

Contains contains the unified traffic pattern subscription(s).

The key of the map is any unique string encoded value.

notifUri:

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

suppFeat:

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

required:

- mgmtSubs

- notifUri

UnfTrafficSubcPatch:

description: Represents the request parameters to update Unified Traffic Pattern subscription.

type: object

properties:

mgmtSubs:

type: object

additionalProperties:

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

minProperties: 1

description: >

Contains contains the unified traffic pattern subscription(s).

The key of the map is any unique string encoded value.

notifUri:

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

ManagementSubc:

description: Represents the Unified Traffic Pattern subscription details.

type: object

properties:

valServId:

type: string

valUeIds:

type: array

items:

type: string

minItems: 1

traffPatInd:

type: array

items:

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

minItems: 1

traffPatConfig:

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

required:

- valServId

- valUeIds

- traffPatInd

TrafficPatternConfig:

description: Represents the traffic pattern configuration parameters.

type: object

properties:

scheds:

type: array

items:

$ref: 'TS29122\_CpProvisioning.yaml#/components/schemas/ScheduledCommunicationTime'

minItems: 1

expTime:

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

stationInd:

type: boolean

default: false

UnfTrafficUpdNotification:

description: Represents a notification on update related to unified traffic pattern.

type: object

properties:

valUeIds:

type: array

items:

type: string

minItems: 1

sched:

$ref: 'TS29122\_CpProvisioning.yaml#/components/schemas/ScheduledCommunicationTime'

stationInd:

type: boolean

default: false

cause:

type: string

required:

- valUeIds

RelTransReq:

description: Represents the parameters to request reliable transmission service.

type: object

properties:

requestorId:

type: string

appDescs:

type: array

items:

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

minItems: 2

valUeId:

type: string

valAddrInfo:

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

suppFeat:

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

required:

- requestorId

AppTraffDesc:

description: Represents the application traffic descriptor.

type: object

properties:

connInfo:

$ref: 'TS29548\_SDD\_Transmission.yaml#/components/schemas/ConnInfo'

transProtoc:

$ref: 'TS29558\_Eees\_EASRegistration.yaml#/components/schemas/TransportProtocol'

required:

- connInfo

ValUeAddrInfo:

description: Represents VAL UE address information.

type: object

properties:

valUeIpv4Addr:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv4Addr'

valUeIpv6Addr:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv6Addr'

port:

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

oneOf:

- required: [valUeIpv4Addr]

- required: [valUeIpv6Addr]

# Simple data types and Enumerations

EpsMbmsInfo:

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

ServiceAnnoucementMode:

anyOf:

- type: string

enum:

- NRM

- VAL

- type: string

description: >

This string provides forward-compatibility with future

extensions to the enumeration but is not used to encode

content defined in the present version of this API.

description: |

Indicates the service announcement mode.

Possible values are:

- NRM: NRM server performs the service announcement.

- VAL: VAL server performs the service announcement.

DeliveryMode:

anyOf:

- type: string

enum:

- UNICAST

- MULTICAST

- MBS\_MULTICAST

- MBS\_BROADCAST

- type: string

description: >

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

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

description: |

Indicates the user plane delivery mode.

Possible values are:

- UNICAST: Indicates Unicast delivery.

- MULTICAST: Indicates EPS MBMS Multicast delivery.

- MBS\_MULTICAST: Indicates 5GS MBS Multicast delivery.

- MBS\_BROADCAST: Indicates 5GS MBS Broadcast delivery.

NrmEvent:

anyOf:

- type: string

enum:

- UP\_DELIVERY\_MODE

- type: string

description: >

This string provides forward-compatibility with future

extensions to the enumeration but is not used to encode

content defined in the present version of this API.

description: |

Indicates the NRM event.

Possible values are:

- UP\_DELIVERY\_MODE: User Plane delivery mode.

NetSysIndicator:

anyOf:

- type: string

enum:

- 5GS

- EPS

- 5GS\_AND\_EPS

- type: string

description: >

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

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

description: |

Represents the network system indicator, i.e. 5GS, EPS or both.

Possible values are:

- 5GS: Indicates that the network system is 5GS.

- EPS: Indicates that the network system is EPS.

- 5GS\_AND\_EPS: Indicates that the network system is 5GS and EPS.

PolicyType:

anyOf:

- type: string

enum:

- LOWEST\_COST

- HIGH\_THROUGHPUT\_WITH\_COST

- type: string

description: >

This string provides forward-compatibility with future

extensions to the enumeration but is not used to encode

content defined in the present version of this API.

description: |

Indicates the Policy types.

Possible values are:

- LOWEST\_COST: Indicates that the policy guidance is to consider lowest cost.

- HIGH\_THROUGHPUT\_WITH\_COST: Indicates that the policy guidance is to consider highest

throughput.

TrafficPatternIndication:

anyOf:

- type: string

enum:

- TRAFFIC\_PATTERN\_MANAGE

- TRAFFIC\_PATTERN\_MONITOR

- NETWORK\_PARAM\_COORDINATION

- type: string

description: >

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

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

description: |

Represents the unified traffic pattern indication requests.

Possible values are:

- TRAFFIC\_PATTERN\_MANAGE: Indicates management of the UE unified traffic pattern request.

- TRAFFIC\_PATTERN\_MONITOR: Indicates monitoring of the UE unified traffic pattern.

- NETWORK\_PARAM\_COORDINATION: Indicates network parameter coordination by NRM with 5GC.

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

# A.7 SS\_KeyInfoRetrieval API

openapi: 3.0.0

info:

title: SS\_KeyInfoRetrieval

description: |

API for SEAL Key Information Retrieval.

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version: "1.1.1"

externalDocs:

description: >

3GPP TS 29.549 V17.6.0 Service Enabler Architecture Layer for Verticals (SEAL);

Application Programming Interface (API) specification; Stage 3.

url: https://www.3gpp.org/ftp/Specs/archive/29\_series/29.549/

security:

- {}

- oAuth2ClientCredentials: []

servers:

- url: '{apiRoot}/ss-kir/v1'

variables:

apiRoot:

default: https://example.com

description: apiRoot as defined in clause 6.5 of 3GPP TS 29.549

paths:

/key-records:

get:

description: Retrieve key management information specific to VAL service.

operationId: RetrieveKeyMgmtInfo

tags:

- Key Records (Collection)

parameters:

- name: val-service-id

in: query

description: String identifying an individual VAL service

required: true

schema:

type: string

- name: val-tgt-ue

in: query

description: Identifying a VAL target.

required: false

content:

application/json:

schema:

$ref: 'TS29549\_SS\_UserProfileRetrieval.yaml#/components/schemas/ValTargetUe'

responses:

'200':

description: The key management information of the VAL service, VAL User or VAL UE.

content:

application/json:

schema:

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

'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'

components:

securitySchemes:

oAuth2ClientCredentials:

type: oauth2

flows:

clientCredentials:

tokenUrl: '{tokenUrl}'

scopes: {}

schemas:

ValKeyInfo:

description: >

Represents key management information associated with VAL server, VAL user or VAL UE.

type: object

properties:

userUri:

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

skmsId:

type: string

description: String identifying the key management server.

valService:

type: string

description: Unique identifier of a VAL Service.

valTgtUe:

$ref: 'TS29549\_SS\_UserProfileRetrieval.yaml#/components/schemas/ValTargetUe'

keyInfo:

type: string

description: Key management information specific to VAL service, VAL User or VAL UE.

required:

- userUri

- valService

- keyInfo

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

# A.8 SS\_LocationAreaInfoRetrieval API

openapi: 3.0.0

info:

title: SS\_LocationAreaInfoRetrieval

description: |

API for SEAL Location Area Info Retrieval.

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version: "1.1.0"

externalDocs:

description: >

3GPP TS 29.549 V18.6.0 Service Enabler Architecture Layer for Verticals (SEAL);

Application Programming Interface (API) specification; Stage 3.

url: https://www.3gpp.org/ftp/Specs/archive/29\_series/29.549/

security:

- {}

- oAuth2ClientCredentials: []

servers:

- url: '{apiRoot}/ss-lair/v1'

variables:

apiRoot:

default: https://example.com

description: apiRoot as defined in clause 6.5 of 3GPP TS 29.549

paths:

/location-retrievals:

get:

description: >

Retrieve the UE(s) information in an application defined proximity range of a location.

operationId: RetrieveUeLocInfo

tags:

- Location Information (Collection)

parameters:

- name: location-info

in: query

description: Location information around which the UE(s) information is requested.

required: true

content:

application/json:

schema:

$ref: 'TS29122\_MonitoringEvent.yaml#/components/schemas/LocationInfo'

- name: val-svc-area-id

in: query

description: >

The val service area identifier around which which the UE(s) information is requested.

schema:

$ref: 'TS29549\_SS\_VALServiceAreaConfiguration.yaml#/components/schemas/ValSvcAreaId'

- name: range

in: query

description: >

The range information over which the UE(s) information is required,

expressed in meters.

required: true

schema:

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

responses:

'200':

description: >

The UE(s) information in an application defined proximity range of a location.

content:

application/json:

schema:

type: array

items:

$ref: 'TS29549\_SS\_Events.yaml#/components/schemas/LMInformation'

minItems: 0

description: >

The UE(s) information in an application defined proximity range of a location.

'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'

components:

securitySchemes:

oAuth2ClientCredentials:

type: oauth2

flows:

clientCredentials:

tokenUrl: '{tokenUrl}'

scopes: {}

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