**TSG-CT WG3 Meeting #108-e *C3-201338***

**E-Meeting, 19th – 28th February 2020 (Revision of C3-201133)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.519** | **CR** | **0170** | **rev** | **1** | **Current version:** | **16.2.0** |  |
|  | | | | | | | | |
| *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:*** | Indication of traffic correlation | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | Vertical\_LAN | | | | |  | ***Date:*** | | | 2020-02-17 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | For AF traffic influence procedure, indication of traffic correlation may be included as part of traffic routing requirement, it is used to indicate for a group of UEs, their targeted PDU sessions should be correlated by a common DNAI (selected from the list of DNAIs provided by the AF) in the user plane. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Define an indication of traffic correlation. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Missed requirement. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6.4.2.2; 6.4.2.3; 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 CR introduces backward compatible feature into OpenAPI file of Nudrt\_DataRepository API for Application Data. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

**Additional discussion(if needed):**

**…**

**Proposed changes:**

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

#### 6.4.2.2 Type TrafficInfluData

Table 6.4.2.2-1: Definition of type TrafficInfluData

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute name** | **Data type** | **P** | **Cardinality** | **Description** | **Applicability** |
| upPathChgNotifCorreId | string | C | 0..1 | Contains the Notification Correlation Id allocated by the NEF for the UP path change notification. It shall be included when the NEF requests the UP path change notification. |  |
| appReloInd | boolean | O | 0..1 | Identifies whether an application can be relocated once a location of the application has been selected. |  |
| afAppId | string | O | 0..1 | Identifies an application.  (NOTE 1) (NOTE 3) |  |
| dnn | Dnn | O | 0..1 | Identifies a DNN |  |
| ethTrafficFilters | array(EthFlowDescription) | O | 1..N | Identifies Ethernet packet filters.  (NOTE 1) (NOTE 3) |  |
| snssai | Snssai | O | 0..1 | The identification of slice. |  |
| interGroupId | string | O | 0..1 | Identifies a group of users. (NOTE 2) (NOTE 3)(NOTE 5) |  |
| supi | Supi | O | 0..1 | Identifies a user. (NOTE 2) (NOTE 3) |  |
| trafficFilters | array(FlowInfo) | O | 1..N | Identifies IP packet filters.  (NOTE 1) (NOTE 3) |  |
| trafficRoutes | array(RouteToLocation) | O | 1..N | Identifies the N6 traffic routing requirement. |  |
| traffCorreInd | boolean | O | 0..1 | Indication of traffic correlation.  May only be included when "interGroupId" attribute is included and not set to "AnyUE".  It is used to indicate that for the group of UEs, the targeted PDU sessions should be correlated by a common DNAI.  Set to "true" if it should be correlated; otherwise set to "false". Default value is "false" if omitted. | TrafficCorrelation |
| validStartTime | DateTime | O | 0..1 | Identifies when the traffic routings start to be applicable. (NOTE 4) |  |
| validEndTime | DateTime | O | 0..1 | Identifies when the traffic routings are not applicable. (NOTE 4) |  |
| tempValidities | array(TemporalValidity) | O | 1..N | Indicates the time interval(s) during which the AF request is to be applied. (NOTE 4) | MultiTemporalCondition |
| nwAreaInfo | NetworkAreaInfo | O | 0..1 | Identifies a network area information that the request applies only to the traffic of UE(s) located in this specific zone. |  |
| upPathChgNotifUri | Uri | C | 0..1 | Contains the URI where the NEF receives the UP path change notification. It shall be included when the NEF requests the UP path change notification. |  |
| subscribedEvents | array(SubscribedEvent) | O | 1..N | Identifies the requirement to be notified of the event(s). |  |
| dnaiChgType | DnaiChangeType | O | 0..1 | Identifies a type of notification regarding UP path management event. |  |
| afAckInd | boolean | O | 0..1 | Identifies whether the AF acknowledgement of UP path event notification is expected.  Set to "true" if the AF acknowledgement is expected; otherwise set to "false".  Default value is "false" if omitted. | URLLC |
| addrPreserInd | boolean | O | 0..1 | Indicates whether UE IP address should be preserved.  This attribute shall set to "true" if preserved, otherwise, set to "false".  Default value is false if omitted. | URLLC |
| supportedFeatures | SupportedFeatures | C | 0..1 | Indicates the list of negotiated supported features.  This attribute shall be supplied by the UDR in the response to the PUT request when it was present in the PUT request and the UDR supports feature negotiation for Influence Data.  This attribute shall be supplied by the UDR in the response to the GET request when the GET request includes the "supp-feat" query parameter and the UDR supports feature negotiation for Influence Data. |  |
| NOTE 1: One of "afAppId", "trafficFilters" or "ethTrafficFilters" shall be included.  NOTE 2: Either "supi" or "interGroupId" shall be included.  NOTE 3: To indicate the deletion of a Traffic Individual Influence Data resource, only the appropriate combination of "supi" or "interGroupId", and "afAppId", "trafficFilters" or "ethTrafficFilters" that identify the resource shall be included. The rest of attributes shall be omitted.  NOTE 4: Properties "validStartTime" and "validEndTime" shall only be included for single temporal validity condition. Property "tempValidities" shall only be included for multiple temporal validity conditions when the feature MultiTemporalCondition is supported.  NOTE 5: If the Traffic Influence Data applies to any UE, then the "interGroupId" sets to "AnyUE". | | | | | |

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

6.4.2.3 Type TrafficInfluDataPatch

Table 6.4.2.3-1: Definition of type TrafficInfluDataPatch

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute name** | **Data type** | **P** | **Cardinality** | **Description** | **Applicability** |
| upPathChgNotifCorreId | string | O | 0..1 | Contains the Notification Correlation Id allocated by the NEF for the UP path change notification. |  |
| appReloInd | boolean | O | 0..1 | Identifies whether an application can be relocated once a location of the application has been selected. |  |
| dnn | Dnn | O | 0..1 | Identifies a DNN. |  |
| snssai | Snssai | O | 0..1 | The identification of slice |  |
| internalGroupId | string | O | 0..1 | Identifies a group of users. |  |
| ethTrafficFilters | array(EthFlowDescription) | O | 1..N | Identifies Ethernet packet filters. |  |
| supi | Supi | O | 0..1 | Identifies a user. |  |
| trafficFilters | array(FlowInfo) | O | 1..N | Identifies IP packet filters |  |
| trafficRoutes | array(RouteToLocation) | O | 1..N | Identifies the N6 traffic routing requirement. |  |
| traffCorreInd | boolean | O | 0..1 | Indication of traffic correlation.  May only be included when "internalGroupId" attribute is included and not set to "AnyUE".  It is used to indicate that for the group of UEs, the targeted PDU sessions should be correlated by a common DNAI. | TrafficCorrelation |
| validStartTime | DateTime | O | 0..1 | Identifies when the traffic routings start to be applicable. |  |
| validEndTime | DateTime | O | 0..1 | Identifies when the traffic routings are not applicable. |  |
| tempValidities | array(TemporalValidity) | O | 1..N | Indicates the time interval(s) during which the AF request is to be applied. | MultiTemporalCondition |
| nwAreaInfo | NetworkAreaInfo | O | 0..1 | Identifies a network area information that the request applies only to the traffic of UE(s) located in this specific zone. |  |
| upPathChgNotifUri | Uri | O | 0..1 | Contains the URI where the NEF receives the UP path change notification. |  |
| afAckInd | boolean | O | 0..1 | Identifies whether the AF acknowledgement of UP path event notification is expected. | URLLC |
| addrPreserInd | boolean | O | 0..1 | Indicates UE IP address should be preserved. | URLLC |

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

# A.3 Nudr\_DataRepository API for Application Data

For the purpose of referencing entities in the Open API file defined in this Annex, it shall be assumed that this Open API file is contained in a physical file named "TS29519\_Application\_Data.yaml".

openapi: 3.0.0

info:

version: '-'

title: Unified Data Repository Service API file for Application Data

description: |

The API version is defined in 3GPP TS 29.504

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externalDocs:

description: 3GPP TS 29.519 V16.2.0; 5G System; Usage of the Unified Data Repository Service for Policy Data, Application Data and Structured Data for Exposure.

url: 'http://www.3gpp.org/ftp/Specs/archive/29\_series/29.519/'

paths:

/application-data/pfds:

get:

summary: Retrieve PFDs for application identifier(s)

operationId: ReadPFDData

tags:

- PFD Data (Store)

parameters:

- name: appId

in: query

description: Contains the information of the application identifier(s) for the querying PFD Data resource. If none appId is included in the URI, it applies to all application identifier(s) for the querying PFD Data resource.

required: false

schema:

type: array

items:

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

minItems: 1

responses:

'200':

description: A representation of PFDs for request applications is returned.

content:

application/json:

schema:

type: array

items:

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

'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'

'414':

$ref: 'TS29571\_CommonData.yaml#/components/responses/414'

'429':

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

'500':

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

'503':

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

default:

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

/application-data/pfds/{appId}:

get:

summary: Retrieve the corresponding PFDs of the specified application identifier

operationId: ReadIndividualPFDData

tags:

- Individual PFD Data (Document)

parameters:

- name: appId

in: path

description: Indicate the application identifier for the request pfd(s). It shall apply the format of Data type ApplicationId.

required: true

schema:

type: string

responses:

'200':

description: A representation of PFDs for the request application identified by the application identifier is returned.

content:

application/json:

schema:

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

'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'

'503':

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

default:

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

delete:

summary: Delete the corresponding PFDs of the specified application identifier

operationId: DeleteIndividualPFDData

tags:

- Individual PFD Data (Document)

parameters:

- name: appId

in: path

description: Indicate the application identifier for the request pfd(s). It shall apply the format of Data type ApplicationId.

required: true

schema:

type: string

responses:

'204':

description: Successful case. The Individual PFD Data resource related to the application identifier was deleted.

'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'

'503':

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

default:

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

put:

summary: Create or update the corresponding PFDs for the specified application identifier

operationId: CreateOrReplaceIndividualPFDData

tags:

- Individual PFD Data (Document)

requestBody:

required: true

content:

application/json:

schema:

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

parameters:

- name: appId

in: path

description: Indicate the application identifier for the request pfd(s). It shall apply the format of Data type ApplicationId.

required: true

schema:

type: string

responses:

'201':

description: The creation of an Individual PFD Data resource related to the application-identifier is confirmed and a representation of that resource is returned.

content:

application/json:

schema:

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

headers:

Location:

description: 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/nudr-dr/{apiVersion}/application-data/pfds/{appId}'

required: true

schema:

type: string

'200':

description: Successful case. The upgrade of an Individual PFD Data resource related to the application identifier is confirmed and a representation of that resource is returned.

content:

application/json:

schema:

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

'204':

description: No content

'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'

'414':

$ref: 'TS29571\_CommonData.yaml#/components/responses/414'

'415':

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

'429':

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

'500':

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

'503':

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

default:

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

/application-data/influenceData:

get:

summary: Retrieve Traffic Influence Data

operationId: ReadInfluenceData

tags:

- Influence Data (Store)

parameters:

- name: influence-Ids

in: query

description: Each element identifies a service.

required: false

schema:

type: array

items:

type: string

minItems: 1

- name: dnns

in: query

description: Each element identifies a DNN.

required: false

schema:

type: array

items:

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

minItems: 1

- name: snssais

in: query

description: Each element identifies a slice.

required: false

content:

application/json:

schema:

type: array

items:

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

minItems: 1

- name: internal-Group-Ids

in: query

description: Each element identifies a group of users.

required: false

schema:

type: array

items:

type: string

minItems: 1

- name: supis

in: query

description: Each element identifies the user.

required: false

schema:

type: array

items:

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

minItems: 1

- name: supp-feat

in: query

description: Supported Features

schema:

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

responses:

'200':

description: The Traffic Influence Data stored in the UDR are returned.

content:

application/json:

schema:

type: array

items:

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

'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'

'414':

$ref: 'TS29571\_CommonData.yaml#/components/responses/414'

'429':

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

'500':

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

'503':

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

default:

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

/application-data/influenceData/{influenceId}:

put:

summary: Create or update an individual Influence Data resource

operationId: CreateOrReplaceIndividualInfluenceData

tags:

- Individual Influence Data (Document)

requestBody:

required: true

content:

application/json:

schema:

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

parameters:

- name: influenceId

in: path

description: The Identifier of an Individual Influence Data to be created or updated. It shall apply the format of Data type string.

required: true

schema:

type: string

responses:

'201':

description: The creation of an Individual Traffic Influence Data resource is confirmed and a representation of that resource is returned.

content:

application/json:

schema:

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

headers:

Location:

description: 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/nudr-dr/{apiVersion}/application-data/influenceData/{influenceId}'

required: true

schema:

type: string

'200':

description: The update of an Individual Traffic Influence Data resource is confirmed and a response body containing Traffic Influence Data shall be returned.

content:

application/json:

schema:

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

'204':

description: No content

'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'

'414':

$ref: 'TS29571\_CommonData.yaml#/components/responses/414'

'415':

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

'429':

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

'500':

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

'503':

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

default:

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

patch:

summary: Modify part of the properties of an individual Influence Data resource

operationId: UpdateIndividualInfluenceData

tags:

- Individual Influence Data (Document)

requestBody:

required: true

content:

application/json:

schema:

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

parameters:

- name: influenceId

in: path

description: The Identifier of an Individual Influence Data to be updated. It shall apply the format of Data type string.

required: true

schema:

type: string

responses:

'200':

description: The update of an Individual Traffic Influence Data resource is confirmed and a response body containing Traffic Influence Data shall be returned.

content:

application/json:

schema:

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

'204':

description: No content

'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'

'503':

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

default:

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

delete:

summary: Delete an individual Influence Data resource

operationId: DeleteIndividualInfluenceData

tags:

- Individual Influence Data (Document)

parameters:

- name: influenceId

in: path

description: The Identifier of an Individual Influence Data to be updated. It shall apply the format of Data type string.

required: true

schema:

type: string

responses:

'204':

description: The Individual Influence Data was deleted successfully.

'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'

'503':

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

default:

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

/application-data/influenceData/subs-to-notify:

post:

summary: Create a new Individual Influence Data Subscription resource

operationId: CreateIndividualInfluenceDataSubscription

tags:

- Influence Data Subscriptions (Collection)

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'201':

description: The subscription was created successfully.

content:

application/json:

schema:

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

headers:

Location:

description: 'Contains the URI of the newly created resource'

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'

'503':

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

default:

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

callbacks:

trafficInfluenceDataChangeNotification:

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

post:

requestBody:

required: true

content:

application/json:

schema:

type: array

items:

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

minItems: 1

responses:

'204':

description: No Content, Notification was successful

'400':

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

'403':

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

'404':

$ref: 'TS29122\_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'

'503':

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

default:

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

get:

summary: Read Influence Data Subscriptions

operationId: ReadInfluenceDataSubscriptions

tags:

- Influence Data Subscriptions (Collection)

parameters:

- name: dnn

in: query

description: Identifies a DNN.

required: false

schema:

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

- name: snssai

in: query

description: Identifies a slice.

required: false

content:

application/json:

schema:

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

- name: internal-Group-Id

in: query

description: Identifies a group of users.

required: false

schema:

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

- name: supi

in: query

description: Identifies a user.

required: false

schema:

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

responses:

'200':

description: The subscription information as request in the request URI query parameter(s) are returned.

content:

application/json:

schema:

type: array

items:

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

minItems: 0

'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'

'414':

$ref: 'TS29571\_CommonData.yaml#/components/responses/414'

'429':

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

'500':

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

'503':

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

default:

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

/application-data/influenceData/subs-to-notify/{subscriptionId}:

get:

summary: Get an existing individual Influence Data Subscription resource

operationId: ReadIndividualInfluenceDataSubscription

tags:

- Individual Influence Data Subscription (Document)

parameters:

- name: subscriptionId

in: path

description: String identifying a subscription to the Individual Influence Data Subscription

required: true

schema:

type: string

responses:

'200':

description: The subscription information is returned.

content:

application/json:

schema:

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

'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'

'414':

$ref: 'TS29571\_CommonData.yaml#/components/responses/414'

'429':

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

'500':

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

'503':

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

default:

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

put:

summary: Modify an existing individual Influence Data Subscription resource

operationId: ReplaceIndividualInfluenceDataSubscription

tags:

- Individual Influence Data Subscription (Document)

requestBody:

required: true

content:

application/json:

schema:

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

parameters:

- name: subscriptionId

in: path

description: String identifying a subscription to the Individual Influence Data Subscription

required: true

schema:

type: string

responses:

'200':

description: The subscription was updated successfully.

content:

application/json:

schema:

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

'204':

description: No content

'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'

'503':

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

default:

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

delete:

summary: Delete an individual Influence Data Subscription resource

operationId: DeleteIndividualInfluenceDataSubscription

tags:

- Individual Influence Data Subscription (Document)

parameters:

- name: subscriptionId

in: path

description: String identifying a subscription to the Individual Influence Data Subscription

required: true

schema:

type: string

responses:

'204':

description: The subscription was terminated successfully.

'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'

'503':

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

default:

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

/application-data/bdtPolicyData:

get:

summary: Retrieve applied BDT Policy Data

operationId: ReadBdtPolicyData

tags:

- BdtPolicy Data (Store)

parameters:

- name: bdt-policy-ids

in: query

description: Each element identifies a service.

required: false

schema:

type: array

items:

type: string

minItems: 1

- name: internal-group-ids

in: query

description: Each element identifies a group of users.

required: false

schema:

type: array

items:

type: string

minItems: 1

- name: supis

in: query

description: Each element identifies the user.

required: false

schema:

type: array

items:

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

minItems: 1

responses:

'200':

description: The applied BDT policy Data stored in the UDR are returned.

content:

application/json:

schema:

type: array

items:

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

'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'

'414':

$ref: 'TS29571\_CommonData.yaml#/components/responses/414'

'429':

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

'500':

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

'503':

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

default:

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

/application-data/bdtPolicyData/{bdtPolicyId}:

put:

summary: Create an individual applied BDT Policy Data resource

operationId: CreateIndividualAppliedBdtPolicyData

tags:

- Individual BDT Policy Data (Document)

requestBody:

required: true

content:

application/json:

schema:

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

parameters:

- name: bdtPolicyId

in: path

description: The Identifier of an Individual Applied BDT Policy Data to be created or updated. It shall apply the format of Data type string.

required: true

schema:

type: string

responses:

'201':

description: The creation of an Individual Applied BDT Policy Data resource is confirmed and a representation of that resource is returned.

content:

application/json:

schema:

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

headers:

Location:

description: 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/nudr-dr/{apiVersion}/application-data/bdtPolicyData/{bdtPolicyId}'

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'

'414':

$ref: 'TS29571\_CommonData.yaml#/components/responses/414'

'415':

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

'429':

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

'500':

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

'503':

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

default:

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

patch:

summary: Modify part of the properties of an individual Applied BDT Policy Data resource

operationId: UpdateIndividualAppliedBdtPolicyData

tags:

- Individual Applied BDT Policy Data (Document)

requestBody:

required: true

content:

application/json:

schema:

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

parameters:

- name: bdtPolicyId

in: path

description: The Identifier of an Individual Applied BDT Policy Data to be updated. It shall apply the format of Data type string.

required: true

schema:

type: string

responses:

'200':

description: The update of an Individual Applied BDT Policy Data resource is confirmed and a response body containing Applied BDT Policy Data shall be returned.

content:

application/json:

schema:

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

'204':

description: No content

'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'

'503':

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

default:

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

delete:

summary: Delete an individual Applied BDT Policy Data resource

operationId: DeleteIndividualAppliedBdtPolicyData

tags:

- Individual Applied BDT Policy Data (Document)

parameters:

- name: bdtPolicyId

in: path

description: The Identifier of an Individual Applied BDT Policy Data to be updated. It shall apply the format of Data type string.

required: true

schema:

type: string

responses:

'204':

description: The Individual Applied BDT Policy Data was deleted successfully.

'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'

'503':

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

default:

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

/application-data/iptvConfigData:

get:

summary: Retrieve IPTV configuration Data

operationId: ReadIPTVCongifurationData

tags:

- IPTV Configuration Data (Store)

parameters:

- name: config-ids

in: query

description: Each element identifies a configuration.

required: false

schema:

type: array

items:

type: string

minItems: 1

- name: dnns

in: query

description: Each element identifies a DNN.

required: false

schema:

type: array

items:

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

minItems: 1

- name: snssais

in: query

description: Each element identifies a slice.

required: false

content:

application/json:

schema:

type: array

items:

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

minItems: 1

- name: supis

in: query

description: Each element identifies the user.

required: false

schema:

type: array

items:

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

minItems: 1

- name: inter-group-ids

in: query

description: Each element identifies a group of users.

required: false

schema:

type: array

items:

type: string

minItems: 1

responses:

'200':

description: The IPTV configuration data stored in the UDR are returned.

content:

application/json:

schema:

type: array

items:

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

'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'

'414':

$ref: 'TS29571\_CommonData.yaml#/components/responses/414'

'429':

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

'500':

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

'503':

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

default:

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

/application-data/iptvConfigData/{configurationId}:

put:

summary: Create or update an individual IPTV configuration resource

operationId: CreateOrReplaceIndividualIPTVConfigurationData

tags:

- Individual IPTV Configuration Data (Document)

requestBody:

required: true

content:

application/json:

schema:

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

parameters:

- name: configurationId

in: path

description: The Identifier of an Individual IPTV Configuration Data to be created or updated. It shall apply the format of Data type string.

required: true

schema:

type: string

responses:

'201':

description: The creation of an Individual IPTV Configuration Data resource is confirmed and a representation of that resource is returned.

content:

application/json:

schema:

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

headers:

Location:

description: 'Contains the URI of the newly created resource'

required: true

schema:

type: string

'200':

description: The update of an Individual IPTV configuration resource.

content:

application/json:

schema:

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

'204':

description: No content

'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'

'414':

$ref: 'TS29571\_CommonData.yaml#/components/responses/414'

'415':

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

'429':

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

'500':

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

'503':

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

default:

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

patch:

summary: Partial update an individual IPTV configuration resource

operationId: PartialReplaceIndividualIPTVConfigurationData

tags:

- Individual IPTV Configuration Data

requestBody:

required: true

content:

application/json:

schema:

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

parameters:

- name: configurationId

in: path

description: The Identifier of an Individual IPTV Configuration Data to be updated. It shall apply the format of Data type string.

required: true

schema:

type: string

responses:

'200':

description: The update of an Individual IPTV configuration resource.

content:

application/json:

schema:

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

'204':

description: No content

'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'

'414':

$ref: 'TS29571\_CommonData.yaml#/components/responses/414'

'415':

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

'429':

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

'500':

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

'503':

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

default:

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

delete:

summary: Delete an individual IPTV configuration resource

operationId: DeleteIndividualIPTVConfigurationData

tags:

- Individual IPTV Configuration Data (Document)

parameters:

- name: configurationId

in: path

description: The Identifier of an Individual IPTV Configuration to be updated. It shall apply the format of Data type string.

required: true

schema:

type: string

responses:

'204':

description: The resource was deleted successfully.

'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'

'503':

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

default:

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

/application-data/subs-to-notify:

post:

summary: Create a subscription to receive notification of application data changes

operationId: CreateIndividualApplicationDataSubscription

tags:

- ApplicationDataSubscriptions (Collection)

requestBody:

content:

application/json:

schema:

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

responses:

'201':

description: Upon success, a response body containing a representation of each Individual subscription resource shall be returned.

content:

application/json:

schema:

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

headers:

Location:

description: 'Contains the URI of the newly created resource'

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'

'503':

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

default:

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

callbacks:

applicationDataChangeNotif:

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

post:

requestBody:

required: true

content:

application/json:

schema:

type: array

items:

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

minItems: 1

responses:

'204':

description: No Content, Notification was successful

'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'

'503':

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

default:

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

get:

summary: Read Application Data change Subscriptions

operationId: ReadApplicationDataChangeSubscriptions

tags:

- ApplicationDataSubscriptions (Collection)

parameters:

- name: dnn

in: query

description: Identifies a DNN.

required: false

schema:

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

- name: snssai

in: query

description: Identifies a slice.

required: false

content:

application/json:

schema:

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

- name: internal-group-id

in: query

description: Identifies a group of users.

required: false

schema:

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

- name: supi

in: query

description: Identifies a user.

required: false

schema:

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

- name: data-inds

in: query

required: false

schema:

type: array

items:

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

responses:

'200':

description: The subscription information as request in the request URI query parameter(s) are returned.

content:

application/json:

schema:

type: array

items:

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

minItems: 0

'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'

'414':

$ref: 'TS29571\_CommonData.yaml#/components/responses/414'

'429':

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

'500':

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

'503':

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

default:

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

/application-data/subs-to-notify/{subsId}:

parameters:

- name: subsId

in: path

required: true

schema:

type: string

put:

summary: Modify a subscription to receive notification of application data changes

operationId: ReplaceIndividualApplicationDataSubscription

tags:

- IndividualApplicationDataSubscription (Document)

requestBody:

content:

application/json:

schema:

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

responses:

'200':

description: The individual subscription resource was updated successfully.

content:

application/json:

schema:

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

'204':

description: The individual subscription resource was updated successfully and no additional content is to be sent in the response message.

'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'

'503':

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

default:

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

delete:

summary: Delete the individual Application Data subscription

operationId: DeleteIndividualApplicationDataSubscription

tags:

- IndividualApplicationDataSubscription (Document)

responses:

'204':

description: Upon success, an empty response body shall be returned.

'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'

'503':

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

default:

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

get:

summary: Get an existing individual Application Data Subscription resource

operationId: ReadIndividualApplicationDataSubscription

tags:

- IndividualApplicationDataSubscription (Document)

parameters:

- name: subsId

in: path

description: String identifying a subscription to the Individual Application Data Subscription

required: true

schema:

type: string

responses:

'200':

description: The subscription information is returned.

content:

application/json:

schema:

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

'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'

'414':

$ref: 'TS29571\_CommonData.yaml#/components/responses/414'

'429':

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

'500':

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

'503':

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

default:

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

components:

schemas:

TrafficInfluData:

type: object

properties:

upPathChgNotifCorreId:

type: string

description: Contains the Notification Correlation Id allocated by the NEF for the UP path change notification.

appReloInd:

type: boolean

description: Identifies whether an application can be relocated once a location of the application has been selected.

afAppId:

type: string

description: Identifies an application.

dnn:

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

ethTrafficFilters:

type: array

items:

$ref: 'TS29514\_Npcf\_PolicyAuthorization.yaml#/components/schemas/EthFlowDescription'

minItems: 1

description: Identifies Ethernet packet filters. Either "trafficFilters" or "ethTrafficFilters" shall be included if applicable.

snssai:

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

interGroupId:

type: string

description: Identifies a group of users.

supi:

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

trafficFilters:

type: array

items:

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

minItems: 1

description: Identifies IP packet filters. Either "trafficFilters" or "ethTrafficFilters" shall be included if applicable.

trafficRoutes:

type: array

items:

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

minItems: 1

description: Identifies the N6 traffic routing requirement.

traffCorreInd:

type: boolean

validStartTime:

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

validEndTime:

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

tempValidities:

type: array

items:

$ref: 'TS29514\_Npcf\_PolicyAuthorization.yaml#/components/schemas/TemporalValidity'

minItems: 1

description: Identifies the temporal validities for the N6 traffic routing requirement.

nwAreaInfo:

$ref: 'TS29554\_Npcf\_BDTPolicyControl.yaml#/components/schemas/NetworkAreaInfo'

upPathChgNotifUri:

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

subscribedEvents:

type: array

items:

$ref: 'TS29522\_TrafficInfluence.yaml#/components/schemas/SubscribedEvent'

minItems: 1

dnaiChgType:

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

afAckInd:

type: boolean

addrPreserInd:

type: boolean

supportedFeatures:

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

allOf:

- oneOf:

- required: [afAppId]

- required: [trafficFilters]

- required: [ethTrafficFilters]

- oneOf:

- required: [supi]

- required: [interGroupId]

TrafficInfluDataPatch:

type: object

properties:

upPathChgNotifCorreId:

type: string

description: Contains the Notification Correlation Id allocated by the NEF for the UP path change notification.

appReloInd:

type: boolean

description: Identifies whether an application can be relocated once a location of the application has been selected.

dnn:

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

ethTrafficFilters:

type: array

items:

$ref: 'TS29514\_Npcf\_PolicyAuthorization.yaml#/components/schemas/EthFlowDescription'

minItems: 1

description: Identifies Ethernet packet filters. Either "trafficFilters" or "ethTrafficFilters" shall be included if applicable.

snssai:

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

internalGroupId:

type: string

description: Identifies a group of users.

supi:

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

trafficFilters:

type: array

items:

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

minItems: 1

description: Identifies IP packet filters. Either "trafficFilters" or "ethTrafficFilters" shall be included if applicable.

trafficRoutes:

type: array

items:

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

minItems: 1

description: Identifies the N6 traffic routing requirement.

traffCorreInd:

type: boolean

validStartTime:

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

validEndTime:

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

tempValidities:

type: array

items:

$ref: 'TS29514\_Npcf\_PolicyAuthorization.yaml#/components/schemas/TemporalValidity'

minItems: 1

nullable: true

description: Identifies the temporal validities for the N6 traffic routing requirement.

nwAreaInfo:

$ref: 'TS29554\_Npcf\_BDTPolicyControl.yaml#/components/schemas/NetworkAreaInfo'

upPathChgNotifUri:

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

afAckInd:

type: boolean

addrPreserInd:

type: boolean

TrafficInfluSub:

type: object

properties:

dnns:

type: array

items:

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

minItems: 1

description: Each element identifies a DNN.

snssais:

type: array

items:

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

minItems: 1

description: Each element identifies a slice.

internalGroupIds:

type: array

items:

type: string

minItems: 1

description: Each element identifies a group of users.

supis:

type: array

items:

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

minItems: 1

description: Each element identifies the user.

notificationUri:

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

expiry:

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

supportedFeatures:

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

required:

- notificationUri

oneOf:

- required: [dnns]

- required: [snssais]

- required: [internalGroupIds]

- required: [supis]

PfdDataForAppExt:

allOf:

- $ref: 'TS29551\_Nnef\_PFDmanagement.yaml#/components/schemas/PfdDataForApp'

- type: object

properties:

suppFeat:

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

BdtPolicyData:

type: object

properties:

interGroupId:

type: string

description: Identifies a group of users.

supi:

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

bdtRefId:

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

dnn:

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

snssai:

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

required:

- bdtRefId

BdtPolicyDataPatch:

type: object

properties:

bdtRefId:

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

required:

- bdtRefId

IptvConfigData:

type: object

properties:

supi:

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

internalGroupId:

type: string

description: Identifies a group of users.

dnn:

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

snssai:

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

afAppId:

type: string

multiAccCtrls:

type: array

items:

$ref: 'TS29522\_IPTVConfiguration.yaml#/components/schemas/MulticastAccessControl'

required:

- dnn

- snssai

- afAppId

- multiAccCtrls

oneOf:

- required: [internalGroupId]

- required: [supi]

IptvConfigDataPatch:

type: object

properties:

multiAccCtrls:

type: object

additionalProperties:

$ref: 'TS29522\_IPTVConfiguration.yaml#/components/schemas/MulticastAccessControl'

minProperties: 1

ApplicationDataSubs:

description: Identifies a subscription to application data change notification.

type: object

properties:

notificationUri:

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

dataFilters:

type: array

items:

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

minItems: 1

expiry:

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

supportedFeatures:

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

required:

- notificationUri

ApplicationDataChangeNotif:

description: Contains changed application data for which notification was requested.

type: object

properties:

iptvConfigData:

type: string

dataFilters:

$ref: 'TS29551\_Nnef\_PFDmanagement.yaml#/components/schemas/PfdChangeNotification'

DataFilter:

description: Identifies a data filter.

type: object

properties:

dataInd:

type: array

items:

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

minItems: 1

dnns:

type: array

items:

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

minItems: 1

snssais:

type: array

items:

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

minItems: 1

internalGroupIds:

type: array

items:

type: string

minItems: 1

supis:

type: array

items:

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

minItems: 1

required:

- dataInd

oneOf:

- required: [dnns]

- required: [snssais]

- required: [internalGroupIds]

- required: [supis]

DataInd:

anyOf:

- type: string

enum:

- PFD

- IPTV

- BDT

- 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: >

Possible values are

- PFD

- IPTV

- BDT

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