**3GPP TSG-CT WG3 Meeting #116e C3-213220**

**E-Meeting, 19th – 28th May 2021 (Revision of C3-21xxxx)**

|  |
| --- |
| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **29.122** | **CR** | **0444** | **rev** |  | **Current version:** | **17.1.0** |  |
|  |
| *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:***  | Updates notification destination via PATCH operation in NIDD API |
|  |  |
| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** | CT3 |
|  |  |
| ***Work item code:*** | NBI17 |  | ***Date:*** | 2021-05-10 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** |  Rel-17 |
|  | *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 canbe 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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
|  |  |
| ***Reason for change:*** | Notification destination in type NiddConfiguration, while missing in type NiddConfigurationPatch in NIDD API. |
|  |  |
| ***Summary of change:*** | Adding notificationDestination attribute in type NiddConfigurationPatch to support updates of notification destination in PATCH method in NIDD API. |
|  |  |
| ***Consequences if not approved:*** | Can not support updates notification destination via PATCH operation in NIDD API. |
|  |  |
| ***Clauses affected:*** | 5.6.2.1.7, A.6 |
|  |  |
|  | **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 the OpenAPI file applicable to NIDD API. |
|  |  |
| ***This CR's revision history:*** |  |

**Additional discussion(if needed):**

**Proposed changes:**

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

##### 5.6.2.1.7 Type: NiddConfigurationPatch

This type represents an NIDD configuration used in PATCH.

Table 5.6.2.1.7-1: Definition of type NiddConfigurationPatch

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attribute name | Data type | Cardinality | Description | Applicability (NOTE) |
| duration | DateTimeRm | 0..1 | Identifies the absolute time at which the related NIDD Configuration request is considered to expire, as specified in subclause 5.13.2 of 3GPP TS 23.682 [2]. When set to null in the PATCH request, it indicates the configuration is requested to be valid forever by the SCS/AS. When omitted in the response, it indicates the configuration is set to valid forever by the SCEF. |  |
| reliableDataService | boolean | 0..1 | The reliable data service (as defined in clause 4.5.15.3 of 3GPP TS 23.682 [2]) to indicate if a reliable data service acknowledgment is enabled or not. |  |
| rdsPorts | array(RdsPort) | 0..N | Indicates the static port configuration that is used for reliable data transfer between specific applications using RDS (as defined in clause 5.2.4 and 5.2.5 of 3GPP TS 24.250 [31]). |  |
| pdnEstablishmentOption | PdnEstablishmentOptionsRm | 0..1 | Indicate what the SCEF should do if the UE has not established the PDN connection and MT non-IP data needs to be sent. (wait for the UE to establish the PDN connection, respond with an error cause, or send a device trigger; see step 2 of the MT NIDD Procedure in clause 5.13.3 of 3GPP TS 23.682 [2])The SCEF will use the value as the default preference from the SCS/AS when handling all MT non-IP packets associated with the NIDD connection. |  |
| notificationDestination | Link | 0..1 | An URI of a notification destination that the message shall be delivered to. |  |
| NOTE: Properties marked with a feature as defined in subclause 5.6.4 are applicable as described in subclause 5.2.7. If no feature are indicated, the related property applies for all the features. |

\*\*\* 2nd Change \*\*\*

## A.6 NIDD API

openapi: 3.0.0

info:

 title: 3gpp**-**nidd

 version: 1.2.0-alpha.2

 description: |

 API for non IP data delivery.

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externalDocs:

 description: 3GPP TS 29.122 V17.1.0 T8 reference point for Northbound APIs

 url: 'http://www.3gpp.org/ftp/Specs/archive/29\_series/29.122/'

security:

 - {}

 - oAuth2ClientCredentials: []

servers:

 - url: '{apiRoot}/3gpp**-**nidd/v1'

 variables:

 apiRoot:

 default: https://example.com

 description: apiRoot as defined in subclause 5.2.4 of 3GPP TS 29.122.

paths:

 /{scsAsId}/configurations:

 parameters:

 - name: scsAsId

 description: String identifying the SCS/AS.

 in: path

 required: true

 schema:

 type: string

 get:

 responses:

 '200':

 description: all NIDD configurations.

 content:

 application/json:

 schema:

 type: array

 items:

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

 minItems: 0

 description: individual NIDD configuration.

 '307':

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

 '308':

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

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '406':

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

 '429':

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

 '500':

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

 '503':

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

 default:

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

 post:

 requestBody:

 description: Contains the data to create a NIDD configuration.

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '201':

 description: NIDD configuration is successfully created.

 content:

 application/json:

 schema:

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

 headers:

 Location:

 description: 'Contains the URI of the newly created 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:

 niddNotifications:

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

 post:

 requestBody:

 description: Notification for NIDD configuration status, MO NIDD, MT NIDD delivery report.

 required: true

 content:

 application/json:

 schema:

 oneOf:

 - $ref: '#/components/schemas/NiddConfigurationStatusNotification'

 - $ref: '#/components/schemas/NiddUplinkDataNotification'

 - $ref: '#/components/schemas/NiddDownlinkDataDeliveryStatusNotification'

 - $ref: '#/components/schemas/GmdNiddDownlinkDataDeliveryNotification'

 - $ref: '#/components/schemas/ManagePortNotification'

 responses:

 '204':

 description: Expected response to a successful callback processing without a body

 '200':

 description: Expected response to a successful callback processing with a body

 content:

 application/json:

 schema:

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

 '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'

 /{scsAsId}/configurations/{configurationId}:

 parameters:

 - name: scsAsId

 description: String identifying the SCS/AS.

 in: path

 required: true

 schema:

 type: string

 - name: configurationId

 description: String identifying the individual NIDD configuration resource in the SCEF.

 in: path

 required: true

 schema:

 type: string

 get:

 responses:

 '200':

 description: The individual NIDD configuration is successfully retrieved.

 content:

 application/json:

 schema:

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

 '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'

 patch:

 requestBody:

 description: Contains information to be applied to the individual NIDD configuration.

 required: true

 content:

 application/merge-patch+json:

 schema:

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

 responses:

 '200':

 description: The Individual NIDD configuration is modified successfully and a representation of that resource is returned.

 content:

 application/json:

 schema:

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

 '204':

 description: The Individual NIDD configuration 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:

 responses:

 '204':

 description: The Individual NIDD configuration is 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'

 /{scsAsId}/configurations/{configurationId}/downlink-data-deliveries:

 parameters:

 - name: scsAsId

 description: String identifying the SCS/AS.

 in: path

 required: true

 schema:

 type: string

 - name: configurationId

 description: String identifying the individual NIDD configuration resource in the SCEF.

 in: path

 required: true

 schema:

 type: string

 get:

 responses:

 '200':

 description: all NIDD downlink data deliveries.

 content:

 application/json:

 schema:

 type: array

 items:

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

 minItems: 0

 description: individual NIDD downlink data delivery.

 '307':

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

 '308':

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

 '400':

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

 '401':

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

 '403':

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

 '404':

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

 '406':

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

 '429':

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

 '500':

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

 '503':

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

 default:

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

 post:

 requestBody:

 description: Contains the data to create a NIDD downlink data delivery.

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '200':

 description: NIDD downlink data delivery is successful.

 content:

 application/json:

 schema:

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

 '201':

 description: NIDD downlink data delivery is pending.

 content:

 application/json:

 schema:

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

 headers:

 Location:

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

 required: true

 schema:

 type: string

 '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':

 description: The NIDD downlink data delivery request was not successful.

 content:

 application/json:

 schema:

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

 '503':

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

 default:

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

 /{scsAsId}/configurations/{configurationId}/downlink-data-deliveries/{downlinkDataDeliveryId}:

 parameters:

 - name: scsAsId

 description: String identifying the SCS/AS.

 in: path

 required: true

 schema:

 type: string

 - name: configurationId

 description: String identifying the individual NIDD configuration resource in the SCEF.

 in: path

 required: true

 schema:

 type: string

 - name: downlinkDataDeliveryId

 description: String identifying the individual NIDD downlink data delivery in the SCEF.

 in: path

 required: true

 schema:

 type: string

 get:

 responses:

 '200':

 description: The individual NIDD downlink data delivery is successfully retrieved.

 content:

 application/json:

 schema:

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

 '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:

 requestBody:

 description: Contains information to be applied to the individual NIDD downlink data delivery.

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '200':

 description: The pending NIDD downlink data is replaced sucessfully but delivery is pending.

 content:

 application/json:

 schema:

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

 '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'

 '409':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/409'

 '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':

 description: The NIDD downlink data replacement request was not successful.

 content:

 application/json:

 schema:

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

 '503':

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

 default:

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

 delete:

 responses:

 '204':

 description: The pending NIDD downlink data is 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'

 '409':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/409'

 '429':

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

 '500':

 description: The NIDD downlink data cancellation request was not successful.

 content:

 application/json:

 schema:

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

 '503':

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

 default:

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

 /{scsAsId}/configurations/{configurationId}/rds-ports:

 parameters:

 - name: scsAsId

 description: String identifying the SCS/AS.

 in: path

 required: true

 schema:

 type: string

 - name: configurationId

 description: String identifying the individual NIDD configuration resource in the SCEF.

 in: path

 required: true

 schema:

 type: string

 get:

 responses:

 '200':

 description: all ManagePort configurations.

 content:

 application/json:

 schema:

 type: array

 items:

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

 minItems: 0

 description: individual ManagePort configuration.

 '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'

 /{scsAsId}/configurations/{configurationId}/rds-ports/{portId}:

 parameters:

 - name: scsAsId

 description: String identifying the SCS/AS.

 in: path

 required: true

 schema:

 type: string

 - name: configurationId

 description: String identifying the individual NIDD configuration resource in the SCEF.

 in: path

 required: true

 schema:

 type: string

 - name: portId

 description: The UE port number.

 in: path

 required: true

 schema:

 type: string

 pattern: '^(ue([0-9]|(1[0-5]))-ef([0-9]|(1[0-5])))$'

 get:

 responses:

 '200':

 description: The individual ManagePort configuration is successfully retrieved.

 content:

 application/json:

 schema:

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

 '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:

 requestBody:

 description: Contains information to be applied to the individual ManagePort configuration.

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '201':

 description: The individual ManagePort configuration is created.

 content:

 application/json:

 schema:

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

 headers:

 Location:

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

 required: true

 schema:

 type: string

 '202':

 description: The request is accepted and under processing.

 '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'

 '409':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/409'

 '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':

 description: The request was not successful.

 content:

 application/problem+json:

 schema:

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

 '503':

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

 default:

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

 delete:

 responses:

 '202':

 description: The request is accepted and under processing.

 '204':

 description: The individual ManagePort configuration is 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'

 '409':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/409'

 '429':

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

 '500':

 description: The request was not successful.

 content:

 application/problem+json:

 schema:

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

 '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:

 NiddConfiguration:

 type: object

 properties:

 self:

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

 supportedFeatures:

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

 mtcProviderId:

 type: string

 description: Identifies the MTC Service Provider and/or MTC Application.

 externalId:

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

 msisdn:

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

 externalGroupId:

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

 duration:

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

 reliableDataService:

 type: boolean

 description: The reliable data service (as defined in subclause 4.5.15.3 of 3GPP TS 23.682) to indicate if a reliable data service acknowledgment is enabled or not.

 rdsPorts:

 type: array

 items:

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

 minItems: 1

 description: Indicates the static port configuration that is used for reliable data transfer between specific applications using RDS (as defined in subclause 5.2.4 and 5.2.5 of 3GPP TS 24.250).

 pdnEstablishmentOption:

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

 notificationDestination:

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

 requestTestNotification:

 type: boolean

 description: Set to true by the SCS/AS to request the SCEF to send a test notification as defined in subclause 5.2.5.3. Set to false or omitted otherwise.

 websockNotifConfig:

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

 maximumPacketSize:

 type: integer

 minimum: 1

 description: The Maximum Packet Size is the maximum NIDD packet size that was transferred to the UE by the SCEF in the PCO, see subclause 4.5.14.1 of 3GPP TS 23.682. If no maximum packet size was provided to the UE by the SCEF, the SCEF sends a default configured max packet size to SCS/AS. Unit bit.

 readOnly: true

 niddDownlinkDataTransfers:

 type: array

 items:

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

 minItems: 1

 description: The downlink data deliveries that needed to be executed by the SCEF. The cardinality of the property shall be 0..1 in the request and 0..N in the response (i.e. response may contain multiple buffered MT NIDD).

 status:

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

 required:

 - notificationDestination

 oneOf:

 - required: [externalId]

 - required: [msisdn]

 - required: [externalGroupId]

 NiddDownlinkDataTransfer:

 type: object

 properties:

 externalId:

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

 externalGroupId:

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

 msisdn:

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

 self:

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

 data:

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

 reliableDataService:

 type: boolean

 description: The reliable data service (as defined in subclause 4.5.15.3 of 3GPP TS 23.682) to indicate if a reliable data service acknowledgment is enabled or not.

 rdsPort:

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

 maximumLatency:

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

 priority:

 type: integer

 description: It is used to indicate the priority of the non-IP data packet relative to other non-IP data packets.

 pdnEstablishmentOption:

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

 deliveryStatus:

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

 requestedRetransmissionTime:

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

 required:

 - data

 oneOf:

 - required: [externalId]

 - required: [msisdn]

 - required: [externalGroupId]

 NiddUplinkDataNotification:

 type: object

 properties:

 niddConfiguration:

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

 externalId:

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

 msisdn:

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

 data:

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

 reliableDataService:

 type: boolean

 description: Indicates whether the reliable data service is enabled.

 rdsPort:

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

 required:

 - niddConfiguration

 - data

 oneOf:

 - required: [externalId]

 - required: [msisdn]

 NiddDownlinkDataDeliveryStatusNotification:

 type: object

 properties:

 niddDownlinkDataTransfer:

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

 deliveryStatus:

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

 requestedRetransmissionTime:

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

 required:

 - niddDownlinkDataTransfer

 - deliveryStatus

 NiddConfigurationStatusNotification:

 type: object

 properties:

 niddConfiguration:

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

 externalId:

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

 msisdn:

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

 status:

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

 rdsCapIndication:

 type: boolean

 description: It indicates whether the network capability for the reliable data service is enabled or not.

 rdsPort:

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

 required:

 - niddConfiguration

 - status

 oneOf:

 - required: [externalId]

 - required: [msisdn]

 GmdNiddDownlinkDataDeliveryNotification:

 type: object

 properties:

 niddDownlinkDataTransfer:

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

 gmdResults:

 type: array

 items:

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

 minItems: 1

 description: Indicates the group message delivery result.

 required:

 - niddDownlinkDataTransfer

 - gmdResults

 RdsPort:

 type: object

 properties:

 portUE:

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

 portSCEF:

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

 required:

 - portUE

 - portSCEF

 GmdResult:

 type: object

 properties:

 externalId:

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

 msisdn:

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

 deliveryStatus:

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

 requestedRetransmissionTime:

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

 required:

 - deliveryStatus

 oneOf:

 - required: [externalId]

 - required: [msisdn]

 NiddDownlinkDataDeliveryFailure:

 type: object

 properties:

 problemDetail:

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

 requestedRetransmissionTime:

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

 required:

 - problemDetail

 ManagePort:

 type: object

 properties:

 self:

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

 appId:

 type: string

 description: Identifies the application.

 manageEntity:

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

 skipUeInquiry:

 type: boolean

 description: Indicate whether to skip UE inquiry.

 supportedFormats:

 type: array

 items:

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

 minItems: 1

 description: Indicates the serialization format(s) that are supported by the SCS/AS on the associated RDS port.

 configuredFormat:

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

 required:

 - appId

 ManagePortNotification:

 type: object

 properties:

 niddConfiguration:

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

 externalId:

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

 msisdn:

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

 managedPorts:

 type: array

 items:

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

 minItems: 1

 description: Indicates the reserved RDS port configuration information.

 required:

 - niddConfiguration

 oneOf:

 - required: [externalId]

 - required: [msisdn]

 RdsDownlinkDataDeliveryFailure:

 allOf:

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

 - type: object

 properties:

 requestedRetransmissionTime:

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

 supportedUeFormats:

 type: array

 items:

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

 minItems: 1

 description: Indicates the serialization format(s) that are supported by the UE on the associated RDS port.

 PdnEstablishmentOptions:

 anyOf:

 - type: string

 enum:

 - WAIT\_FOR\_UE

 - INDICATE\_ERROR

 - SEND\_TRIGGER

 - 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

 - WAIT\_FOR\_UE: wait for the UE to establish the PDN connection

 - INDICATE\_ERROR: respond with an error cause

 - SEND\_TRIGGER: send a device trigger

 PdnEstablishmentOptionsRm:

 anyOf:

 - $ref: '#/components/schemas/PdnEstablishmentOptions'

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

 DeliveryStatus:

 anyOf:

 - type: string

 enum:

 - SUCCESS

 - SUCCESS\_NEXT\_HOP\_ACKNOWLEDGED

 - SUCCESS\_NEXT\_HOP\_UNACKNOWLEDGED

 - SUCCESS\_ACKNOWLEDGED

 - SUCCESS\_UNACKNOWLEDGED

 - TRIGGERED

 - BUFFERING

 - BUFFERING\_TEMPORARILY\_NOT\_REACHABLE

 - SENDING

 - FAILURE

 - FAILURE\_RDS\_DISABLED

 - FAILURE\_NEXT\_HOP

 - FAILURE\_TIMEOUT

 - FAILURE\_TEMPORARILY\_NOT\_REACHABLE

 - 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

 - SUCCESS: Success but details not provided

 - SUCCESS\_NEXT\_HOP\_ACKNOWLEDGED: Successful delivery to the next hop with acknowledgment.

 - SUCCESS\_NEXT\_HOP\_UNACKNOWLEDGED: Successful delivery to the next hop without acknowledgment

 - SUCCESS\_ACKNOWLEDGED: Reliable delivery was acknowledged by the UE

 - SUCCESS\_UNACKNOWLEDGED: Reliable delivery was not acknowledged by the UE

 - TRIGGERED: The SCEF triggered the device and is buffering the data.

 - BUFFERING: The SCEF is buffering the data due to no PDN connection established.

 - BUFFERING\_TEMPORARILY\_NOT\_REACHABLE: The SCEF has been informed that the UE is temporarily not reachable but is buffering the data

 - SENDING: The SCEF has forwarded the data, but they may be stored elsewhere

 - FAILURE: Delivery failure but details not provided

 - FAILURE\_RDS\_DISABLED: RDS was disabled

 - FAILURE\_NEXT\_HOP: Unsuccessful delivery to the next hop.

 - FAILURE\_TIMEOUT: Unsuccessful delivery due to timeout.

 - FAILURE\_TEMPORARILY\_NOT\_REACHABLE: The SCEF has been informed that the UE is temporarily not reachable without buffering the data.

 readOnly: true

 NiddStatus:

 anyOf:

 - type: string

 enum:

 - ACTIVE

 - TERMINATED\_UE\_NOT\_AUTHORIZED

 - TERMINATED

 - RDS\_PORT\_UNKNOWN

 - 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

 - ACTIVE: The NIDD configuration is active.

 - TERMINATED\_UE\_NOT\_AUTHORIZED: The NIDD configuration was terminated because the UE´s authorisation was revoked.

 - TERMINATED: The NIDD configuration was terminated.

 - RDS\_PORT\_UNKNOWN: The RDS port is unknown.

 readOnly: true

 ManageEntity:

 anyOf:

 - type: string

 enum:

 - UE

 - AS

 - 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

 - UE: Representing the UE.

 - AS: Representing the Application Server.

 readOnly: true

 SerializationFormat:

 anyOf:

 - type: string

 enum:

 - CBOR

 - JSON

 - XML

 - 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

 - CBOR: The CBOR Serialzition format

 - JSON: The JSON Serialzition format

 - XML: The XML Serialzition format

 NiddConfigurationPatch:

 type: object

 properties:

 duration:

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

 reliableDataService:

 type: boolean

 description: The reliable data service (as defined in subclause 4.5.15.3 of 3GPP TS 23.682) to indicate if a reliable data service acknowledgment is enabled or not.

 nullable: true

 rdsPorts:

 type: array

 items:

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

 minItems: 1

 description: Indicates the static port configuration that is used for reliable data transfer between specific applications using RDS (as defined in subclause 5.2.4 and 5.2.5 of 3GPP TS 24.250).

 pdnEstablishmentOption:

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

 notificationDestination:

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

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