



# NIDD

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## OpenAPI

OpenAPI Version: 3.0.0

## Info

**Title:** 3gpp-nidd  
**Version:** "1.0.0"

## Servers

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

**Variables:**

**API Root:**

**Default:** https://example.com

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

## Security

- {}
- oAuth2ClientCredentials: []

# Paths

## `{scsAsId}/configurations`

### Parameters:

- **Name:** `scsAsId`  
**Description:** String identifying the SCS/AS.  
**In:** path  
**Required/Optional:** true  
**Schema:**  
**Type:** string

### get:

#### Responses:

- '200':  
**Description:** all NIDD configurations.  
**Content:**  
**Application/JSON:**  
**Schema:**  
**Type:** array  
**Items:**  
**Reference:** '#/components/schemas/NiddConfiguration'  
**Min Items:** 0  
**Description:** individual NIDD configuration.
- '400':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/400'
- '401':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/401'
- '403':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/403'
- '404':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/404'
- '406':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/406'
- '429':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/429'
- '500':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/500'
- '503':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/503'
- Default:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/default'

### Method: Post

#### Request Body:

- Description:** Contains the data to create a NIDD configuration.
- Required/Optional:** true
- Content:**

```

    Application/JSON:
      Schema:
        Reference: '#/components/schemas/NiddConfiguration'

Responses:
  '201':
    Description: NIDD configuration is successfully created.
    Content:
      Application/JSON:
        Schema:
          Reference: '#/components/schemas/NiddConfiguration'
      Headers:
        Location:
          Description: 'Contains the URI of the newly created resource'
          Required/Optional: true
          Schema:
            Type: string
  '400':
    Reference: 'TS29122_CommonData.yaml#/components/responses/400'
  '401':
    Reference: 'TS29122_CommonData.yaml#/components/responses/401'
  '403':
    Reference: 'TS29122_CommonData.yaml#/components/responses/403'
  '404':
    Reference: 'TS29122_CommonData.yaml#/components/responses/404'
  '411':
    Reference: 'TS29122_CommonData.yaml#/components/responses/411'
  '413':
    Reference: 'TS29122_CommonData.yaml#/components/responses/413'
  '415':
    Reference: 'TS29122_CommonData.yaml#/components/responses/415'
  '429':
    Reference: 'TS29122_CommonData.yaml#/components/responses/429'
  '500':
    Reference: 'TS29122_CommonData.yaml#/components/responses/500'
  '503':
    Reference: 'TS29122_CommonData.yaml#/components/responses/503'
  Default:
    Reference: 'TS29122_CommonData.yaml#/components/responses/default'
Callbacks:
  niddNotifications:
    '{$request.body#/notificationDestination}':
      Method: Post
      Request Body:
        Description: Notification for NIDD configuration status, MO NIDD, MT NIDD
        delivery report.
      Content:
        Application/JSON:
          Schema:
            oneOf:
              - $ref: '#/components/schemas/NiddConfigurationStatusNotification'
              - $ref: '#/components/schemas/NiddUplinkDataNotification'

```

```
{/scsAsId}/configurations/{configurationId}
```

```

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

  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:
            Reference:
'TS29122_CommonData.yaml#/components/schemas/Acknowledgement'
    '400':
      Reference: 'TS29122_CommonData.yaml#/components/responses/400'
    '401':
      Reference: 'TS29122_CommonData.yaml#/components/responses/401'
    '403':
      Reference: 'TS29122_CommonData.yaml#/components/responses/403'
    '404':
      Reference: 'TS29122_CommonData.yaml#/components/responses/404'
    '411':
      Reference: 'TS29122_CommonData.yaml#/components/responses/411'
    '413':
      Reference: 'TS29122_CommonData.yaml#/components/responses/413'
    '415':
      Reference: 'TS29122_CommonData.yaml#/components/responses/415'
    '429':
      Reference: 'TS29122_CommonData.yaml#/components/responses/429'
    '500':
      Reference: 'TS29122_CommonData.yaml#/components/responses/500'
    '503':
      Reference: 'TS29122_CommonData.yaml#/components/responses/503'
  Default:
    Reference: 'TS29122_CommonData.yaml#/components/responses/default'

```

## {/scsAsId}/configurations/{configurationId}

### Parameters:

- Name: scsAsId  
Description: String identifying the SCS/AS.  
In: path  
Required/Optional: true  
Schema:  
Type: string
- Name: configurationId

**Description:** String identifying the individual NIDD configuration resource in the SCEF.

**In:** path

**Required/Optional:** true

**Schema:**

**Type:** string

**get:**

**Responses:**

'200':

**Description:** The individual NIDD configuration is successfully retrieved.

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '#/components/schemas/NiddConfiguration'

'400':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/400'

'401':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/401'

'403':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/403'

'404':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/404'

'406':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/406'

'429':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/429'

'500':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/500'

'503':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/503'

**Default:**

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/default'

**patch:**

**Request Body:**

**Description:** Contains information to be applied to the individual NIDD configuration.

**Required/Optional:** true

**Content:**

**application/merge-patch+json:**

**Schema:**

**Reference:** '#/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:**

**Reference:** '#/components/schemas/NiddConfiguration'

'204':

**Description:** The Individual NIDD configuration is modified successfully.

'400':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/400'

'401':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/401'

'403':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/403'

'404':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/404'

'411':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/411'

'413':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/413'

'415':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/415'

'429':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/429'

'500':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/500'

'503':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/503'

**Default:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/default'

**delete:**

**Responses:**

'204':  
**Description:** The Individual NIDD configuration is deleted.

'400':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/400'

'401':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/401'

'403':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/403'

'404':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/404'

'429':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/429'

'500':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/500'

'503':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/503'

**Default:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/default'

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

- **Name:** scsAsId

**Description:** String identifying the SCS/AS.  
**In:** path  
**Required/Optional:** true  
**Schema:**  
**Type:** string

- **Name:** configurationId  
**Description:** String identifying the individual NIDD configuration resource in the SCEF.  
**In:** path  
**Required/Optional:** true  
**Schema:**  
**Type:** string

**get:**

**Responses:**

'200':  
**Description:** all NIDD downlink data deliveries.  
**Content:**  
**Application/JSON:**  
**Schema:**  
**Type:** array  
**Items:**  
**Reference:** '#/components/schemas/NiddDownlinkDataTransfer'  
**Min Items:** 0  
**Description:** individual NIDD downlink data delivery.

'400':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/400'

'401':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/401'

'403':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/403'

'404':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/404'

'406':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/406'

'429':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/429'

'500':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/500'

'503':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/503'

**Default:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/default'

**Method:** Post

**Request Body:**  
**Description:** Contains the data to create a NIDD downlink data delivery.  
**Required/Optional:** true  
**Content:**  
**Application/JSON:**  
**Schema:**  
**Reference:** '#/components/schemas/NiddDownlinkDataTransfer'

**Responses:**

```

'200':
  Description: NIDD downlink data delivery is successful.
  Content:
    Application/JSON:
      Schema:
        Reference: '#/components/schemas/NiddDownlinkDataTransfer'
'201':
  Description: NIDD downlink data delivery is pending.
  Content:
    Application/JSON:
      Schema:
        Reference: '#/components/schemas/NiddDownlinkDataTransfer'
  Headers:
    Location:
      Description: 'Contains the URI of the newly created resource'
      Required/Optional: true
      Schema:
        Type: string
'400':
  Reference: 'TS29122_CommonData.yaml#/components/responses/400'
'401':
  Reference: 'TS29122_CommonData.yaml#/components/responses/401'
'403':
  Reference: 'TS29122_CommonData.yaml#/components/responses/403'
'404':
  Reference: 'TS29122_CommonData.yaml#/components/responses/404'
'411':
  Reference: 'TS29122_CommonData.yaml#/components/responses/411'
'413':
  Reference: 'TS29122_CommonData.yaml#/components/responses/413'
'415':
  Reference: 'TS29122_CommonData.yaml#/components/responses/415'
'429':
  Reference: 'TS29122_CommonData.yaml#/components/responses/429'
'500':
  Description: The NIDD downlink data delivery request was not successful.
  Content:
    Application/JSON:
      Schema:
        Reference: '#/components/schemas/NiddDownlinkDataDeliveryFailure'
'503':
  Reference: 'TS29122_CommonData.yaml#/components/responses/503'
Default:
  Reference: 'TS29122_CommonData.yaml#/components/responses/default'

```

## /{scsAsId}/configurations/{configurationId}/downlink-data-deliveries/{downlinkData

**Parameters:**



- **Name:** scsAsId  
**Description:** String identifying the SCS/AS.  
**In:** path  
**Required/Optional:** true  
**Schema:**  
**Type:** string

- **Name:** configurationId  
**Description:** String identifying the individual NIDD configuration resource in the SCEF.  
**In:** path  
**Required/Optional:** true  
**Schema:**  
**Type:** string

- **Name:** downlinkDataDeliveryId  
**Description:** String identifying the individual NIDD downlink data delivery in the SCEF.  
**In:** path  
**Required/Optional:** true  
**Schema:**  
**Type:** string

**get:**

**Responses:****'200':****Description:** The individual NIDD downlink data delivery is successfully retrieved.**Content:****Application/JSON:****Schema:****Reference:** '#/components/schemas/NiddDownlinkDataTransfer'**'400':****Reference:** 'TS29122\_CommonData.yaml#/components/responses/400'**'401':****Reference:** 'TS29122\_CommonData.yaml#/components/responses/401'**'403':****Reference:** 'TS29122\_CommonData.yaml#/components/responses/403'**'404':****Reference:** 'TS29122\_CommonData.yaml#/components/responses/404'**'406':****Reference:** 'TS29122\_CommonData.yaml#/components/responses/406'**'429':****Reference:** 'TS29122\_CommonData.yaml#/components/responses/429'**'500':****Reference:** 'TS29122\_CommonData.yaml#/components/responses/500'**'503':****Reference:** 'TS29122\_CommonData.yaml#/components/responses/503'**Default:****Reference:** 'TS29122\_CommonData.yaml#/components/responses/default'**put:****Request Body:****Description:** Contains information to be applied to the individual NIDD downlink data delivery.

**Required/Optional:** true

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '#/components/schemas/NiddDownlinkDataTransfer'

**Responses:**

'200':

**Description:** The pending NIDD downlink data is replaced successfully but delivery is pending.

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '#/components/schemas/NiddDownlinkDataTransfer'

'400':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/400'

'401':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/401'

'403':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/403'

'404':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/404'

'409':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/409'

'411':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/411'

'413':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/413'

'415':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/415'

'429':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/429'

'500':

**Description:** The NIDD downlink data replacement request was not successful.

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '#/components/schemas/NiddDownlinkDataDeliveryFailure'

'503':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/503'

**Default:**

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/default'

**delete:**

**Responses:**

'204':

**Description:** The pending NIDD downlink data is deleted.

'400':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/400'

'401':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/401'

'403':

```

    Reference: 'TS29122_CommonData.yaml#/components/responses/403'
  '404':
    Reference: 'TS29122_CommonData.yaml#/components/responses/404'
  '409':
    Reference: 'TS29122_CommonData.yaml#/components/responses/409'
  '429':
    Reference: 'TS29122_CommonData.yaml#/components/responses/429'
  '500':
    Description: The NIDD downlink data cancellation request was not successful.
    Content:
      Application/JSON:
        Schema:
          Reference: '#/components/schemas/NiddDownlinkDataDeliveryFailure'
  '503':
    Reference: 'TS29122_CommonData.yaml#/components/responses/503'
Default:
  Reference: 'TS29122_CommonData.yaml#/components/responses/default'

```

## Components

```

securitySchemes:
  oAuth2ClientCredentials:
    Type: oauth2
    Flows:
      clientCredentials:
        tokenUrl: '{tokenUrl}'
        scopes: {}

schemas:
  NiddConfiguration:
    Type: object
    Properties:
      self:
        Reference: 'TS29122_CommonData.yaml#/components/schemas/Link'
      supportedFeatures:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
      externalId:
        Reference: 'TS29122_CommonData.yaml#/components/schemas/ExternalId'
      msisdn:
        Reference: 'TS29122_CommonData.yaml#/components/schemas/Msisdn'
      externalGroupId:
        Reference: 'TS29122_CommonData.yaml#/components/schemas/ExternalGroupId'
      duration:
        Reference: '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:
      Reference: '#/components/schemas/RdsPort'
    minItems: 1
    Description: Indicates the 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:
      Reference: '#/components/schemas/PdnEstablishmentOptions'
    notificationDestination:
      Reference: '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.
    websocketNotifConfig:
      Reference: 'TS29122_CommonData.yaml#/components/schemas/WebsocketNotifConfig'
    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:
        Reference: '#/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:
        Reference: '#/components/schemas/NiddStatus'
    Required:
      - notificationDestination
    oneOf:
      - required: [externalId]
      - required: [msisdn]
      - required: [externalGroupId]
NiddDownlinkDataTransfer:
  Type: object
  Properties:
    externalId:
      Reference: 'TS29122_CommonData.yaml#/components/schemas/ExternalId'
    externalGroupId:
      Reference: 'TS29122_CommonData.yaml#/components/schemas/ExternalGroupId'
    msisdn:
      Reference: 'TS29122_CommonData.yaml#/components/schemas/Msisdn'
    self:
      Reference: 'TS29122_CommonData.yaml#/components/schemas/Link'
    data:
      Reference: '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:**  
**Reference:** '#/components/schemas/RdsPort'

**maximumLatency:**  
**Reference:** '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:**  
**Reference:** '#/components/schemas/PdnEstablishmentOptions'

**deliveryStatus:**  
**Reference:** '#/components/schemas/DeliveryStatus'

**requestedRetransmissionTime:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/schemas/DateTime'

**Required:**  
- data

**oneOf:**  
- required: [externalId]  
- required: [msisdn]  
- required: [externalGroupId]

**NiddUplinkDataNotification:**  
**Type:** object  
**Properties:**  
**niddConfiguration:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/schemas/Link'

**externalId:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/schemas/ExternalId'

**msisdn:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/schemas/Msisdn'

**data:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/schemas/Bytes'

**reliableDataService:**  
**Type:** boolean  
**Description:** Indicates whether the reliable data service is enabled.

**rdsPort:**  
**Reference:** '#/components/schemas/RdsPort'

**Required:**  
- niddConfiguration  
- data

**oneOf:**  
- required: [externalId]  
- required: [msisdn]

**NiddDownlinkDataDeliveryStatusNotification:**  
**Type:** object  
**Properties:**  
**niddDownlinkDataTransfer:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/schemas/Link'

**deliveryStatus:**  
**Reference:** '#/components/schemas/DeliveryStatus'

```

    requestedRetransmissionTime:
      Reference: 'TS29122_CommonData.yaml#/components/schemas/DateTime'
    Required:
      - niddDownlinkDataTransfer
      - deliveryStatus
  NiddConfigurationStatusNotification:
    Type: object
    Properties:
      niddConfiguration:
        Reference: 'TS29122_CommonData.yaml#/components/schemas/Link'
      externalId:
        Reference: 'TS29122_CommonData.yaml#/components/schemas/ExternalId'
      msisdn:
        Reference: 'TS29122_CommonData.yaml#/components/schemas/Msisdn'
      status:
        Reference: '#/components/schemas/NiddStatus'
      rdsCapIndication:
        Type: boolean
        Description: It indicates whether the network capability for the reliable data
service is enabled or not.
    Required:
      - niddConfiguration
      - status
    oneOf:
      - required: [externalId]
      - required: [msisdn]
  GmdNiddDownlinkDataDeliveryNotification:
    Type: object
    Properties:
      niddDownlinkDataTransfer:
        Reference: 'TS29122_CommonData.yaml#/components/schemas/Link'
      gmdResults:
        Type: array
        Items:
          Reference: '#/components/schemas/GmdResult'
        minItems: 1
        Description: Indicates the group message delivery result.
    Required:
      - niddDownlinkDataTransfer
      - gmdResults
  RdsPort:
    Type: object
    Properties:
      portUE:
        Reference: 'TS29122_CommonData.yaml#/components/schemas/Port'
      portSCEF:
        Reference: 'TS29122_CommonData.yaml#/components/schemas/Port'
    Required:
      - portUE
      - portSCEF
  GmdResult:
    Type: object
    Properties:
      externalId:

```

**Reference:** 'TS29122\_CommonData.yaml#/components/schemas/ExternalId'  
**msisdn:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/schemas/Msisdn'  
**deliveryStatus:**  
**Reference:** '#/components/schemas/DeliveryStatus'  
**requestedRetransmissionTime:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/schemas/DateTime'  
**Required:**  
- deliveryStatus  
**oneOf:**  
- required: [externalId]  
- required: [msisdn]

**NiddDownlinkDataDeliveryFailure:**  
**Type:** object  
**Properties:**  
**problemDetail:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/schemas/ProblemDetails'  
**requestedRetransmissionTime:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/schemas/DateTime'  
**Required:**  
- problemDetail

**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:**  
- 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  
**nullable:** true

**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
- 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.

**readOnly:** true

**NiddStatus:****anyOf:**

- type: string
- enum:**
  - ACTIVE
  - TERMINATED\_UE\_NOT\_AUTHORIZED
  - TERMINATED
- 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 UEs authorisation was revoked
  - TERMINATED: The NIDD configuration was terminated.

**readOnly:** true

**NiddConfigurationPatch:**



**Type:** object

**Properties:**

- duration:**
  - Reference:** '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:**
    - Reference:** '#/components/schemas/RdsPort'
  - minItems:** 1
  - Description:** Indicates the 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:**
  - Reference:** '#/components/schemas/PdnEstablishmentOptionsRm'

