



## Nsmf\_PDUSession

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The Nsmf\_PDUSession service operates on the PDU Sessions. The service operations exposed by this service allows other NFs to establish, modify and release the PDU Sessions. The following are the key functionalities of this NF service:

- Creation, modification and deletion of SM contexts for PDU Sessions upon receiving N1 message notification from AMF carrying the NAS SM messages. An SM context represents an association between the NF Service Consumer (for example, AMF) and the SMF for a PDU session;
- Retrieval of SM contexts of PDU sessions, for example, to move PDU sessions towards the EPC using the N26 interface;
- Creation, modification and deletion of PDU sessions between the V-SMF and H-SMF, in HR roaming scenarios;
- Association of policy and charging rules with PDU Sessions and binding the policy and charging rules to flows;
- Interacting with the UPF over N4 for creating, modifying and releasing user plane sessions;
- Process user plane events from the UPF and apply the corresponding policy and charging rules.

**Reference:** 3GPP TS 29.502 version 15.0.0 Release 15

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## OpenAPI

OpenAPI Version: 3.0.0

## Info

**Version:** '1.0.0'  
**Title:** 'Nsmf\_PDUSession'  
**Description:** 'SMF PDU Session Service'

## Servers

**URL:** '{apiRoot}/nsmf-pdusession/v1'  
**Variables:**  
**API Root:**  
**Default:** https://example.com  
**Description:** apiRoot as defined in subclause 4.4 of 3GPP TS 29.501. The sm-contexts and pdu-sessions resources can be distributed on different processing instances or hosts. Thus the authority and/or deployment-specific string of the apiRoot of the created individual sm context and pdu-session resources' URIs may differ from the authority and/or deployment-specific string of the apiRoot of the sm-contexts and pdu-sessions collections' URIs.

## Security

```
- {}
- oAuth2Clientcredentials:
  - nsmf-pdusession
```

## Paths

### /sm-contexts

**Method:** Post  
**Summary:** Create SM Context  
**Tags:**  
 - SM contexts collection  
**Operation ID:** PostSmContexts  
**Request Body:**  
**Description:** representation of the SM context to be created in the SMF  
**Required/Optional:** true  
**Content:**  
**Multipart/Related:**  
**Schema:**  
**Type:** object  
**Properties:** # Request parts

```

    JSON Data:
      Reference: '#/components/schemas/SmContextCreateData'
    binaryDataN1SmMessage:
      Type: string
      Format: binary
  Encoding:
    JSON Data:
      Content Type: application/json
    binaryDataN1SmMessage:
      Content Type: application/vnd.3gpp.5gnas
    Headers:
      Content ID:
        Schema:
          Type: string
  Callbacks:
    smContextStatusNotification:
      '{$request.body#/smContextStatusUri}':
        Method: Post
        Request Body: # contents of the callback message
        Required/Optional: true
        Content:
          Application/JSON:
            Schema:
              Reference: '#/components/schemas/SmContextStatusNotification'

  Responses:
    '204':
      Description: successful notification
    '307':
      Description: temporary redirect
    '400':
      Reference: 'TS29571_CommonData.yaml#/components/responses/400'
    '403':
      Reference: 'TS29571_CommonData.yaml#/components/responses/403'
    '404':
      Reference: 'TS29571_CommonData.yaml#/components/responses/404'
    '411':
      Reference: 'TS29571_CommonData.yaml#/components/responses/411'
    '413':
      Reference: 'TS29571_CommonData.yaml#/components/responses/413'
    '415':
      Reference: 'TS29571_CommonData.yaml#/components/responses/415'
    '429':
      Reference: 'TS29571_CommonData.yaml#/components/responses/429'
    '500':
      Reference: 'TS29571_CommonData.yaml#/components/responses/500'
    '503':
      Reference: 'TS29571_CommonData.yaml#/components/responses/503'

  Responses:
    '201':
      Description: successful creation of an SM context

```

```

Content:
  Application/JSON: # message without binary body part
  Schema:
    Reference: '#/components/schemas/SmContextCreatedData'
  Multipart/Related: # message with binary body part(s)
  Schema:
    Type: object
    Properties: # Request parts
    JSON Data:
      Reference: '#/components/schemas/SmContextCreatedData'
    binaryDataN2SmInformation:
      Type: string
      Format: binary
  Encoding:
  JSON Data:
    Content Type: application/json
  binaryDataN2SmInformation:
    Content Type: application/vnd.3gpp.ngap
  Headers:
    Content ID:
      Schema:
        Type: string
  Headers:
  Location:
    description: 'Contains the URI of the newly created resource,
according to the structure: {apiRoot}/nsmf-pdusession/v1/sm-contexts/{smContextRef}'

    Required/Optional: true
  Schema:
    Type: string
'307':
  Description: temporary redirect
'308':
  Description: permanent redirect
'400':
  Description: unsuccessful creation of an SM context - bad request
Content:
  Application/JSON: # message without binary body part
  Schema:
    Reference: '#/components/schemas/SmContextCreateError'
  Multipart/Related: # message with binary body part(s)
  Schema:
    Type: object
    Properties: # Request parts
    JSON Data:
      Reference: '#/components/schemas/SmContextCreateError'
    binaryDataN1SmMessage:
      Type: string
      Format: binary
  Encoding:
  JSON Data:
    Content Type: application/json

```

```

    binaryDataN1SmMessage:
      Content Type: application/vnd.3gpp.5gnas
      Headers:
        Content ID:
          Schema:
            Type: string
'403':
  Description: unsuccessful creation of an SM context - forbidden
  Content:
    Application/JSON: # message without binary body part
    Schema:
      Reference: '#/components/schemas/SmContextCreateError'
    Multipart/Related: # message with binary body part(s)
    Schema:
      Type: object
      Properties: # Request parts
      JSON Data:
        Reference: '#/components/schemas/SmContextCreateError'
      binaryDataN1SmMessage:
        Type: string
        Format: binary
    Encoding:
      JSON Data:
        Content Type: application/json
      binaryDataN1SmMessage:
        Content Type: application/vnd.3gpp.5gnas
        Headers:
          Content ID:
            Schema:
              Type: string
'404':
  Description: unsuccessful creation of an SM context - not found
  Content:
    Application/JSON: # message without binary body part
    Schema:
      Reference: '#/components/schemas/SmContextCreateError'
    Multipart/Related: # message with binary body part(s)
    Schema:
      Type: object
      Properties: # Request parts
      JSON Data:
        Reference: '#/components/schemas/SmContextCreateError'
      binaryDataN1SmMessage:
        Type: string
        Format: binary
    Encoding:
      JSON Data:
        Content Type: application/json
      binaryDataN1SmMessage:
        Content Type: application/vnd.3gpp.5gnas
        Headers:

```

```

        Content ID:
        Schema:
        Type: string
'411':
  Reference: 'TS29571_CommonData.yaml#/components/responses/411'
'413':
  Reference: 'TS29571_CommonData.yaml#/components/responses/413'
'415':
  Reference: 'TS29571_CommonData.yaml#/components/responses/415'
'429':
  Reference: 'TS29571_CommonData.yaml#/components/responses/429'
'500':
  Description: unsuccessful creation of an SM context - internal server error
  Content:
    Application/JSON: # message without binary body part
    Schema:
      Reference: '#/components/schemas/SmContextCreateError'
    Multipart/Related: # message with binary body part(s)
    Schema:
      Type: object
      Properties: # Request parts
      JSON Data:
        Reference: '#/components/schemas/SmContextCreateError'
      binaryDataN1SmMessage:
        Type: string
        Format: binary
    Encoding:
      JSON Data:
        Content Type: application/json
      binaryDataN1SmMessage:
        Content Type: application/vnd.3gpp.5gnas
    Headers:
      Content ID:
      Schema:
      Type: string
'503':
  Description: unsuccessful creation of an SM context - service unavailable
  Content:
    Application/JSON: # message without binary body part
    Schema:
      Reference: '#/components/schemas/SmContextCreateError'
    Multipart/Related: # message with binary body part(s)
    Schema:
      Type: object
      Properties: # Request parts
      JSON Data:
        Reference: '#/components/schemas/SmContextCreateError'
      binaryDataN1SmMessage:
        Type: string
        Format: binary
    Encoding:

```

```

    JSON Data:
      Content Type: application/json
    binaryDataN1SmMessage:
      Content Type: application/vnd.3gpp.5gnas
    Headers:
      Content ID:
        Schema:
          Type: string
  '504':
    Description: unsuccessful creation of an SM context - gateway timeout
    Content:
      Application/JSON: # message without binary body part
      Schema:
        Reference: '#/components/schemas/SmContextCreateError'
      Multipart/Related: # message with binary body part(s)
      Schema:
        Type: object
        Properties: # Request parts
        JSON Data:
          Reference: '#/components/schemas/SmContextCreateError'
        binaryDataN1SmMessage:
          Type: string
          Format: binary
      Encoding:
        JSON Data:
          Content Type: application/json
        binaryDataN1SmMessage:
          Content Type: application/vnd.3gpp.5gnas
        Headers:
          Content ID:
            Schema:
              Type: string
    Default:
      Reference: 'TS29571_CommonData.yaml#/components/responses/default'

```

## /sm-contexts/{smContextRef}/retrieve

```

Method: Post
Summary: Retrieve SM Context

Tags:
- Individual SM context
Operation ID: RetrieveSmContext

Parameters:
- Name: smContextRef
  In: path
  Description: SM context reference
  Required/Optional: true
  Schema:
    Type: string

```

**Request Body:****Description:** parameters used to retrieve the SM context**Required/Optional:** false**Content:****Application/JSON:****Schema:****Reference:** '#/components/schemas/SmContextRetrieveData'**Responses:****'200':****Description:** successful retrieval of an SM context**Content:****Application/JSON:****Schema:****Reference:** '#/components/schemas/SmContextRetrievedData'**'400':****Reference:** 'TS29571\_CommonData.yaml#/components/responses/400'**'403':****Reference:** 'TS29571\_CommonData.yaml#/components/responses/403'**'404':****Reference:** 'TS29571\_CommonData.yaml#/components/responses/404'**'411':****Reference:** 'TS29571\_CommonData.yaml#/components/responses/411'**'413':****Reference:** 'TS29571\_CommonData.yaml#/components/responses/413'**'415':****Reference:** 'TS29571\_CommonData.yaml#/components/responses/415'**'429':****Reference:** 'TS29571\_CommonData.yaml#/components/responses/429'**'500':****Reference:** 'TS29571\_CommonData.yaml#/components/responses/500'**'503':****Reference:** 'TS29571\_CommonData.yaml#/components/responses/503'**Default:****Reference:** 'TS29571\_CommonData.yaml#/components/responses/default'

## /sm-contexts/{smContextRef}/modify

**Method:** Post**Summary:** Update SM Context**Tags:**

- Individual SM context

**Operation ID:** UpdateSmContext**Parameters:**- **Name:** smContextRef**In:** path**Description:** SM context reference**Required/Optional:** true**Schema:**



**Type:** string

**Request Body:**

**Description:** representation of the updates to apply to the SM context

**Required/Optional:** true

**Content:**

**Application/JSON:** # message without binary body part

**Schema:**

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

**Multipart/Related:** # message with binary body part(s)

**Schema:**

**Type:** object

**Properties:** # Request parts

**JSON Data:**

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

**binaryDataN1SmMessage:**

**Type:** string

**Format:** binary

**binaryDataN2SmInformation:**

**Type:** string

**Format:** binary

**Encoding:**

**JSON Data:**

**Content Type:** application/json

**binaryDataN1SmMessage:**

**Content Type:** application/vnd.3gpp.5gnas

**Headers:**

**Content ID:**

**Schema:**

**Type:** string

**binaryDataN2SmInformation:**

**Content Type:** application/vnd.3gpp.ngap

**Headers:**

**Content ID:**

**Schema:**

**Type:** string

**Responses:**

**'200':**

**Description:** successful update of an SM context with content in the response

**Content:**

**Application/JSON:** # message without binary body part

**Schema:**

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

**Multipart/Related:** # message with binary body part(s)

**Schema:**

**Type:** object

**Properties:** # Request parts

**JSON Data:**

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

**binaryDataN1SmMessage:**

**Type:** string

**Format:** binary

```

        binaryDataN2SmInformation:
            Type: string
            Format: binary
    Encoding:
    JSON Data:
        Content Type: application/json
    binaryDataN1SmMessage:
        Content Type: application/vnd.3gpp.5gnas
    Headers:
        Content ID:
        Schema:
            Type: string
    binaryDataN2SmInformation:
        Content Type: application/vnd.3gpp.ngap
    Headers:
        Content ID:
        Schema:
            Type: string
'204':
    Description: successful update of an SM context without content in the response
'400':
    Description: unsuccessful update of an SM context - bad request
    Content:
        Application/JSON: # message without binary body part
        Schema:
            Reference: '#/components/schemas/SmContextUpdateError'
        Multipart/Related: # message with binary body part(s)
        Schema:
            Type: object
            Properties: # Request parts
            JSON Data:
                Reference: '#/components/schemas/SmContextUpdateError'
            binaryDataN1SmMessage:
                Type: string
                Format: binary
            binaryDataN2SmInformation:
                Type: string
                Format: binary
    Encoding:
    JSON Data:
        Content Type: application/json
    binaryDataN1SmMessage:
        Content Type: application/vnd.3gpp.5gnas
    Headers:
        Content ID:
        Schema:
            Type: string
    binaryDataN2SmInformation:
        Content Type: application/vnd.3gpp.ngap
    Headers:
        Content ID:

```

```

    Schema:
      Type: string
'403':
  Description: unsuccessful update of an SM context - forbidden
  Content:
    Application/JSON: # message without binary body part
    Schema:
      Reference: '#/components/schemas/SmContextUpdateError'
    Multipart/Related: # message with binary body part(s)
    Schema:
      Type: object
      Properties: # Request parts
      JSON Data:
        Reference: '#/components/schemas/SmContextUpdateError'
      binaryDataN1SmMessage:
        Type: string
        Format: binary
      binaryDataN2SmInformation:
        Type: string
        Format: binary
    Encoding:
      JSON Data:
        Content Type: application/json
      binaryDataN1SmMessage:
        Content Type: application/vnd.3gpp.5gnas
      Headers:
        Content ID:
          Schema:
            Type: string
      binaryDataN2SmInformation:
        Content Type: application/vnd.3gpp.ngap
      Headers:
        Content ID:
          Schema:
            Type: string
'404':
  Description: unsuccessful update of an SM context - not found
  Content:
    Application/JSON: # message without binary body part
    Schema:
      Reference: '#/components/schemas/SmContextUpdateError'
    Multipart/Related: # message with binary body part(s)
    Schema:
      Type: object
      Properties: # Request parts
      JSON Data:
        Reference: '#/components/schemas/SmContextUpdateError'
      binaryDataN1SmMessage:
        Type: string
        Format: binary
      binaryDataN2SmInformation:

```

```

        Type: string
        Format: binary
    Encoding:
    JSON Data:
        Content Type: application/json
    binaryDataN1SmMessage:
        Content Type: application/vnd.3gpp.5gnas
    Headers:
        Content ID:
        Schema:
            Type: string
    binaryDataN2SmInformation:
        Content Type: application/vnd.3gpp.ngap
    Headers:
        Content ID:
        Schema:
            Type: string
'411':
    Reference: 'TS29571_CommonData.yaml#/components/responses/411'
'413':
    Reference: 'TS29571_CommonData.yaml#/components/responses/413'
'415':
    Reference: 'TS29571_CommonData.yaml#/components/responses/415'
'429':
    Reference: 'TS29571_CommonData.yaml#/components/responses/429'
'500':
    Description: unsuccessful update of an SM context - Internal server error
    Content:
        Application/JSON: # message without binary body part
        Schema:
            Reference: '#/components/schemas/SmContextUpdateError'
        Multipart/Related: # message with binary body part(s)
        Schema:
            Type: object
            Properties: # Request parts
            JSON Data:
                Reference: '#/components/schemas/SmContextUpdateError'
            binaryDataN1SmMessage:
                Type: string
                Format: binary
            binaryDataN2SmInformation:
                Type: string
                Format: binary
    Encoding:
    JSON Data:
        Content Type: application/json
    binaryDataN1SmMessage:
        Content Type: application/vnd.3gpp.5gnas
    Headers:
        Content ID:
        Schema:

```

```

        Type: string
    binaryDataN2SmInformation:
        Content Type: application/vnd.3gpp.ngap
        Headers:
            Content ID:
            Schema:
            Type: string
'503':
    Description: unsuccessful update of an SM context - Service Unavailable
    Content:
        Application/JSON: # message without binary body part
        Schema:
            Reference: '#/components/schemas/SmContextUpdateError'
        Multipart/Related: # message with binary body part(s)
        Schema:
            Type: object
            Properties: # Request parts
            JSON Data:
                Reference: '#/components/schemas/SmContextUpdateError'
            binaryDataN1SmMessage:
                Type: string
                Format: binary
            binaryDataN2SmInformation:
                Type: string
                Format: binary
        Encoding:
            JSON Data:
                Content Type: application/json
            binaryDataN1SmMessage:
                Content Type: application/vnd.3gpp.5gnas
            Headers:
                Content ID:
                Schema:
                Type: string
            binaryDataN2SmInformation:
                Content Type: application/vnd.3gpp.ngap
            Headers:
                Content ID:
                Schema:
                Type: string
    Default:
        Reference: 'TS29571_CommonData.yaml#/components/responses/default'

```

## /sm-contexts/{smContextRef}/release

**Method:** Post

**Summary:** Release SM Context

**Tags:**

- Individual SM context

**Operation ID:** ReleaseSmContext

**Parameters:**

- **Name:** smContextRef
  - In:** path
  - Description:** SM context reference
  - Required/Optional:** true
  - Schema:**
    - Type:** string

**Request Body:**

**Description:** representation of the data to be sent to the SMF when releasing the SM context

**Required/Optional:** false

**Content:**

**Application/JSON:** # message without binary body part

**Schema:**

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

**Multipart/Related:** # message with binary body part(s)

**Schema:**

**Type:** object

**Properties:** # Request parts

**JSON Data:**

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

**binaryDataN2SmInformation:**

**Type:** string

**Format:** binary

**Encoding:**

**JSON Data:**

**Content Type:** application/json

**binaryDataN2SmInformation:**

**Content Type:** application/vnd.3gpp.ngap

**Headers:**

**Content ID:**

**Schema:**

**Type:** string

**Responses:**

'204':

**Description:** successful release of an SM context without content in the response

'400':

**Reference:** 'TS29571\_CommonData.yaml#/components/responses/400'

'403':

**Reference:** 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

**Reference:** 'TS29571\_CommonData.yaml#/components/responses/404'

'411':

**Reference:** 'TS29571\_CommonData.yaml#/components/responses/411'

'413':

**Reference:** 'TS29571\_CommonData.yaml#/components/responses/413'

'415':

**Reference:** 'TS29571\_CommonData.yaml#/components/responses/415'

```

'429':
  Reference: 'TS29571_CommonData.yaml#/components/responses/429'
'500':
  Reference: 'TS29571_CommonData.yaml#/components/responses/500'
'503':
  Reference: 'TS29571_CommonData.yaml#/components/responses/503'
Default:
  Reference: 'TS29571_CommonData.yaml#/components/responses/default'

```

## /pdu-sessions

**Method:** Post

**Summary:** Create

**Tags:**

- PDU sessions collection

**Operation ID:** PostPduSessions

**Request Body:**

**Description:** representation of the PDU session to be created in the H-SMF

**Required/Optional:** true

**Content:**

**Application/JSON:** # message without binary body part

**Schema:**

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

**Multipart/Related:** # message with binary body part(s)

**Schema:**

**Type:** object

**Properties:** # Request parts

**JSON Data:**

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

**binaryDataN1SmInfoFromUe:**

**Type:** string

**Format:** binary

**binaryDataUnknownN1SmInfo:**

**Type:** string

**Format:** binary

**Encoding:**

**JSON Data:**

**Content Type:** application/json

**binaryDataN1SmInfoFromUe:**

**Content Type:** application/vnd.3gpp.5gnas

**Headers:**

**Content ID:**

**Schema:**

**Type:** string

**binaryDataUnknownN1SmInfo:**

**Content Type:** application/vnd.3gpp.5gnas

**Headers:**

**Content ID:**

**Schema:**

```

        Type: string
    Callbacks:
        statusNotification:
            '{$request.body#/vsmfPduSessionUri}':
                Method: Post
                Summary: Notify Status

                Tags:
                    - Individual PDU session (V-SMF)
                Operation ID: NotifyStatus
                Request Body:
                    Description: representation of the status notification
                    Required/Optional: true
                    Content:
                        Application/JSON:
                            Schema:
                                Reference: '#/components/schemas/StatusNotification'

                Responses:
                    '204':
                        Description: successful notification of the status change
                    '400':
                        Reference: 'TS29571_CommonData.yaml#/components/responses/400'
                    '403':
                        Reference: 'TS29571_CommonData.yaml#/components/responses/403'
                    '404':
                        Reference: 'TS29571_CommonData.yaml#/components/responses/404'
                    '411':
                        Reference: 'TS29571_CommonData.yaml#/components/responses/411'
                    '413':
                        Reference: 'TS29571_CommonData.yaml#/components/responses/413'
                    '415':
                        Reference: 'TS29571_CommonData.yaml#/components/responses/415'
                    '429':
                        Reference: 'TS29571_CommonData.yaml#/components/responses/429'
                    '500':
                        Reference: 'TS29571_CommonData.yaml#/components/responses/500'
                    '503':
                        Reference: 'TS29571_CommonData.yaml#/components/responses/503'
                    Default:
                        Reference: 'TS29571_CommonData.yaml#/components/responses/default'

    update:
        '{$request.body#/vsmfPduSessionUri}/modify':
            Method: Post
            Summary: Update (initiated by H-SMF)

            Tags:
                - Individual PDU session (V-SMF)
            Operation ID: ModifyPduSession
            Request Body:
                Description: representation of updates to apply to the PDU session
                Required/Optional: true

```



**Content:****application/+json:** # message without binary body part**Schema:****Reference:** '#/components/schemas/VsmfUpdateData'**Multipart/Related:** # message with binary body part(s)**Schema:****Type:** object**Properties:** # Request parts**JSON Data:****Reference:** '#/components/schemas/VsmfUpdateData'**binaryDataN1SmInfoToUe:****Type:** string**Format:** binary**Encoding:****JSON Data:****Content Type:** application/json**binaryDataN1SmInfoToUe:****Content Type:** application/vnd.3gpp.5gnas**Headers:****Content ID:****Schema:****Type:** string**Responses:**

'200':

**Description:** successful update of a PDU session with content in the

response

**Content:****Application/JSON:** # message without binary body part**Schema:****Reference:** '#/components/schemas/VsmfUpdatedData'**Multipart/Related:** # message with binary body part(s)**Schema:****Type:** object**Properties:** # Request parts**JSON Data:****Reference:** '#/components/schemas/VsmfUpdatedData'**binaryDataN1SmInfoFromUe:****Type:** string**Format:** binary**binaryDataUnknownN1SmInfo:****Type:** string**Format:** binary**Encoding:****JSON Data:****Content Type:** application/json**binaryDataN1SmInfoFromUe:****Content Type:** application/vnd.3gpp.5gnas**Headers:****Content ID:****Schema:****Type:** string

```

        binaryDataUnknownN1SmInfo:
          Content Type: application/vnd.3gpp.5gnas
          Headers:
            Content ID:
              Schema:
                Type: string
      '204':
        Description: successful update of a PDU session without content in the
response
      '400':
        Reference: '#/components/responses/VsmfUpdateError'
      '403':
        Reference: '#/components/responses/VsmfUpdateError'
      '404':
        Reference: '#/components/responses/VsmfUpdateError'
      '411':
        Reference: 'TS29571_CommonData.yaml#/components/responses/411'
      '413':
        Reference: 'TS29571_CommonData.yaml#/components/responses/413'
      '415':
        Reference: 'TS29571_CommonData.yaml#/components/responses/415'
      '429':
        Reference: 'TS29571_CommonData.yaml#/components/responses/429'
      '500':
        Reference: '#/components/responses/VsmfUpdateError'
      '503':
        Reference: '#/components/responses/VsmfUpdateError'
      '504':
        Reference: '#/components/responses/VsmfUpdateError'
    Default:
      Reference: 'TS29571_CommonData.yaml#/components/responses/default'

```

**Responses:**

```

'201':
  Description: successful creation of a PDU session
  Content:
    Application/JSON: # message without binary body part
    Schema:
      Reference: '#/components/schemas/PduSessionCreatedData'
    Multipart/Related: # message with binary body part(s)
    Schema:
      Type: object
      Properties: # Request parts
      JSON Data:
        Reference: '#/components/schemas/PduSessionCreatedData'
      binaryDataN1SmInfoToUe:
        Type: string
        Format: binary
    Encoding:
      JSON Data:
        Content Type: application/json
      binaryDataN1SmInfoToUe:

```

```

    Content Type: application/vnd.3gpp.5gnas
    Headers:
      Content ID:
        Schema:
          Type: string
    Headers:
      Location:
        description: 'Contains the URI of the newly created resource,
according to the structure: {apiRoot}/nsmf-pdusession/v1/pdu-sessions/{pduSessionRef}'

    Required/Optional: true
    Schema:
      Type: string
'307':
  Description: temporary redirect
'308':
  Description: permanent redirect
'400':
  Reference: '#/components/responses/PduSessionCreateError'
'403':
  Reference: '#/components/responses/PduSessionCreateError'
'404':
  Reference: '#/components/responses/PduSessionCreateError'
'411':
  Reference: 'TS29571_CommonData.yaml#/components/responses/411'
'413':
  Reference: 'TS29571_CommonData.yaml#/components/responses/413'
'415':
  Reference: 'TS29571_CommonData.yaml#/components/responses/415'
'429':
  Reference: 'TS29571_CommonData.yaml#/components/responses/429'
'500':
  Reference: '#/components/responses/PduSessionCreateError'
'503':
  Reference: '#/components/responses/PduSessionCreateError'
Default:
  Reference: 'TS29571_CommonData.yaml#/components/responses/default'

```

## /pdu-sessions/{pduSessionRef}/modify

**Method:** Post

**Summary:** Update (initiated by V-SMF)

**Tags:**

- Individual PDU session (H-SMF)

**Operation ID:** UpdatePduSession

**Parameters:**

- **Name:** pduSessionRef

**In:** path

**Description:** PDU session reference

**Required/Optional:** true  
**Schema:**  
**Type:** string

**Request Body:**  
**Description:** representation of the updates to apply to the PDU session  
**Required/Optional:** true  
**Content:**  
**Application/JSON:** # message without binary body part  
**Schema:**  
**Reference:** '#/components/schemas/HsmfUpdateData'  
**Multipart/Related:** # message with binary body part(s)  
**Schema:**  
**Type:** object  
**Properties:** # Request parts  
**JSON Data:**  
**Reference:** '#/components/schemas/HsmfUpdateData'  
**binaryDataN1SmInfoFromUe:**  
**Type:** string  
**Format:** binary  
**binaryDataUnknownN1SmInfo:**  
**Type:** string  
**Format:** binary

**Encoding:**  
**JSON Data:**  
**Content Type:** application/json  
**binaryDataN1SmInfoFromUe:**  
**Content Type:** application/vnd.3gpp.5gnas  
**Headers:**  
**Content ID:**  
**Schema:**  
**Type:** string  
**binaryDataUnknownN1SmInfo:**  
**Content Type:** application/vnd.3gpp.5gnas  
**Headers:**  
**Content ID:**  
**Schema:**  
**Type:** string

**Responses:**  
**'200':**  
**Description:** successful update of a PDU session with content in the response  
**Content:**  
**Application/JSON:** # message without binary body part  
**Schema:**  
**Reference:** '#/components/schemas/HsmfUpdatedData'  
**Multipart/Related:** # message with binary body part(s)  
**Schema:**  
**Type:** object  
**Properties:** # Request parts  
**JSON Data:**  
**Reference:** '#/components/schemas/HsmfUpdatedData'  
**binaryDataN1SmInfoToUe:**

```

        Type: string
        Format: binary
    Encoding:
        JSON Data:
            Content Type: application/json
        binaryDataN1SmInfoToUe:
            Content Type: application/vnd.3gpp.5gnas
        Headers:
            Content ID:
                Schema:
                    Type: string
    '204':
        Description: successful update of a PDU session without content in the response
    '400':
        Reference: '#/components/responses/HsmfUpdateError'
    '403':
        Reference: '#/components/responses/HsmfUpdateError'
    '404':
        Reference: '#/components/responses/HsmfUpdateError'
    '411':
        Reference: 'TS29571_CommonData.yaml#/components/responses/411'
    '413':
        Reference: 'TS29571_CommonData.yaml#/components/responses/413'
    '415':
        Reference: 'TS29571_CommonData.yaml#/components/responses/415'
    '429':
        Reference: 'TS29571_CommonData.yaml#/components/responses/429'
    '500':
        Reference: '#/components/responses/HsmfUpdateError'
    '503':
        Reference: '#/components/responses/HsmfUpdateError'
    Default:
        Reference: 'TS29571_CommonData.yaml#/components/responses/default'

```

## /pdu-sessions/{pduSessionRef}/release

```

Method: Post
Summary: Release

Tags:
- Individual PDU session (H-SMF)
Operation ID: ReleasePduSession

Parameters:
- Name: pduSessionRef
  In: path
  Description: PDU session reference
  Required/Optional: true
  Schema:
    Type: string
Request Body:

```

**Description:** representation of the data to be sent to H-SMF when releasing the PDU session

**Required/Optional:** false

**Content:**

**Application/JSON:**

**Schema:**

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

**Responses:**

**'204':**

**Description:** successful release of a PDU session

**'400':**

**Reference:** 'TS29571\_CommonData.yaml#/components/responses/400'

**'403':**

**Reference:** 'TS29571\_CommonData.yaml#/components/responses/403'

**'404':**

**Reference:** 'TS29571\_CommonData.yaml#/components/responses/404'

**'411':**

**Reference:** 'TS29571\_CommonData.yaml#/components/responses/411'

**'413':**

**Reference:** 'TS29571\_CommonData.yaml#/components/responses/413'

**'415':**

**Reference:** 'TS29571\_CommonData.yaml#/components/responses/415'

**'429':**

**Reference:** 'TS29571\_CommonData.yaml#/components/responses/429'

**'500':**

**Reference:** 'TS29571\_CommonData.yaml#/components/responses/500'

**'503':**

**Reference:** 'TS29571\_CommonData.yaml#/components/responses/503'

**Default:**

**Reference:** 'TS29571\_CommonData.yaml#/components/responses/default'

## Components

**securitySchemes:**

**oAuth2ClientCredentials:**

**Type:** oauth2

**Flows:**

**clientCredentials:**

**tokenUrl:** '{nrfApiRoot}/oauth2/token'

**scopes:**

**nsmf-pdusession:** Access to the nsmf-pdusession API

**schemas:**

# STRUCTURED DATA TYPES

**SmContextCreateData:**

**Type:** object

**Properties:**

**supi:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Supi'

```

unauthenticatedSupi:
  Type: boolean
  Default: false
pei:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/Pei'
gpsi:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/Gpsi'
pduSessionId:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'
dnn:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/Dnn'
sNssai:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
hplmnSnssai:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
servingNfId:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
guami:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/Guami'
serviceName:
  Reference: 'TS29510_Nnrf_NFManagement.yaml#/components/schemas/ServiceName'
servingNetwork:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/PlmnId'
requestType:
  Reference: '#/components/schemas/RequestType'
n1SmMsg:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/RefToBinaryData'
anType:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/AccessType'
ratType:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/RatType'
presenceInLadn:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/PresenceState'
ueLocation:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/UserLocation'
ueTimeZone:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/TimeZone'
addUeLocation:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/UserLocation'
smContextStatusUri:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
hSmfUri:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
additionalHsmfUri:
  Type: array
  Items:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
  minItems: 1
oldPduSessionId:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'
pduSessionsActivateList:

```

```

    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'
    minItems: 1
  ueEpsPdnConnection:
    Reference: '#/components/schemas/EpsPdnCnxContainer'
  hoState:
    Reference: '#/components/schemas/HoState'
  pcfId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
  nrfUri:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
  supportedFeatures:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
  selMode:
    Reference: '#/components/schemas/DnnSelectionMode'
  backupAmfInfo:
    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/BackupAmfInfo'
    minItems: 1
  traceData:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/TraceData'
  udmGroupId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NfGroupId'
  routingIndicator:
    Type: string
  epsInterworkingInd:
    Reference: '#/components/schemas/EpsInterworkingIndication'
  indirectForwardingFlag:
    Type: boolean
  Required:
    - servingNfId
    - servingNetwork
    - anType
    - smContextStatusUri
  SmContextCreatedData:
    Type: object
  Properties:
    hSmfUri:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
    pduSessionId:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'
    sNssai:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
    upCnxState:
      Reference: '#/components/schemas/UpCnxState'
    n2SmInfo:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/RefToBinaryData'
    n2SmInfoType:
      Reference: '#/components/schemas/N2SmInfoType'
    allocatedEbiList:

```



```

    Type: array
    Items:
      Reference: '#/components/schemas/EbiArpMapping'
    minItems: 1
  hoState:
    Reference: '#/components/schemas/HoState'
  smfServiceInstanceId:
    Type: string
  recoveryTime:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
  supportedFeatures:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
SmContextUpdateData:
  Type: object
  Properties:
    pei:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Pei'
    gpsi:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Gpsi'
    servingNfId:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
    guami:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Guami'
    servingNetwork:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/PlmnId'
    backupAmfInfo:
      Type: array
      Items:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/BackupAmfInfo'
      minItems: 1
      nullable: true
    anType:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/AccessType'
    ratType:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/RatType'
    presenceInLadn:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/PresenceState'
    ueLocation:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/UserLocation'
    ueTimeZone:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/TimeZone'
    addUeLocation:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/UserLocation'
    upCnxState:
      Reference: '#/components/schemas/UpCnxState'
    hoState:
      Reference: '#/components/schemas/HoState'
    toBeSwitched:
      Type: boolean
      Default: false
    failedToBeSwitched:

```

```

    Type: boolean
n1SmMsg:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/RefToBinaryData'
n2SmInfo:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/RefToBinaryData'
n2SmInfoType:
  Reference: '#/components/schemas/N2SmInfoType'
targetServingNfId:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
smContextStatusUri:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
dataForwarding:
  Type: boolean
  Default: false
epsBearerSetup:
  Type: array
  Items:
    Reference: '#/components/schemas/EpsBearerContainer'
  minItems: 0
revokeEbiList:
  Type: array
  Items:
    Reference: '#/components/schemas/EpsBearerId'
  minItems: 1
release:
  Type: boolean
  Default: false
cause:
  Reference: '#/components/schemas/Cause'
ngApCause:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/NgApCause'
5gMmCauseValue:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/5GMmCause'
sNssai:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
traceData:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/TraceData'
epsInterworkingInd:
  Reference: '#/components/schemas/EpsInterworkingIndication'
anTypeCanBeChanged:
  Type: boolean
  Default: false
SmContextUpdatedData:
  Type: object
  Properties:
    upCnxState:
      Reference: '#/components/schemas/UpCnxState'
    hoState:
      Reference: '#/components/schemas/HoState'
    releaseEbiList:
      Type: array

```

```

    Items:
      Reference: '#/components/schemas/EpsBearerId'
    minItems: 1
  allocatedEbiList:
    Type: array
    Items:
      Reference: '#/components/schemas/EbiArpMapping'
    minItems: 1
  modifiedEbiList:
    Type: array
    Items:
      Reference: '#/components/schemas/EbiArpMapping'
    minItems: 1
  n1SmMsg:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/RefToBinaryData'
  n2SmInfo:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/RefToBinaryData'
  n2SmInfoType:
    Reference: '#/components/schemas/N2SmInfoType'
  epsBearerSetup:
    Type: array
    Items:
      Reference: '#/components/schemas/EpsBearerContainer'
    minItems: 1
  dataForwarding:
    Type: boolean
SmContextReleaseData:
  Type: object
  Properties:
    cause:
      Reference: '#/components/schemas/Cause'
    ngApCause:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/NgApCause'
    5gMmCauseValue:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/5GmCause'
    ueLocation:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/UserLocation'
    ueTimeZone:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/TimeZone'
    addUeLocation:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/UserLocation'
    vsmfReleaseOnly:
      Type: boolean
      Default: false
SmContextStatusNotification:
  Type: object
  Properties:
    statusInfo :
      Reference: '#/components/schemas/StatusInfo'
  Required:
    - statusInfo
PduSessionCreateData:

```

```

Type: object
Properties:
  supi:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Supi'
  unauthenticatedSupi:
    Type: boolean
    Default: false
  pei:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Pei'
  pduSessionId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'
  dnn:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Dnn'
  sNssai:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
  vsmfId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
  servingNetwork:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/PlmnId'
  requestType:
    Reference: '#/components/schemas/RequestType'
  epsBearerId:
    Type: array
    Items:
      Reference: '#/components/schemas/EpsBearerId'
    minItems: 1
  pgwS8cFteid:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Bytes'
  vsmfPduSessionUri:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
  vcnTunnelInfo:
    Reference: '#/components/schemas/TunnelInfo'
  anType:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/AccessType'
  ratType:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/RatType'
  ueLocation:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/UserLocation'
  ueTimeZone:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/TimeZone'
  addUeLocation:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/UserLocation'
  gpsi:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Gpsi'
  n1SmInfoFromUe:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/RefToBinaryData'
  unknownN1SmInfo:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/RefToBinaryData'
  supportedFeatures:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
  hPcfId:

```

```

    Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
  hoPreparationIndication:
    Type: boolean
  selMode:
    Reference: '#/components/schemas/DnnSelectionMode'
  alwaysOnRequested:
    Type: boolean
    Default: false
  udmGroupId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NfGroupId'
  routingIndicator:
    Type: string
  epsInterworkingInd:
    Reference: '#/components/schemas/EpsInterworkingIndication'
  vSmfServiceInstanceId:
    Type: string
  recoveryTime:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
  roamingChargingProfile:
    Reference:
'TS32291_Nchf_ConvergedCharging.yaml#/components/schemas/RoamingChargingProfile'
  chargingId:
    Type: string
  oldPduSessionId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'
  Required:
    - dnn
    - vsmfId
    - servingNetwork
    - vsmfPduSessionUri
    - vcnTunnelInfo
    - anType
  PduSessionCreatedData:
    Type: object
  Properties:
    pduSessionType:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/PduSessionType'
    sscMode:
      Type: string
      Pattern: '^ [0-7] $'
    hcnTunnelInfo:
      Reference: '#/components/schemas/TunnelInfo'
    sessionAmbr:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Ambr'
    qosFlowsSetupList:
      Type: array
      Items:
        Reference: '#/components/schemas/QosFlowSetupItem'
      minItems: 1
    hSmfInstanceId:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
    pduSessionId:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'

```

```

sNssai:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
enablePauseCharging:
  Type: boolean
  Default: false
ueIpv4Address:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv4Addr'
ueIpv6Prefix:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv6Prefix'
n1SmInfoToUe:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/RefToBinaryData'
epsPdnCnxInfo:
  Reference: '#/components/schemas/EpsPdnCnxInfo'
epsBearerInfo:
  Type: array
  Items:
    Reference: '#/components/schemas/EpsBearerInfo'
  minItems: 1
supportedFeatures:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
maxIntegrityProtectedDataRate:
  Reference: '#/components/schemas/MaxIntegrityProtectedDataRate'
alwaysOnGranted:
  Type: boolean
  Default: false
upSecurity:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/UpSecurity'
roamingChargingProfile:
  Reference:
'TS32291_Nchf_ConvergedCharging.yaml#/components/schemas/RoamingChargingProfile'
hSmfServiceInstanceId:
  Type: string
recoveryTime:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
Required:
- pduSessionType
- sscMode
- hcnTunnelInfo
- sessionAmbr
- qosFlowsSetupList
- hSmfInstanceId
HsmfUpdateData:
Type: object
Properties:
  requestIndication:
    Reference: '#/components/schemas/RequestIndication'
  pei:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Pei'
  vcnTunnelInfo:
    Reference: '#/components/schemas/TunnelInfo'
  servingNetwork:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/PlmnId'
anType:

```

```

    Reference: 'TS29571_CommonData.yaml#/components/schemas/AccessType'
  ratType:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/RatType'
  ueLocation:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/UserLocation'
  ueTimeZone:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/TimeZone'
  addUeLocation:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/UserLocation'
  pauseCharging:
    Type: boolean
  pti:
    Reference: '#/components/schemas/ProcedureTransactionId'
  n1SmInfoFromUe:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/RefToBinaryData'
  unknownN1SmInfo:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/RefToBinaryData'
  qosFlowsRelNotifyList:
    Type: array
    Items:
      Reference: '#/components/schemas/QosFlowItem'
    minItems: 1
  qosFlowsNotifyList:
    Type: array
    Items:
      Reference: '#/components/schemas/QosFlowNotifyItem'
    minItems: 1
  NotifyList:
    Type: array
    Items:
      Reference: '#/components/schemas/PduSessionNotifyItem'
    minItems: 1
  epsBearerId:
    Type: array
    Items:
      Reference: '#/components/schemas/EpsBearerId'
    minItems: 0
  hoPreparationIndication:
    Type: boolean
  revokeEbiList:
    Type: array
    Items:
      Reference: '#/components/schemas/EpsBearerId'
    minItems: 1
  cause:
    Reference: '#/components/schemas/Cause'
  ngApCause:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NgApCause'
  5gMmCauseValue:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/5GMmCause'
  alwaysOnRequested:

```

```

    Type: boolean
    Default: false
  epsInterworkingInd:
    Reference: '#/components/schemas/EpsInterworkingIndication'
  secondaryRatUsageReport:
    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/SecondaryRatUsageReport'

    minItems: 1
  Required:
    - requestIndication
  HsmfUpdatedData:
    Type: object
    Properties:
      n1SmInfoToUe:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/RefToBinaryData'
  ReleaseData:
    Type: object
    Properties:
      cause:
        Reference: '#/components/schemas/Cause'
      ngApCause:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/NgApCause'
      5gMmCauseValue:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/5GMmCause'
      ueLocation:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/UserLocation'
      ueTimeZone:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/TimeZone'
      addUeLocation:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/UserLocation'
      secondaryRatUsageReport:
        Type: array
        Items:
          Reference: 'TS29571_CommonData.yaml#/components/schemas/SecondaryRatUsageReport'

    minItems: 1
  ReleasedData:
    Type: object
  VsmfUpdateData:
    Type: object
    Properties:
      requestIndication:
        Reference: '#/components/schemas/RequestIndication'
      sessionAmbr:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Ambr'
      qosFlowsAddModRequestList:
        Type: array
        Items:
          Reference: '#/components/schemas/QosFlowAddModifyRequestItem'
    minItems: 1

```



```

qosFlowsRelRequestList:
  Type: array
  Items:
    Reference: '#/components/schemas/QosFlowReleaseRequestItem'
  minItems: 1
epsBearerInfo:
  Type: array
  Items:
    Reference: '#/components/schemas/EpsBearerInfo'
  minItems: 1
assignEbiList:
  Type: array
  Items:
    Reference: '#/components/schemas/EpsBearerId'
  minItems: 1
revokeEbiList:
  Type: array
  Items:
    Reference: '#/components/schemas/EpsBearerId'
  minItems: 1
modifiedEbiList:
  Type: array
  Items:
    Reference: '#/components/schemas/EbiArpMapping'
  minItems: 1
pti:
  Reference: '#/components/schemas/ProcedureTransactionId'
n1smInfoToUe:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/RefToBinaryData'
alwaysOnGranted:
  Type: boolean
  Default: false
cause:
  Reference: '#/components/schemas/Cause'
n1smCause:
  Type: string
backOffTimer:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/DurationSec'
Required:
  - requestIndication
VsmfUpdatedData:
Type: object
Properties:
  qosFlowsAddModList:
    Type: array
    Items:
      Reference: '#/components/schemas/QosFlowItem'
    minItems: 1
  qosFlowsRelList:
    Type: array
    Items:
      Reference: '#/components/schemas/QosFlowItem'

```

```

    minItems: 1
  qosFlowsFailedToAddModList:
    Type: array
    Items:
      Reference: '#/components/schemas/QosFlowItem'
    minItems: 1
  qosFlowsFailedToRelList:
    Type: array
    Items:
      Reference: '#/components/schemas/QosFlowItem'
    minItems: 1
  n1SmInfoFromUe:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/RefToBinaryData'
  unknownN1SmInfo:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/RefToBinaryData'
  ueLocation:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/UserLocation'
  ueTimeZone:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/TimeZone'
  addUeLocation:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/UserLocation'
  assignedEbiList:
    Type: array
    Items:
      Reference: '#/components/schemas/EbiArpMapping'
    minItems: 1
  failedToAssignEbiList:
    Type: array
    Items:
      Reference: '#/components/schemas/EpsBearerId'
    minItems: 1
  releasedEbiList:
    Type: array
    Items:
      Reference: '#/components/schemas/EpsBearerId'
    minItems: 1
  secondaryRatUsageReport:
    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/SecondaryRatUsageReport'
    minItems: 1
  StatusNotification:
    Type: object
    Properties:
      statusInfo :
        Reference: '#/components/schemas/StatusInfo'
    Required:
      - statusInfo
  QosFlowItem:
    Type: object
    Properties:

```

```

    qfi:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Qfi'
    cause:
      Reference: '#/components/schemas/Cause'
  Required:
  - qfi
QosFlowSetupItem:
  Type: object
  Properties:
    qfi:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Qfi'
    qosRules:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Bytes'
    ebi:
      Reference: '#/components/schemas/EpsBearerId'
    qosFlowDescription:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Bytes'
    qosFlowProfile:
      Reference: '#/components/schemas/QosFlowProfile'
  Required:
  - qfi
  - qosRules
QosFlowAddModifyRequestItem:
  Type: object
  Properties:
    qfi:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Qfi'
    ebi:
      Reference: '#/components/schemas/EpsBearerId'
    qosRules:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Bytes'
    qosFlowDescription:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Bytes'
    qosFlowProfile:
      Reference: '#/components/schemas/QosFlowProfile'
  Required:
  - qfi
QosFlowReleaseRequestItem:
  Type: object
  Properties:
    qfi:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Qfi'
    qosRules:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Bytes'
    qosFlowDescription:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Bytes'
  Required:
  - qfi
QosFlowProfile:
  Type: object
  Properties:
    5qi:

```

```

    Reference: 'TS29571_CommonData.yaml#/components/schemas/5Qi'
nonDynamic5Qi:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NonDynamic5Qi'
dynamic5Qi:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Dynamic5Qi'
arp:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Arp'
gbrQosFlowInfo:
    Reference: '#/components/schemas/GbrQosFlowInformation'
rqa:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/ReflectiveQoSAttribute'
additionalQosFlowInfo:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/AdditionalQosFlowInfo'
Required:
  - 5qi
GbrQosFlowInformation:
Type: object
Properties:
  maxFbrDl:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/BitRate'
  maxFbrUl:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/BitRate'
  guaFbrDl:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/BitRate'
  guaFbrUl:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/BitRate'
  notifControl:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NotificationControl'
  maxPacketLossRateDl:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/PacketLossRate'
  maxPacketLossRateUl:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/PacketLossRate'
Required:
  - maxFbrDl
  - maxFbrUl
  - guaFbrDl
  - guaFbrUl
QosFlowNotifyItem:
Type: object
Properties:
  qfi:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Qfi'
  notificationCause:
    Reference: '#/components/schemas/NotificationCause'
Required:
  - qfi
  - notificationCause
SmContextRetrieveData:
Type: object
Properties:
  targetMmeCap:
    Reference: '#/components/schemas/MmeCapabilities'
SmContextRetrievedData:

```

```
Type: object
Properties:
  ueEpsPdnConnection:
    Reference: '#/components/schemas/EpsPdnCnxContainer'
Required:
  - ueEpsPdnConnection
MmeCapabilities:
Type: object
Properties:
  nonIpSupported:
    Type: boolean
    Default: false
TunnelInfo:
Type: object
Properties:
  ipv4Addr:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv4Addr'
  ipv6Addr:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv6Addr'
  gtpTeid:
    Reference: '#/components/schemas/Teid'
Required:
  - gtpTeid
StatusInfo:
Type: object
Properties:
  resourceStatus:
    Reference: '#/components/schemas/ResourceStatus'
  cause:
    Reference: '#/components/schemas/Cause'
Required:
  - resourceStatus
EpsPdnCnxInfo:
Type: object
Properties:
  pgwS8cFteid:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Bytes'
  pgwNodeName:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Bytes'
Required:
  - pgwS8cFteid
EpsBearerInfo:
Type: object
Properties:
  ebi:
    Reference: '#/components/schemas/EpsBearerId'
  pgwS8uFteid:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Bytes'
  bearerLevelQoS:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Bytes'
Required:
  - ebi
  - pgwS8uFteid
```

```

    - bearerLevelQoS
PduSessionNotifyItem:
  Type: object
  Properties:
    notificationCause:
      Reference: '#/components/schemas/NotificationCause'
  Required:
    - notificationCause
EbiArpMapping:
  Type: object
  Properties:
    epsBearerId:
      Reference: '#/components/schemas/EpsBearerId'
    arp:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Arp'
  Required:
    - epsBearerId
    - arp
SmContextCreateError:
  Type: object
  Properties:
    error:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
    n1SmMsg:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/RefToBinaryData'
    recoveryTime:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
  Required:
    - error
SmContextUpdateError:
  Type: object
  Properties:
    error:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
    n1SmMsg:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/RefToBinaryData'
    n2SmInfo:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/RefToBinaryData'
    n2SmInfoType:
      Reference: '#/components/schemas/N2SmInfoType'
    upCnxState:
      Reference: '#/components/schemas/UpCnxState'
    recoveryTime:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
  Required:
    - error
PduSessionCreateError:
  Type: object
  Properties:
    error:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
    n1smCause:
      Type: string

```

```

    Pattern: '^[A-F0-9]{2}$'
n1SmInfoToUe:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/RefToBinaryData'
backOffTimer:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/DurationSec'
recoveryTime:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
Required:
  - error
HsmfUpdateError:
Type: object
Properties:
  error:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
  pti:
    Reference: '#/components/schemas/ProcedureTransactionId'
  n1smCause:
    Type: string
    Pattern: '^[A-F0-9]{2}$'
  n1SmInfoToUe:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/RefToBinaryData'
  backOffTimer:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/DurationSec'
  recoveryTime:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
Required:
  - error
VsmfUpdateError:
Type: object
Properties:
  error:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
  pti:
    Reference: '#/components/schemas/ProcedureTransactionId'
  n1smCause:
    Type: string
    Pattern: '^[A-F0-9]{2}$'
  n1SmInfoFromUe:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/RefToBinaryData'
  unknownN1SmInfo:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/RefToBinaryData'
  failedToAssignEbiList:
    Type: array
    Items:
      Reference: '#/components/schemas/EpsBearerId'
    minItems: 1
  ngApCause:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NgApCause'
  5gMmCauseValue:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/5GMmCause'
  recoveryTime:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'

```

```

Required:
  - error
# SIMPLE DATA TYPES
ProcedureTransactionId:
  Type: integer
  Minimum: 0
  Maximum: 255
EpsBearerId:
  Type: integer
  Minimum: 0
  Maximum: 15
EpsPdnCnxContainer:
  Type: string
EpsBearerContainer:
  Type: string
Teid:
  Type: string
  Pattern: '^[A-F0-9]{8}$'
# ENUMERATIONS
UpCnxState:
  anyOf:
    - type: string
      enum:
        - ACTIVATED
        - DEACTIVATED
        - ACTIVATING
    - 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
        - ACTIVATED
        - DEACTIVATED
        - ACTIVATING
HoState:
  anyOf:
    - type: string
      enum:
        - NONE
        - PREPARING
        - PREPARED
        - COMPLETED
        - CANCELLED
    - 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
        - NONE
        - PREPARING
        - PREPARED
        - COMPLETED
        - CANCELLED
RequestType:

```



**anyOf:**

- type: string

**enum:**

- INITIAL\_REQUEST
- EXISTING\_PDU\_SESSION
- INITIAL\_EMERGENCY\_REQUEST
- EXISTING\_EMERGENCY\_PDU\_SESSION

- 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

- INITIAL\_REQUEST
- EXISTING\_PDU\_SESSION
- INITIAL\_EMERGENCY\_REQUEST
- EXISTING\_EMERGENCY\_PDU\_SESSION

**RequestIndication:****anyOf:**

- type: string

**enum:**

- UE\_REQ\_PDU\_SES\_MOD
- UE\_REQ\_PDU\_SES\_REL
- PDU\_SES\_MOB
- NW\_REQ\_PDU\_SES\_AUTH
- NW\_REQ\_PDU\_SES\_MOD
- NW\_REQ\_PDU\_SES\_REL
- EBI\_ASSIGNMENT\_REQ

- 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\_REQ\_PDU\_SES\_MOD
- UE\_REQ\_PDU\_SES\_REL
- PDU\_SES\_MOB
- NW\_REQ\_PDU\_SES\_AUTH
- NW\_REQ\_PDU\_SES\_MOD
- NW\_REQ\_PDU\_SES\_REL
- EBI\_ASSIGNMENT\_REQ

**NotificationCause:****anyOf:**

- type: string

**enum:**

- QOS\_FULFILLED
- QOS\_NOT\_FULFILLED
- UP\_SEC\_FULFILLED
- UP\_SEC\_NOT\_FULFILLED

- 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

- QOS\_FULFILLED
- QOS\_NOT\_FULFILLED
- UP\_SEC\_FULFILLED

- UP\_SEC\_NOT\_FULFILLED

**Cause:**

**anyOf:**

- type: string

**enum:**

- REL\_DUE\_TO\_HO
- EPS\_FALLBACK
- REL\_DUE\_TO\_UP\_SEC
- DNN\_CONGESTION
- S-NSSAI\_CONGESTION
- REL\_DUE\_TO\_REACTIVATION
- 5G\_AN\_NOT\_RESPONDING
- REL\_DUE\_TO\_SLICE\_NOT\_AVAILABLE
- REL\_DUE\_TO\_DUPLICATE\_SESSION\_ID
- PDU\_SESSION\_STATUS\_MISMATCH
- HO\_FAILURE

- 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

- REL\_DUE\_TO\_HO
- EPS\_FALLBACK
- REL\_DUE\_TO\_UP\_SEC
- DNN\_CONGESTION
- S-NSSAI\_CONGESTION
- REL\_DUE\_TO\_REACTIVATION
- 5G\_AN\_NOT\_RESPONDING
- REL\_DUE\_TO\_SLICE\_NOT\_AVAILABLE
- REL\_DUE\_TO\_DUPLICATE\_SESSION\_ID
- PDU\_SESSION\_STATUS\_MISMATCH
- HO\_FAILURE

**ResourceStatus:**

**anyOf:**

- type: string

**enum:**

- RELEASED

- 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

- RELEASED

**DnnSelectionMode:**

**anyOf:**

- type: string

**enum:**

- VERIFIED
- UE\_DNN\_NOT\_VERIFIED
- NW\_DNN\_NOT\_VERIFIED

- 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

- VERIFIED
- UE\_DNN\_NOT\_VERIFIED
- NW\_DNN\_NOT\_VERIFIED

**EpsInterworkingIndication:****anyOf:**

- type: string

**enum:**

- NONE
  - WITH\_N26
  - WITHOUT\_N26
- 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

- NONE
- WITH\_N26
- WITHOUT\_N26

**N2SmInfoType:****anyOf:**

- type: string

**enum:**

- PDU\_RES\_SETUP\_REQ
  - PDU\_RES\_SETUP\_RSP
  - PDU\_RES\_SETUP\_FAIL
  - PDU\_RES\_REL\_CMD
  - PDU\_RES\_REL\_RSP
  - PDU\_RES\_MOD\_REQ
  - PDU\_RES\_MOD\_RSP
  - PDU\_RES\_MOD\_FAIL
  - PDU\_RES\_NTY
  - PDU\_RES\_NTY\_REL
  - PDU\_RES\_MOD\_IND
  - PDU\_RES\_MOD\_CFM
  - PATH\_SWITCH\_REQ
  - PATH\_SWITCH\_SETUP\_FAIL
  - PATH\_SWITCH\_REQ\_ACK
  - PATH\_SWITCH\_REQ\_FAIL
  - HANDOVER\_REQUIRED
  - HANDOVER\_CMD
  - HANDOVER\_PREP\_FAIL
  - HANDOVER\_REQ\_ACK
  - HANDOVER\_RES\_ALLOC\_FAIL
- 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

- PDU\_RES\_SETUP\_REQ
- PDU\_RES\_SETUP\_RSP
- PDU\_RES\_SETUP\_FAIL
- PDU\_RES\_REL\_CMD
- PDU\_RES\_REL\_RSP
- PDU\_RES\_MOD\_REQ
- PDU\_RES\_MOD\_RSP
- PDU\_RES\_MOD\_FAIL
- PDU\_RES\_NTY
- PDU\_RES\_NTY\_REL

- PDU\_RES\_MOD\_IND
- PDU\_RES\_MOD\_CFM
- PATH\_SWITCH\_REQ
- PATH\_SWITCH\_SETUP\_FAIL
- PATH\_SWITCH\_REQ\_ACK
- PATH\_SWITCH\_REQ\_FAIL
- HANDOVER\_REQUIRED
- HANDOVER\_CMD
- HANDOVER\_PREP\_FAIL
- HANDOVER\_REQ\_ACK
- HANDOVER\_RES\_ALLOC\_FAIL

**MaxIntegrityProtectedDataRate:****anyOf:**

- type: string

**enum:**

- 64\_KBPS
- MAX\_UE\_RATE

- 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

- 64\_KBPS
- MAX\_UE\_RATE

# HTTP responses

**responses:****'PduSessionCreateError':**

**Description:** unsuccessful creation of a PDU session

**content:**

**application/json:** # message without binary body part

**schema:**

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

**multipart/related:** # message with binary body part(s)

**schema:**

**Type:** object

**Properties:** # Request parts

**jsonData:**

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

**binaryDataN1SmInfoToUe:**

**Type:** string

**format:** binary

**encoding:****jsonData:**

**contentType:** application/json

**binaryDataN1SmInfoToUe:**

**contentType:** application/vnd.3gpp.5gnas

**headers:****Content-Id:****schema:**

**Type:** string

**'HsmfUpdateError':**

**Description:** unsuccessful update of a PDU session

**content:**

**application/json:** # message without binary body part

```

    schema:
      Reference: '#/components/schemas/HsmfUpdateError'
multipart/related: # message with binary body part(s)
  schema:
    Type: object
    Properties: # Request parts
    jsonData:
      Reference: '#/components/schemas/HsmfUpdateError'
    binaryDataN1SmInfoToUe:
      Type: string
      format: binary
  encoding:
    jsonData:
      contentType: application/json
    binaryDataN1SmInfoToUe:
      contentType: application/vnd.3gpp.5gnas
    headers:
      Content-Id:
        schema:
          Type: string
'VsmfUpdateError':
  Description: unsuccessful update of a PDU session
  content:
    application/json: # message without binary body part
    schema:
      Reference: '#/components/schemas/VsmfUpdateError'
multipart/related: # message with binary body part(s)
  schema:
    Type: object
    Properties: # Request parts
    jsonData:
      Reference: '#/components/schemas/VsmfUpdateError'
    binaryDataN1SmInfoFromUe:
      Type: string
      format: binary
    binaryDataUnknownN1SmInfo:
      Type: string
      format: binary
  encoding:
    jsonData:
      contentType: application/json
    binaryDataN1SmInfoFromUe:
      contentType: application/vnd.3gpp.5gnas
    headers:
      Content-Id:
        schema:
          Type: string
    binaryDataUnknownN1SmInfo:
      contentType: application/vnd.3gpp.5gnas
    headers:
      Content-Id:

```

```
schema:  
  Type: string
```