



Nsmf_PDUSession

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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info

Version: '1.0.0'

Title: 'Nsmf_PDUSession'

Description: 'SMF PDU Session Service'

externalDocs

Description: 3GPP TS 29.502 V15.2.1; 5G System; Session Management Services; Stage 3

URL: http://www.3gpp.org/ftp/Specs/archive/29_series/29.502/

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/smf-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

/sm-contexts/{smContextRef}/release:

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/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'

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:****maxFbrDI:****Reference:** 'TS29571_CommonData.yaml#/components/schemas/BitRate'**maxFbrUI:****Reference:** 'TS29571_CommonData.yaml#/components/schemas/BitRate'**guaFbrDI:****Reference:** 'TS29571_CommonData.yaml#/components/schemas/BitRate'**guaFbrUI:****Reference:** 'TS29571_CommonData.yaml#/components/schemas/BitRate'**notifControl:****Reference:** 'TS29571_CommonData.yaml#/components/schemas/NotificationControl'**maxPacketLossRateDI:****Reference:** 'TS29571_CommonData.yaml#/components/schemas/PacketLossRate'**maxPacketLossRateUI:****Reference:** 'TS29571_CommonData.yaml#/components/schemas/PacketLossRate'**required:**

- maxFbrDI

- maxFbrUI

- guaFbrDI

- guaFbrUI

QosFlowNotifItem:**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:

'PduSessionCreateError':

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':

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'

ProcedureTransactionId:

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

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

RequestType:

- 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

Cause:

- 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

N2SmlInfoType:**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

MaxIntegrityProtectedDataRate:

- 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

'VsmfUpdateError':

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

'VsmfUpdateError':