**3GPP TSG-CT3 Meeting #121e C3-222066**

**E-Meeting, 6th – 12th April 2022**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.508** | **CR** | **0173** | **rev** | **-** | **Current version:** | **17.6.0** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **x** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Formatting of description fields | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | SBIProtoc17 | | | | |  | ***Date:*** | | | 2022-03-30 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Formatting of description fields is not consistently applied along the OpenAPI file according to CommonMark Markdown formatting (see <https://spec.commonmark.org/0.27>). | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Update of the description fields to follow the guidelines specified in TS 29.501 (see [C4-220197](https://www.3gpp.org/ftp/tsg_ct/WG4_protocollars_ex-CN4/TSGCT4_107e-bis_meeting/Docs/C4-220197.zip) agreed in CT4 #107-bis-e meeting). | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The documentation of 3GPP OpenAPI descriptions, which is frequently generated automatically with tools from the YAML files, is not formatted as intended and gives an image of low quality documentation. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | A.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | | This CR introduces backward compatible correction to the OpenAPI file of the Nsmf\_EventExposure API. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\*\*\* First Change \*\*\*

# A.2 Nsmf\_EventExposure API

openapi: 3.0.0

info:

version: 1.2.0-alpha.5

title: Nsmf\_EventExposure

description: |

Session Management Event Exposure Service.

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externalDocs:

description: 3GPP TS 29.508 V17.6.0; 5G System; Session Management Event Exposure Service.

url: https://www.3gpp.org/ftp/Specs/archive/29\_series/29.508/

servers:

- url: '{apiRoot}/nsmf-event-exposure/v1'

variables:

apiRoot:

default: https://example.com

description: apiRoot as defined in subclause 4.4 of 3GPP TS 29.501

security:

- {}

- oAuth2ClientCredentials:

- nsmf-event-exposure

paths:

/subscriptions:

post:

operationId: CreateIndividualSubcription

summary: Create an individual subscription for event notifications from the SMF

tags:

- Subscriptions (Collection)

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'201':

description: Created.

headers:

Location:

description: >

Contains the URI of the newly created resource, according to the structure

{apiRoot}/nsmf-event-exposure/v1/subscriptions/{subId}

required: true

schema:

type: string

content:

application/json:

schema:

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

'400':

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

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29571\_CommonData.yaml#/components/responses/404'

'411':

$ref: 'TS29571\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29571\_CommonData.yaml#/components/responses/413'

'415':

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

'429':

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

'500':

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

'503':

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

default:

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

callbacks:

myNotification:

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

post:

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'204':

description: No Content, Notification was successful.

'307':

$ref: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

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

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29571\_CommonData.yaml#/components/responses/404'

'411':

$ref: 'TS29571\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29571\_CommonData.yaml#/components/responses/413'

'415':

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

'429':

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

'500':

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

'503':

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

default:

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

callbacks:

afAcknowledgement:

'{request.body#/ackUri}':

post:

requestBody: # contents of the callback message

required: true

content:

application/json:

schema:

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

responses:

'204':

description: No Content (successful acknowledgement)

'307':

$ref: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

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

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29571\_CommonData.yaml#/components/responses/404'

'411':

$ref: 'TS29571\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29571\_CommonData.yaml#/components/responses/413'

'415':

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

'429':

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

'500':

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

'503':

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

default:

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

/subscriptions/{subId}:

get:

operationId: GetIndividualSubcription

summary: Read an individual subscription for event notifications from the SMF

tags:

- IndividualSubscription (Document)

parameters:

- name: subId

in: path

description: Event Subscription ID

required: true

schema:

type: string

responses:

'200':

description: OK. Resource representation is returned

content:

application/json:

schema:

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

'307':

$ref: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

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

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29571\_CommonData.yaml#/components/responses/404'

'406':

$ref: 'TS29571\_CommonData.yaml#/components/responses/406'

'429':

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

'500':

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

'503':

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

default:

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

put:

operationId: ReplaceIndividualSubcription

summary: Replace an individual subscription for event notifications from the SMF

tags:

- IndividualSubscription (Document)

requestBody:

required: true

content:

application/json:

schema:

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

parameters:

- name: subId

in: path

description: Event Subscription ID

required: true

schema:

type: string

responses:

'200':

description: OK. Resource was successfully modified and representation is returned

content:

application/json:

schema:

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

'204':

description: No Content. Resource was successfully modified

'307':

$ref: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

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

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29571\_CommonData.yaml#/components/responses/404'

'411':

$ref: 'TS29571\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29571\_CommonData.yaml#/components/responses/413'

'415':

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

'429':

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

'500':

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

'503':

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

default:

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

delete:

operationId: DeleteIndividualSubcription

summary: Delete an individual subscription for event notifications from the SMF

tags:

- IndividualSubscription (Document)

parameters:

- name: subId

in: path

description: Event Subscription ID

required: true

schema:

type: string

responses:

'204':

description: No Content. Resource was successfully deleted

'307':

$ref: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

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

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29571\_CommonData.yaml#/components/responses/404'

'429':

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

'500':

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

'503':

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

default:

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

components:

securitySchemes:

oAuth2ClientCredentials:

type: oauth2

flows:

clientCredentials:

tokenUrl: '{nrfApiRoot}/oauth2/token'

scopes:

nsmf-event-exposure: Access to the Nsmf\_EventExposure API

schemas:

NsmfEventExposure:

description: >

Represents an Individual SMF Notification Subscription resource. The serviveName property

corresponds to the serviceName in the main body of the specification.

type: object

properties:

supi:

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

gpsi:

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

anyUeInd:

type: boolean

description: >

Any UE indication. This IE shall be present if the event subscription is applicable to

any UE. Default value "false" is used, if not present.

groupId:

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

pduSeId:

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

dnn:

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

snssai:

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

subId:

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

notifId:

type: string

description: Notification Correlation ID assigned by the NF service consumer.

notifUri:

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

altNotifIpv4Addrs:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv4Addr'

description: Alternate or backup IPv4 address(es) where to send Notifications.

minItems: 1

altNotifIpv6Addrs:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv6Addr'

description: Alternate or backup IPv6 address(es) where to send Notifications.

minItems: 1

altNotifFqdns:

type: array

items:

$ref: 'TS29510\_Nnrf\_NFManagement.yaml#/components/schemas/Fqdn'

minItems: 1

description: Alternate or backup FQDN(s) where to send Notifications.

eventSubs:

type: array

items:

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

minItems: 1

description: Subscribed events

eventNotifs:

type: array

items:

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

minItems: 1

ImmeRep:

type: boolean

notifMethod:

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

maxReportNbr:

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

expiry:

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

repPeriod:

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

guami:

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

serviveName:

$ref: 'TS29510\_Nnrf\_NFManagement.yaml#/components/schemas/ServiceName'

supportedFeatures:

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

sampRatio:

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

partitionCriteria:

type: array

items:

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

minItems: 1

description: Criteria for partitioning the UEs before applying the sampling ratio.

grpRepTime:

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

notifFlag:

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

required:

- notifId

- notifUri

- eventSubs

NsmfEventExposureNotification:

description: Represents notifications on events that occurred.

type: object

properties:

notifId:

type: string

description: Notification correlation ID

eventNotifs:

type: array

items:

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

minItems: 1

description: Notifications about Individual Events

ackUri:

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

required:

- notifId

- eventNotifs

EventSubscription:

description: Represents a subscription to a single event.

type: object

properties:

event:

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

dnaiChgType:

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

dddTraDescriptors:

type: array

items:

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

minItems: 1

dddStati:

type: array

items:

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

minItems: 1

appIds:

type: array

items:

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

minItems: 1

targetPeriod:

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

transacDispInd:

type: boolean

description: >

Indicates the subscription for UE transaction dispersion collectionon, if it is included

and set to "true". Default value is "false".

transacMetrics:

type: array

items:

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

description: Indicates Session Management Transaction metrics.

minItems: 1

ueIpAddr:

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

required:

- event

EventNotification:

description: Represents a notification related to a single event that occurred.

type: object

properties:

event:

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

timeStamp:

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

supi:

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

gpsi:

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

ueIpAddr:

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

transacInfos:

type: array

items:

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

description: Transaction Information.

minItems: 1

sourceDnai:

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

targetDnai:

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

dnaiChgType:

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

sourceUeIpv4Addr:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv4Addr'

sourceUeIpv6Prefix:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv6Prefix'

targetUeIpv4Addr:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv4Addr'

targetUeIpv6Prefix:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv6Prefix'

sourceTraRouting:

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

targetTraRouting:

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

ueMac:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/MacAddr48'

adIpv4Addr:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv4Addr'

adIpv6Prefix:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv6Prefix'

reIpv4Addr:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv4Addr'

reIpv6Prefix:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv6Prefix'

plmnId:

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

accType:

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

pduSeId:

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

ratType:

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

dddStatus:

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

dddTraDescriptor:

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

maxWaitTime:

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

commFailure:

$ref: 'TS29518\_Namf\_EventExposure.yaml#/components/schemas/CommunicationFailure'

ipv4Addr:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv4Addr'

ipv6Prefixes:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv6Prefix'

minItems: 1

ipv6Addrs:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv6Addr'

minItems: 1

pduSessType:

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

qfi:

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

appId:

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

ethfDescs:

type: array

items:

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

minItems: 1

maxItems: 2

fDescs:

type: array

items:

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

minItems: 1

maxItems: 2

dnn:

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

snssai:

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

ulDelays:

type: array

items:

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

minItems: 1

dlDelays:

type: array

items:

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

minItems: 1

rtDelays:

type: array

items:

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

minItems: 1

timeWindow:

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

smNasFromUe:

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

smNasFromSmf:

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

upRedTrans:

type: string

ssId:

type: string

bssId:

type: string

startWlan:

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

endWlan:

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

pduSessInfos:

type: array

items:

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

minItems: 1

upfInfo:

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

required:

- event

- timeStamp

SubId:

type: string

format: SubId

description: >

Identifies an Individual SMF Notification Subscription. To enable that the value is used as

part of a URI, the string shall only contain characters allowed according to the

"lower-with-hyphen" naming convention defined in 3GPP TS 29.501. In an OpenAPI schema,

the format shall be designated as "SubId".

AckOfNotify:

description: Represents an acknowledgement information of an event notification.

type: object

properties:

notifId:

type: string

ackResult:

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

supi:

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

gpsi:

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

required:

- notifId

- ackResult

SmNasFromUe:

description: >

Represents information on the SM NAS messages that SMF receives from UE for PDU Session.

type: object

properties:

smNasType:

type: string

timeStamp:

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

required:

- smNasType

- timeStamp

SmNasFromSmf:

description: >

Represents information on the SM congestion control applied SM NAS messages that SMF sends

to UE for PDU Session.

type: object

properties:

smNasType:

type: string

timeStamp:

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

backoffTimer:

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

appliedSmccType:

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

required:

- smNasType

- timeStamp

- backoffTimer

- appliedSmccType

TransactionInfo:

description: Represents SMF Transaction Information.

type: object

properties:

transaction:

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

snssai:

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

appIds:

type: array

items:

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

minItems: 1

transacMetrics:

type: array

items:

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

minItems: 1

required:

- transaction

PduSessionInformation:

description: Represents the PDU session related information.

type: object

properties:

pduSessId:

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

sessInfo:

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

PduSessionInfo:

description: Represents session information.

type: object

properties:

n4SessId:

type: string

sessInactiveTimer:

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

pduSessStatus:

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

UpfInformation:

description: Represents the ID/address/FQDN of the UPF.

type: object

properties:

upfId:

type: string

upfAddr:

$ref: 'TS29517\_Naf\_EventExposure.yaml#/components/schemas/AddrFqdn'

SmfEvent:

anyOf:

- type: string

enum:

- AC\_TY\_CH

- UP\_PATH\_CH

- PDU\_SES\_REL

- PLMN\_CH

- UE\_IP\_CH

- RAT\_TY\_CH

- DDDS

- COMM\_FAIL

- PDU\_SES\_EST

- QFI\_ALLOC

- QOS\_MON

- SMCC\_EXP

- DISPERSION

- RED\_TRANS\_EXP

- WLAN\_INFO

- UPF\_INFO

- 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:

- AC\_TY\_CH: Access Type Change

- UP\_PATH\_CH: UP Path Change

- PDU\_SES\_REL: PDU Session Release

- PLMN\_CH: PLMN Change

- UE\_IP\_CH: UE IP address change

- RAT\_TY\_CH: RAT Type Change

- DDDS: Downlink data delivery status

- COMM\_FAIL: Communication Failure

- PDU\_SES\_EST: PDU Session Establishment

- QFI\_ALLOC: QFI allocation

- QOS\_MON: QoS Monitoring

- SMCC\_EXP: SM congestion control experience for PDU Session

- DISPERSION: Session Management transaction dispersion

- RED\_TRANS\_EXP: Redundant transmission experience for PDU Session

- WLAN\_INFO: WLAN information on PDU session for which Access Type is NON\_3GPP\_ACCESS

and RAT Type is TRUSTED\_WLAN

- UPF\_INFO: The UPF information, including the UPF ID/address/FQDN information.

NotificationMethod:

anyOf:

- type: string

enum:

- PERIODIC

- ONE\_TIME

- ON\_EVENT\_DETECTION

- 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:

- PERIODIC

- ONE\_TIME

- ON\_EVENT\_DETECTION

AppliedSmccType:

anyOf:

- type: string

enum:

- DNN\_CC

- SNSSAI\_CC

description: >

This string indicates the applied SM congestion control.

- 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:

- DNN\_CC: Indicates the DNN based congestion control.

- SNSSAI\_CC: Indicates the S-NSSAI based congestion control.

TransactionMetric:

anyOf:

- type: string

enum:

- PDU\_SES\_EST

- PDU\_SES\_AUTH

- PDU\_SES\_MODIF

- PDU\_SES\_REL

- type: string

description: >

This string Indicates Session Management Transaction metrics.

description: |

Possible values are:

- PDU\_SES\_EST: PDU Session Establishment

- PDU\_SES\_AUTH: PDU Session Authentication

- PDU\_SES\_MODIF: PDU Session Modification

- PDU\_SES\_REL: PDU Session Release

PduSessionStatus:

anyOf:

- type: string

enum:

- ACTIVATED

- DEACTIVATED

- type: string

description: >

This string Indicates the status of the PDU Session.

description: |

Possible values are:

- ACTIVATED: PDU Session status is activated.

- DEACTIVATED: PDU Session status is deactivated.

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