**3GPP TSG- Meeting #**

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|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** |  | **rev** |  | **Current version:** |  |  |
|  | | | | | | | | |
| *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:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | , Huawei | | | | | | | | | |
| ***Source to TSG:*** | C3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eNetAE | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | |  |
|  | *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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The UE IP address has been added to the options for indicating the target UE of AF Event Exposure (for the purpose of supporting the DN Performance Data functionality) in 29.517, but the respective additions have not been performed in this API for the NEF-mediated case.  23.502 clause 5.2.19.2.2 indeed also includes the following **required** input for Naf\_EventExposure\_Subscribe (which is referenced for the inputs of Nnef\_EventExposure\_Subscribe for AF events in 23.502 clause 5.2.6.2.2):  "*Target of Event Reporting (either UE ID(s),* ***or UE IPv4 address(es), or UE IPv6 prefix(es)****, or Internal/External Group Identifier, or indication that any UE is targeted)*". | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Added the UE IP address to the possible target UE identifiers. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Not fulfilled stage 2 requirements. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.1.6.2.8, 5.1.8, 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 a backwards compatible feature in the OpenAPI file of the Nnef\_EventExposure API. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\* \* \* \* First change \* \* \* \*

5.1.6.2.8 Type TargetUeIdentification

**Table 5.1.6.2.8-1: Definition of type TargetUeIdentification**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute name** | **Data type** | **P** | **Cardinality** | **Description** | **Applicability** |
| supis | array(Supi) | O | 1..N | Each element identifies a SUPI for an UE. | ServiceExperience  Exceptions  UeMobility  UeCommunication  UserDataCongestion  Dispersion  MSQoeMetrics  MSConsumption  MSNetAssInvocation  MSDynPolicyInvocation  MSAccessActivity |
| interGroupIds | array(GroupId) | O | 1..N | Each element represents an internal group identifier which identifies a group of UEs. | ServiceExperience  Exceptions  UeMobility  UeCommunication  MSQoeMetrics  MSConsumption  MSNetAssInvocation  MSDynPolicyInvocation  MSAccessActivity |
| anyUeId | boolean | O | 0..1 | Identifies whether the request applies to any UE.  This attribute shall set to "true" if applicable for any UE, otherwise, set to "false". | ServiceExperience  Exceptions  UserDataCongestion |
| ueIpAddr | IpAddr | O | 0..1 | Identifies the UE IP address. | EnPerformanceData |
| NOTE: For an applicable feature, only one attribute identifying the target UE shall be provided. | | | | | |

\* \* \* \* Next change \* \* \* \*

5.1.8 Feature negotiation

The optional features in table 5.1.8-1 are defined for the Nnef\_EventExposure API. They shall be negotiated using the extensibility mechanism defined in clause 6.6 of 3GPP TS 29.500 [4].

**Table 5.1.8-1: Supported Features**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Feature number** | | **Feature Name** | | **Description** | |
| 1 | | ServiceExperience | | This feature indicates support for the "SVC\_EXPERIENCE" event. | |
| 2 | | UeMobility | | This feature indicates support for the "UE\_MOBILITY" event. | |
| 3 | | UeCommunication | | This feature indicates support for the "UE\_COMM" event. | |
| 4 | | Exceptions | | This feature indicates support for the "EXCEPTIONS" event. | |
| 5 | | ES3XX | | Extended Support for 3xx redirections. This feature indicates the support of redirection for any service operation, according to Stateless NF procedures as specified in clauses 6.5.3.2 and 6.5.3.3 of 3GPP TS 29.500 [4] and according to HTTP redirection principles for indirect communication, as specified in clause 6.10.9 of 3GPP TS 29.500 [4]. | |
| 6 | | EneNA | | This feature indicates support for the enhancements of network data analytics requirements. | |
| 7 | | UserDataCongestion | | This feature indicates support for the event related to User Data Congestion Analytics related information. | |
| 8 | | PerformanceData | | This feature indicates support for the event related to performance data information. | |
| 9 | | Dispersion | | This feature indicates support for the event related to Dispersion Analytics related information. | |
| 10 | | CollectiveBehaviour | | This feature indicates support of collective behaviour information associated with the UEs and its applications. | |
| 11 | | MSQoeMetrics | | This feature indicates support for the event related to Media Streaming QoE metrics for UE Application collected via the Data Collection AF. | |
| 12 | | MSConsumption | | This feature indicates support for the event related to Media Streaming Consumption reports for UE Application collected via the Data Collection AF. | |
| 13 | | MSNetAssInvocation | | This feature indicates support for the event related to Media Streaming Network Assistance invocation for UE Application collected via the Data Collection AF. | |
| 14 | | MSDynPolicyInvocation | | This feature indicates support for the event related to Media Streaming Dynamic Policy invocation for UE Application collected via the Data Collection AF. | |
| 15 | | MSAccessActivity | | This feature indicates support for the event related to Media Streaming access activity for UE Application collected via the Data Collection AF. | |
| 16 | | DataAccProfileId | | This feature indicates support for Data Access Profile Identifier. | |
| 17 | | GNSSAssistData | | This feature indicates the support of the GNSS Assistance Data Collection functionality. | |
| 18 | | UeMobility\_Ext | | This feature indicates support for further extensions to the event related to UE mobility supporting AIML including support of list of application service area collection. Supporting this feature also requires the support of feature UeMobility. | |
| 19 | | EnPerformanceData | | This feature indicates support for the enhancements of performance data. It requires the support of the PerformanceData feature. | |

\* \* \* \* Next change \* \* \* \*

A.2 Nnef\_EventExposure API

openapi: 3.0.0

info:

title: Nnef\_EventExposure

version: 1.3.0-alpha.2

description: |

NEF Event Exposure Service.

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externalDocs:

description: >

3GPP TS 29.591 V18.1.0; 5G System; Network Exposure Function Southbound Services; Stage 3.

url: https://www.3gpp.org/ftp/Specs/archive/29\_series/29.591/

servers:

- url: '{apiRoot}/nnef-eventexposure/v1'

variables:

apiRoot:

default: https://example.com

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

security:

- {}

- oAuth2ClientCredentials:

- nnef-eventexposure

paths:

/subscriptions:

post:

summary: subscribe to notifications

operationId: CreateIndividualSubcription

tags:

- Subscriptions (Collection)

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'201':

description: Success

content:

application/json:

schema:

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

headers:

Location:

description: >

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

{apiRoot}/nnef-eventexposure/<apiVersion>/subscriptions/{subscriptionId}

required: true

schema:

type: string

'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'

'502':

$ref: 'TS29571\_CommonData.yaml#/components/responses/502'

'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/NefEventExposureNotif'

responses:

'204':

description: No Content, Notification was succesfull

'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'

'502':

$ref: 'TS29571\_CommonData.yaml#/components/responses/502'

'503':

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

default:

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

/subscriptions/{subscriptionId}:

get:

summary: retrieve subscription

operationId: GetIndividualSubcription

tags:

- IndividualSubscription (Document)

parameters:

- name: subscriptionId

in: path

description: Event Subscription ID

required: true

schema:

type: string

- name: supp-feat

in: query

description: Features supported by the NF service consumer

required: false

schema:

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

responses:

'200':

description: OK. Resource representation is returned

content:

application/json:

schema:

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

'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'

'502':

$ref: 'TS29571\_CommonData.yaml#/components/responses/502'

'503':

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

default:

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

put:

summary: update subscription

operationId: ReplaceIndividualSubcription

tags:

- IndividualSubscription (Document)

requestBody:

required: true

content:

application/json:

schema:

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

parameters:

- name: subscriptionId

in: path

description: Event Subscription ID

required: true

schema:

type: string

responses:

'200':

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

content:

application/json:

schema:

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

'204':

description: No Content. Resource was succesfully 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'

'502':

$ref: 'TS29571\_CommonData.yaml#/components/responses/502'

'503':

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

default:

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

delete:

summary: unsubscribe from notifications

operationId: DeleteIndividualSubcription

tags:

- IndividualSubscription (Document)

parameters:

- name: subscriptionId

in: path

description: Event Subscription ID

required: true

schema:

type: string

responses:

'204':

description: No Content. Resource was succesfully 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'

'502':

$ref: 'TS29571\_CommonData.yaml#/components/responses/502'

'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:

nnef-eventexposure: Access to the Nnef\_EventExposure API

schemas:

NefEventExposureSubsc:

description: Represents an Individual Network Exposure Event Subscription resource.

type: object

properties:

dataAccProfId:

type: string

eventsSubs:

type: array

items:

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

minItems: 1

eventsRepInfo:

$ref: 'TS29523\_Npcf\_EventExposure.yaml#/components/schemas/ReportingInformation'

notifUri:

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

notifId:

type: string

eventNotifs:

type: array

items:

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

minItems: 1

suppFeat:

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

required:

- eventsSubs

- notifId

- notifUri

NefEventExposureNotif:

description: >

Represents notifications on network exposure event(s) that occurred for an Individual Network

Exposure Event Subscription resource.

type: object

properties:

notifId:

type: string

eventNotifs:

type: array

items:

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

minItems: 1

required:

- notifId

- eventNotifs

NefEventNotification:

description: Represents information related to an event to be reported.

type: object

properties:

event:

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

timeStamp:

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

svcExprcInfos:

type: array

items:

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

minItems: 1

ueMobilityInfos:

type: array

items:

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

minItems: 1

ueCommInfos:

type: array

items:

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

minItems: 1

excepInfos:

type: array

items:

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

minItems: 1

congestionInfos:

type: array

items:

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

minItems: 1

perfDataInfos:

type: array

items:

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

minItems: 1

dispersionInfos:

type: array

items:

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

minItems: 1

collBhvrInfs:

type: array

items:

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

minItems: 1

msQoeMetrInfos:

type: array

items:

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

minItems: 1

msConsumpInfos:

type: array

items:

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

minItems: 1

msNetAssInvInfos:

type: array

items:

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

minItems: 1

msDynPlyInvInfos:

type: array

items:

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

minItems: 1

msAccActInfos:

type: array

items:

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

minItems: 1

required:

- event

- timeStamp

NefEventSubs:

description: Represents an event to be subscribed and the related event filter information.

type: object

properties:

event:

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

eventFilter:

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

required:

- event

NefEventFilter:

description: Represents event filter information for an event.

type: object

properties:

tgtUe:

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

appIds:

type: array

items:

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

minItems: 1

locArea:

$ref: 'TS29554\_Npcf\_BDTPolicyControl.yaml#/components/schemas/NetworkAreaInfo'

collAttrs:

type: array

items:

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

minItems: 1

required:

- tgtUe

TargetUeIdentification:

description: Identifies the UE to which the request applies.

type: object

properties:

supis:

type: array

items:

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

minItems: 1

interGroupIds:

type: array

items:

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

minItems: 1

anyUeId:

type: boolean

ueIpAddr:

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

ServiceExperienceInfo:

description: Contains service experience information associated with an application.

type: object

properties:

appId:

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

supis:

type: array

items:

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

minItems: 1

svcExpPerFlows:

type: array

items:

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

minItems: 1

required:

- svcExpPerFlows

UeMobilityInfo:

description: >

Contains UE mobility information associated with an application. If the "appId" attribute is

not present, then indicates the collected UE mobility information is applicable to all the

applications for the UE.

type: object

properties:

supi:

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

appId:

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

ueTrajs:

type: array

items:

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

minItems: 1

areas:

type: array

items:

$ref: 'TS29554\_Npcf\_BDTPolicyControl.yaml#/components/schemas/NetworkAreaInfo'

minItems: 1

required:

- supi

- ueTrajs

UeCommunicationInfo:

description: Contains UE communication information associated with an application.

type: object

properties:

supi:

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

interGroupId:

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

appId:

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

comms:

type: array

items:

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

minItems: 1

required:

- comms

UeTrajectoryInfo:

description: Contains UE trajectory information.

type: object

properties:

ts:

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

location:

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

required:

- ts

- location

PerformanceDataInfo:

description: Contains Performance Data Analytics related information collection.

type: object

properties:

appId:

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

ueIpAddr:

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

ipTrafficFilter:

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

userLoc:

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

appLocs:

type: array

items:

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

minItems: 1

asAddr:

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

perfData:

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

timeStamp:

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

required:

- perfData

- timeStamp

# Simple data types and Enumerations

NefEvent:

description: Represents Network Exposure Events.

anyOf:

- type: string

enum:

- SVC\_EXPERIENCE

- UE\_MOBILITY

- UE\_COMM

- EXCEPTIONS

- USER\_DATA\_CONGESTION

- PERF\_DATA

- DISPERSION

- COLLECTIVE\_BEHAVIOUR

- MS\_QOE\_METRICS

- MS\_CONSUMPTION

- MS\_NET\_ASSIST\_INVOCATION

- MS\_DYN\_POLICY\_INVOCATION

- MS\_ACCESS\_ACTIVITY

- GNSS\_ASSISTANCE\_DATA

- 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.

\* \* \* \* End of changes \* \* \* \*