**3GPP TSG CT WG3 Meeting #135 *C3-243362***

**Hyderabad, IN, 27 - 31 May, 2024**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** | **1313** | **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 |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Missing target UE information | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Samsung, Ericsson | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | AIMLsys | | | | |  | ***Date:*** | | | 2024-05-20 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The target UE information is missing in the PATCH request for updating member selection assistance subscription. While this information is addressed when using HTTP PUT method used. So, target UE information should be supported by MemberUeSelectAssistSubscPatch data type, for the AF to be able to update the subscription resource partially. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Clause 5.32.3.2.15 MemberUeSelectAssistSubscPatch data type updated with target UE information. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Target UE information update is not supported for all scenrios. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.32.5.2.15, A.30 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  |  | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  |  | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  |  | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | | This CR proposes backward compatible correction to MemberUESelectionAssistance Open API specification file. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\*\*\* Start of Changes \*\*\*

##### 5.32.5.2.2 Type: MemUeSelectAssistSubsc

Table 5.32.5.2.2-1: Definition of type MemUeSelectAssistSubsc

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| afId | string | O | 0..1 | The AF Identifier. |  |
| tgtUeIds | array(Gpsi) | C | 1..N | Identifies the GPSIs of a list of UEs for Member UE Selection Assistance Reporting.  (NOTE 2) |  |
| tgtUeIps | array(IpAddr) | C | 1..N | Identifies the IP addresses of a list of UEs for Member UE Selection Assistance Reporting.  (NOTE 2) |  |
| addTgtUeIds | array(Gpsi) | C | 1..N | Identifies the GPSIs of a list of UEs to be added for Member UE Selection Assistance Reporting.  (NOTE 2) |  |
| addTgtUeIps | array(IpAddr) | C | 1..N | Identifies the IP addresses of a list of UEs to be added for Member UE Selection Assistance Reporting.  (NOTE 2) |  |
| deleTgtUeIds | array(Gpsi) | C | 1..N | Identifies the GPSIs of a list of UEs to be added for Member UE Selection Assistance Reporting.  (NOTE 2) |  |
| deleTgtUeIps | array(IpAddr) | C | 1..N | Identifies the IP addresses of a list of UEs to be added for Member UE Selection Assistance Reporting.  (NOTE 2) |  |
| notifUri | Uri | M | 1 | Notification URI for reporting. |  |
| notifId | string | M | 1 | Notification Correlation ID assigned by the AF. |  |
| qosFilters | array(QoSFilterCriteria) | C | 1..N | The QoS filtering criteria for Member UE selection.  (NOTE 1) |  |
| accRatTypeFilters | array(AccessRatTypeFilterCriteria) | C | 1..N | The Access types and Rat types filtering criteria for Member UE selection.  (NOTE 1) |  |
| e2eTransTimeFilters | array(E2ETransTimeFilterCriteria) | C | 1..N | The End-to-end data volume transfer time filtering criteria for Member UE selection.  (NOTE 1) |  |
| ueLocFilters | array(UeLocFilterCriteria) | C | 1..N | The UE location filtering criteria for Member UE selection.  (NOTE 1) |  |
| ueHisLocFilters | array(UeHisLocFilterCriteria) | C | 1..N | The UE historical location filtering criteria for Member UE selection.  (NOTE 1) |  |
| ueDirFilters | array(UeDirectionFilterCriteria) | C | 1..N | The UE direction filtering criteria for Member UE selection.  (NOTE 1) |  |
| ueDistanceFilters | array(UeDistanceFilterCriteria) | C | 1..N | The UE distance filtering criteria for Member UE selection.  (NOTE 1) |  |
| serviceExpFilters | array(ServiceExpFilterCriteria) | C | 1..N | The Service Experience filtering criteria for Member UE selection.  (NOTE 1) |  |
| dnnFilters | array(DnnFilterCriteria) | C | 1..N | The DNN filtering criteria for Member UE selection.  (NOTE 1) |  |
| memUpdatePeriod | DurationSec | O | 0..1 | Indicates the periodicity of updating the member UEs. |  |
| maxUeNum | Uinteger | O | 0..1 | The maximum number of candidate UEs. |  |
| timeWin | TimeWindow | O | 0..1 | Indicates the start time and stop time for selecting the candidate UEs. |  |
| expTime | DateTime | O | 0..1 | Indicates the expiry time. |  |
| suppFeat | SupportedFeatures | C | 0..1 | Indicates the list of Supported features used as described in clause 5.32.6.  This attribute shall be provided in the POST request and in the response of successful resource creation when feature negotiation needs to take place. |  |
| NOTE 1: At least one of the attribtues shall be present.  NOTE 2: Either the "tgtUeIds" or "tgtUeIps" attribute shall be present in the creation request. Either the "addTgtUeIds", "addTgtUeIps", "deleTgtUeIds" or "deleTgtUeIps" attribute may be present in the update request. | | | | | |

\*\*\* Next Change \*\*\*

##### 5.32.5.2.15 Type: MemUeSelectAssistSubscPatch

Table 5.32.5.2.15-1: Definition of type MemUeSelectAssistSubscPatch

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| notifUri | Uri | O | 0..1 | Notification URI for reporting. |  |
| notifId | string | O | 0..1 | Notification Correlation ID assigned by the AF. |  |
| addTgtUeIds | array(Gpsi) | O | 1..N | Identifies the GPSIs of a list of UEs to be added for Member UE Selection Assistance Reporting.  (NOTE) |  |
| attTgtUeIps | array(IpAddr) | O | 1..N | Identifies the IP addresses of a list of UEs to be added for Member UE Selection Assistance Reporting.  (NOTE) |  |
| deleTgtUeIds | array(Gpsi) | O | 1..N | Identifies the GPSIs of a list of UEs to be deleted for Member UE Selection Assistance Reporting.  (NOTE) |  |
| deleTgtUeIps | array(IpAddr) | O | 1..N | Identifies the IP addresses of a list of UEs to be deleted for Member UE Selection Assistance Reporting.  (NOTE) |  |
| qosFilters | array(QoSFilterCriteria) | O | 1..N | The QoS filtering criteria for Member UE selection. |  |
| accRatTypeFilters | array(AccessRatTypeFilterCriteria) | O | 1..N | The Access types and Rat types filtering criteria for Member UE selection. |  |
| e2eTransTimeFilters | array(E2ETransTimeFilterCriteria) | O | 1..N | The End-to-end data volume transfer time filtering criteria for Member UE selection. |  |
| ueLocFilters | array(UeLocFilterCriteria) | O | 1..N | The UE location filtering criteria for Member UE selection. |  |
| ueHisLocFilters | array(UeHisLocFilterCriteria) | O | 1..N | The UE historical location filtering criteria for Member UE selection. |  |
| ueDirFilters | array(UeDirectionFilterCriteria) | O | 1..N | The UE direction filtering criteria for Member UE selection. |  |
| ueDistanceFilters | array(UeDistanceFilterCriteria) | O | 1..N | The UE distance filtering criteria for Member UE selection. |  |
| serviceExpFilters | array(ServiceExpFilterCriteria) | O | 1..N | The Service Experience filtering criteria for Member UE selection. |  |
| dnnFilters | array(DnnFilterCriteria) | O | 1..N | The DNN filtering criteria for Member UE selection. |  |
| expTime | DateTime | O | 0..1 | Indicates the expiry time. |  |
| memUpdatePeriod | DurationSec | O | 0..1 | Indicates the periodicity of updating the member UEs. |  |
| maxUeNum | UintegerRm | O | 0..1 | The maximum number of candidate UEs. |  |
| timeWin | TimeWindow | O | 0..1 | Indicates the start time and stop time for selecting the candidate UEs. |  |
| NOTE: Either the "addTgtUeIds", "addTgtUeIps", "deleTgtUeIds" or "deleTgtUeIps" attribute may be present in the update request. | | | | | |

\*\*\* Next Change \*\*\*

A.30 MemberUESelectionAssistance API

openapi: 3.0.0

info:

title: 3gpp-musa

version: 1.0.0-alpha.3

description: |

API for Member UE Selection Assistance.

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externalDocs:

description: >

3GPP TS 29.522 V18.5.0; 5G System; Network Exposure Function Northbound APIs.

url: 'https://www.3gpp.org/ftp/Specs/archive/29\_series/29.522/'

servers:

- url: '{apiRoot}/3gpp-musa/v1'

variables:

apiRoot:

default: https://example.com

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

security:

- {}

- oAuth2ClientCredentials: []

paths:

/{afId}/subscriptions:

parameters:

- name: afId

in: path

description: Identifier of the AF

required: true

schema:

type: string

get:

summary: read all of the active subscriptions for the AF

operationId: ReadAllSubscriptions

tags:

- Member UE Selection Assistance Subscription

responses:

'200':

description: OK.

content:

application/json:

schema:

type: array

items:

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

'307':

$ref: 'TS29122\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29122\_CommonData.yaml#/components/responses/308'

'400':

$ref: 'TS29122\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29122\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29122\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29122\_CommonData.yaml#/components/responses/404'

'406':

$ref: 'TS29122\_CommonData.yaml#/components/responses/406'

'429':

$ref: 'TS29122\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29122\_CommonData.yaml#/components/responses/500'

'503':

$ref: 'TS29122\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29122\_CommonData.yaml#/components/responses/default'

post:

summary: Create a new subscription to Member UE Selection Assistance.

operationId: CreateMemberUESelectionAssistanceSubcription

tags:

- Member UE Selection Assistance Subscription

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'201':

description: Create a new Individual Member UE Selection Assistance Subscription resource.

content:

application/json:

schema:

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

headers:

Location:

description: >

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

{apiRoot}/3gpp-musa/v1/{afId}/subscriptions/{subscriptionId}.

required: true

schema:

type: string

'400':

$ref: 'TS29122\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29122\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29122\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29122\_CommonData.yaml#/components/responses/404'

'411':

$ref: 'TS29122\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29122\_CommonData.yaml#/components/responses/413'

'415':

$ref: 'TS29122\_CommonData.yaml#/components/responses/415'

'429':

$ref: 'TS29122\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29122\_CommonData.yaml#/components/responses/500'

'503':

$ref: 'TS29122\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29122\_CommonData.yaml#/components/responses/default'

callbacks:

notificationDestination:

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

post:

requestBody:

required: true

content:

application/json:

schema:

type: array

items:

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

minItems: 1

responses:

'204':

description: No Content, Notification was succesfull

'307':

$ref: 'TS29122\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29122\_CommonData.yaml#/components/responses/308'

'400':

$ref: 'TS29122\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29122\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29122\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29122\_CommonData.yaml#/components/responses/404'

'411':

$ref: 'TS29122\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29122\_CommonData.yaml#/components/responses/413'

'415':

$ref: 'TS29122\_CommonData.yaml#/components/responses/415'

'429':

$ref: 'TS29122\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29122\_CommonData.yaml#/components/responses/500'

'503':

$ref: 'TS29122\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29122\_CommonData.yaml#/components/responses/default'

/{afId}/subscriptions/{subscriptionId}:

parameters:

- name: afId

in: path

description: Identifier of the AF.

required: true

schema:

type: string

- name: subscriptionId

in: path

description: Identifier of the subscription resource.

required: true

schema:

type: string

get:

summary: Read an active subscription identified by the subscriptionId.

operationId: ReadSubscription

tags:

- Individual Member UE Selection Assistance Subscription

responses:

'200':

description: OK (Successful get the active subscription).

content:

application/json:

schema:

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

'307':

$ref: 'TS29122\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29122\_CommonData.yaml#/components/responses/308'

'400':

$ref: 'TS29122\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29122\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29122\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29122\_CommonData.yaml#/components/responses/404'

'406':

$ref: 'TS29122\_CommonData.yaml#/components/responses/406'

'429':

$ref: 'TS29122\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29122\_CommonData.yaml#/components/responses/500'

'503':

$ref: 'TS29122\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29122\_CommonData.yaml#/components/responses/default'

put:

summary: Update/Replace an existing subscription resource.

operationId: UpdateSubscription

tags:

- Individual Member UE Selection Assistance Subscription

requestBody:

description: Parameters to replace the existing subscription.

required: true

content:

application/json:

schema:

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

responses:

'200':

description: OK (Successful update of the subscription).

content:

application/json:

schema:

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

'204':

description: No Content.

'307':

$ref: 'TS29122\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29122\_CommonData.yaml#/components/responses/308'

'400':

$ref: 'TS29122\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29122\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29122\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29122\_CommonData.yaml#/components/responses/404'

'411':

$ref: 'TS29122\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29122\_CommonData.yaml#/components/responses/413'

'415':

$ref: 'TS29122\_CommonData.yaml#/components/responses/415'

'429':

$ref: 'TS29122\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29122\_CommonData.yaml#/components/responses/500'

'503':

$ref: 'TS29122\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29122\_CommonData.yaml#/components/responses/default'

patch:

summary: Modifyan existing subscription resource

operationId: ModifySubscription

tags:

- Individual Traffic Influence Subscription

requestBody:

required: true

content:

application/merge-patch+json:

schema:

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

responses:

'200':

description: OK. The subscription was modified successfully.

content:

application/json:

schema:

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

'204':

description: No Content.

'307':

$ref: 'TS29122\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29122\_CommonData.yaml#/components/responses/308'

'400':

$ref: 'TS29122\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29122\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29122\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29122\_CommonData.yaml#/components/responses/404'

'411':

$ref: 'TS29122\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29122\_CommonData.yaml#/components/responses/413'

'415':

$ref: 'TS29122\_CommonData.yaml#/components/responses/415'

'429':

$ref: 'TS29122\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29122\_CommonData.yaml#/components/responses/500'

'503':

$ref: 'TS29122\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29122\_CommonData.yaml#/components/responses/default'

delete:

summary: Delete an existing subscription.

operationId: DeleteSubscription

tags:

- Individual Member UE Selection Assistance Subscription

responses:

'204':

description: No Content (Successful deletion of the existing subscription)

'307':

$ref: 'TS29122\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29122\_CommonData.yaml#/components/responses/308'

'400':

$ref: 'TS29122\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29122\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29122\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29122\_CommonData.yaml#/components/responses/404'

'429':

$ref: 'TS29122\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29122\_CommonData.yaml#/components/responses/500'

'503':

$ref: 'TS29122\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29122\_CommonData.yaml#/components/responses/default'

components:

securitySchemes:

oAuth2ClientCredentials:

type: oauth2

flows:

clientCredentials:

tokenUrl: '{nrfApiRoot}/oauth2/token'

scopes: {}

schemas:

MemUeSelectAssistSubsc:

description: Represents an Member UE Selection Assistance Subscription.

type: object

properties:

afId:

type: string

description: The AF Identifier.

tgtUeIds:

type: array

items:

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

minItems: 1

description: >

Identifies the GPSIs of a list of UEs for Member UE Selection Assistance Reporting.

tgtUeIps:

type: array

items:

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

minItems: 1

description: >

Identifies the IP addresses of a list of UEs for Member UE Selection Assistance

Reporting.

addTgtUeIds:

type: array

items:

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

minItems: 1

description: >

Identifies the GPSIs of a list of UEs to be added for Member UE Selection Assistance

Reporting.

addTgtUeIps:

type: array

items:

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

minItems: 1

description: >

Identifies the IP addresses of a list of UEs to be added for Member UE Selection

Assistance Reporting.

notifUri:

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

notifId:

type: string

expTime:

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

qosFilters:

type: array

items:

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

minItems: 1

description: The QoS filtering criteria for Member UE selection.

accRatTypeFilters:

type: array

items:

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

minItems: 1

description: The Access types and Rat types filtering criteria for Member UE selection.

e2eTransTimeFilters:

type: array

items:

$ref: '#/components/schemas/E2ETransTimeFilterCriteria'

minItems: 1

description: >

The End-to-end data volume transfer time filtering criteria for Member UE selection.

ueLocFilters:

type: array

items:

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

minItems: 1

description: The UE location filtering criteria for Member UE selection.

ueHisLocFilters:

type: array

items:

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

minItems: 1

description: The UE historical location filtering criteria for Member UE selection.

ueDirFilters:

type: array

items:

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

minItems: 1

description: The UE direction filtering criteria for Member UE selection.

ueDistanceFilters:

type: array

items:

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

minItems: 1

description: The UE distance filtering criteria for Member UE selection.

serviceExpFilters:

type: array

items:

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

minItems: 1

description: The Service Experience filtering criteria for Member UE selection.

dnnFilters:

type: array

items:

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

minItems: 1

description: The DNN filtering criteria for Member UE selection.

memUpdatePeriod:

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

maxUeNum:

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

timeWin:

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

suppFeat:

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

required:

- notifUri

- notifId

oneOf:

- required: [tgtUeIds]

- required: [tgtUeIps]

anyOf:

- required: [qosFilters]

- required: [accRatTypeFilters]

- required: [e2eTransTimeFilters]

- required: [ueLocFilters]

- required: [ueHisLocFilters]

- required: [ueDirFilters]

- required: [ueDistanceFilters]

- required: [serviceExpFilters]

- required: [dnnFilters]

QoSFilterCriteria:

description: The QoS filtering criteria for Member UE selection.

type: object

properties:

event:

$ref: 'TS29508\_Nsmf\_EventExposure.yaml#/components/schemas/SmfEvent'

appId:

type: string

description: Identifies an application.

dnn:

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

snssai:

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

ulDelay:

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

dlDelay:

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

rtDelay:

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

AccessRatTypeFilterCriteria:

description: The Access types and Rat types filtering criteria for Member UE selection.

type: object

properties:

events:

type: array

items:

$ref: 'TS29508\_Nsmf\_EventExposure.yaml#/components/schemas/SmfEvent'

minItems: 1

description: >

Indicates the SMF event(s) which may be used to retrieve the Access Type and/or RAT Type

of the selected UE.

dnn:

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

snssai:

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

accTypes:

type: array

items:

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

minItems: 1

description: Indicates the Access Types of the selected UE.

ratTypes:

type: array

items:

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

minItems: 1

description: Indicate the RAT Types of the selected UE.

E2ETransTimeFilterCriteria:

description: >

The End-to-end data volume transfer time filtering criteria for Member UE selection.

type: object

properties:

event:

$ref: 'TS29520\_Nnwdaf\_EventsSubscription.yaml#/components/schemas/NwdafEvent'

appId:

type: string

description: Identifies an application.

dnn:

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

snssai:

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

dataVolTransTime:

$ref: 'TS29520\_Nnwdaf\_EventsSubscription.yaml#/components/schemas/DataVolumeTransferTime'

geoDistrInfos:

type: array

items:

$ref: 'TS29520\_Nnwdaf\_EventsSubscription.yaml#/components/schemas/GeoDistributionInfo'

minItems: 1

locationArea:

$ref: 'TS29122\_CommonData.yaml#/components/schemas/LocationArea5G'

numDataTrans:

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

timeInterval:

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

UeLocFilterCriteria:

description: The UE location filtering criteria for Member UE selection.

type: object

properties:

event:

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

loc:

$ref: 'TS29122\_CommonData.yaml#/components/schemas/LocationArea5G'

UeHisLocFilterCriteria:

description: The UE historical location filtering criteria for Member UE selection.

type: object

properties:

event:

$ref: 'TS29520\_Nnwdaf\_EventsSubscription.yaml#/components/schemas/NwdafEvent'

loc:

$ref: 'TS29122\_CommonData.yaml#/components/schemas/LocationArea5G'

UeDirectionFilterCriteria:

description: The UE direction filtering criteria for Member UE selection.

type: object

properties:

event:

$ref: 'TS29520\_Nnwdaf\_EventsSubscription.yaml#/components/schemas/NwdafEvent'

directions:

type: array

items:

$ref: 'TS29520\_Nnwdaf\_EventsSubscription.yaml#/components/schemas/Direction'

minItems: 1

description: Indicates the moving directions of the UEs.

UeDistanceFilterCriteria:

description: The UE distance filtering criteria for Member UE selection.

type: object

properties:

event:

$ref: 'TS29520\_Nnwdaf\_EventsSubscription.yaml#/components/schemas/NwdafEvent'

distance:

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

ServiceExpFilterCriteria:

description: The Service Experience filtering criteria for Member UE selection.

type: object

properties:

event:

$ref: 'TS29520\_Nnwdaf\_EventsSubscription.yaml#/components/schemas/NwdafEvent'

dnn:

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

snssai:

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

appId:

type: string

description: Identifies an application.

dnai:

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

loc:

$ref: 'TS29122\_CommonData.yaml#/components/schemas/LocationArea5G'

contribWeightThr:

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

expTypes:

type: array

items:

$ref: 'TS29520\_Nnwdaf\_EventsSubscription.yaml#/components/schemas/ServiceExperienceType'

minItems: 1

description: Indicates the Service Experience Types.

DnnFilterCriteria:

description: The DNN filtering criteria for Member UE selection.

type: object

properties:

event:

$ref: 'TS29508\_Nsmf\_EventExposure.yaml#/components/schemas/SmfEvent'

dnn:

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

MemUeSeletAssistNotif:

description: Represents a Member UE Selection Assistance notification.

type: object

properties:

notifId:

type: string

candiUeInfos:

type: array

items:

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

minItems: 1

description: >

Identifies the lists of candidate UEs information for Member Selection Assistance

Reporting.

memUeSelectRpts:

type: array

items:

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

minItems: 1

description: Identifies the list of UEs for Member Selection Assistance Reporting.

required:

- notifId

- candiUeInfos

MemUeSeletReport:

description: Indicates the Member UE selection report.

type: object

properties:

criterionType:

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

numForCriterion:

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

required:

- criterionType

- numForCriterion

CandiUeInfo:

description: Identifies the list of candidate UEs information.

type: object

properties:

candUeIds:

type: array

items:

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

minItems: 1

candUeIps:

type: array

items:

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

minItems: 1

remdTimeWin:

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

oneOf:

- required: [candUeIds]

- required: [candUeIps]

MemUeSelectAssistSubscPatch:

description: Represents an Member UE Selection Assistance Subscription.

type: object

properties:

notifUri:

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

notifId:

type: string

expTime:

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

addTgtUeIds:

type: array

items:

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

minItems: 1

description: >

Identifies the GPSIs of a list of UEs to be added for Member UE Selection Assistance

Reporting.

addTgtUeIps:

type: array

items:

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

minItems: 1

description: >

Identifies the IP addresses of a list of UEs to be added for Member UE Selection

Assistance Reporting.

deleTgtUeIds:

type: array

items:

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

minItems: 1

description: >

Identifies the GPSIs of a list of UEs to be deleted for Member UE Selection Assistance

Reporting.

deleTgtUeIps:

type: array

items:

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

minItems: 1

description: >

Identifies the IP addresses of a list of UEs to be deleted for Member UE Selection

Assistance Reporting.

qosFilters:

type: array

items:

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

minItems: 1

description: The QoS filtering criteria for Member UE selection.

accRatTypeFilters:

type: array

items:

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

minItems: 1

description: The Access types and Rat types filtering criteria for Member UE selection.

e2eTransTimeFilters:

type: array

items:

$ref: '#/components/schemas/E2ETransTimeFilterCriteria'

minItems: 1

description: >

The End-to-end data volume transfer time filtering criteria for Member UE selection.

ueLocFilters:

type: array

items:

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

minItems: 1

description: The UE location filtering criteria for Member UE selection.

ueHisLocFilters:

type: array

items:

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

minItems: 1

description: The UE historical location filtering criteria for Member UE selection.

ueDirFilters:

type: array

items:

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

minItems: 1

description: The UE direction filtering criteria for Member UE selection.

ueDistanceFilters:

type: array

items:

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

minItems: 1

description: The UE distance filtering criteria for Member UE selection.

serviceExpFilters:

type: array

items:

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

minItems: 1

description: The Service Experience filtering criteria for Member UE selection.

dnnFilters:

type: array

items:

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

minItems: 1

description: The DNN filtering criteria for Member UE selection.

memUpdatePeriod:

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

maxUeNum:

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

timeWin:

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

nullable: true

oneOf:

- required: [tgtUeIds]

- required: [tgtUeIps]

FilterCriterionType:

anyOf:

- type: string

enum:

- QOS

- ACCESS\_RAT\_TYPE

- E2E\_DATA\_VOLUME\_TRANSFER\_TIME

- UE\_LOCATION

- UE\_HISTORICAL\_LOCATION

- UE\_DIRECTION

- UE\_DISTANCE

- SERVICE\_EXPERIENCE

- DNN

- type: string

description: >

This string provides forward-compatibility with future extensions to the enumeration and

is not used to encode content defined in the present version of this API.

description: |

Represents the filter criterion event

Possible values are:

- QOS: Indicates QoS criterion.

- ACCESS\_RAT\_TYPE: Indicates Access and Rat types criterion.

- E2E\_DATA\_VOLUME\_TRANSFER\_TIME: Indicates End-to-end data volume transfer time criterion.

- UE\_LOCATION: Indicates UE location criterion.

- UE\_HISTORICAL\_LOCATION: Indicates UE historical location criterion.

- UE\_DIRECTION: Indicates UE direction criterion.

- UE\_DISTANCE: Indicates UE distance criterion.

- SERVICE\_EXPERIENCE: Indicates the Service Experience criterion.

- DNN: Indicates the DNN criterion.

\*\*\* End of Change \*\*\*