**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 canbe 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 \*\*\*