**3GPP TSG-CT WG3 Meeting #142 *C3-253xxx***

**Gothenburg, SE, 25 - 29 August 2025 was *C3-253159***

|  |
| --- |
| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **29.549** | **CR** | **0437** | **rev** | **1** | **Current version:** | **19.3.0** |  |
|  |
| *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:***  |  |
|  |  |
| ***Source to WG:*** | CATT |
| ***Source to TSG:*** | C3 |
|  |  |
| ***Work item code:*** | eLSAPP |  | ***Date:*** | 2025-08-25 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-19 |
|  | *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:*** | SA6 agreed to update the parameters of "SL positioning management subscription request" in clause 9.3.2.61 of 23.434, including:1/ Update the description of IE "VAL UE selection criteria" IE.2/ Remove the "Reporting configuration" IE.3/ Update the "SL positioning parameters" IE.Also the parameters of "SL positioning management notification" was updated in clause 9.3.2.63 of 23.434, including:1/ Update the "Reference and target UE ID(s) and address" IE.2/ Add the "Reported SL positioning parameters" IE.3/ Remove the "List of Client UE IDs and addresses", "Triggering event" and "Reason" IEs.The left ENs can be solved and removed. |
|  |  |
| ***Summary of change:*** | Update the API description and OpenAPI according to above clarifications.Remove the ENs. |
|  |  |
| ***Consequences if not approved:*** | Mis-alignment with Stage 2 requirements and ENs left. |
|  |  |
| ***Clauses affected:*** | 7.1.6.6.1, 7.1.6.6.2.2, 7.1.6.6.2.3, 7.1.6.6.2.4, 7.1.6.6.2.10(new), 7.1.6.6.3.4, 7.1.6.6.3.5, A.27 |
|  |  |
|  | **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 following APIs:TS29549\_SS\_SLPositioningManagement.yaml |
|  |  |
| ***This CR's revision history:*** |  |

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

##### 7.1.6.6.1 General

This clause specifies the application data model supported by the API.

Table 7.1.6.6.1-1 specifies the data types defined for the SS\_SLPositioningManagement API.

Table 7.1.6.6.1-1: SS\_SLPositioningManagement API specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Section defined | Description | Applicability |
| SlPositionMgmtSubsc | 7.1.6.6.2.2 | Represents the SL Positioning Management subscription information. |  |
| SlPositionMgmtSubscPatch | 7.1.6.6.2.3 | Represents the update in the SL Positioning Management subscription. |  |
| SlPositionMgmtNotif | 7.1.6.6.2.4 | Represents the SL Positioning Management notification. |  |
| SlPosMgmtParam | 7.1.6.6.2.10 | Represents the SL Positioning Management parameters. |  |
| SlPosMgmtMetric | 7.1.6.6.3.4 | Represents the SL Positioning Management metric. |  |
|  |  |  |  |
| SrPosInfoReq | 7.1.6.6.2.6 | Represents the SR Positioning Information Request. |  |
| SrPosFilter | 7.1.6.6.3.6 | Represents the requested SR based positioning information filters. |  |
| SrPosInfoResp | 7.1.6.6.2.7 | Represents the SR Positioning Information Response. |  |
| SrUeList | 7.1.6.6.2.8 | Represents the list of UE identities of SR based positioning. |  |
| SrPosInfo | 7.1.6.6.2.9 | Represents the SR based positioning information. |  |
| ValUeInfo | 7.1.6.6.2.5 | Represents the Val UE and its address information. |  |
| ValUeSel | 7.1.6.6.3.5 | Represents VAL UE(s) selection criteria for SL Positioning management. |  |

Table 7.1.6.6.1-2 specifies data types re-used by the SS\_SLPositioningManagement API service.

Table 7.1.6.6.1-2: SS\_SLPositioningManagement API re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| 2DRelativeLocation | 3GPP TS 29.572 [31] | Represents 2D local co-ordinates with origin corresponding to another known point. |  |
| 3DRelativeLocation | 3GPP TS 29.572 [31] | Represents 3D local co-ordinates with origin corresponding to another known point. |  |
| DurationSec | 3GPP TS 29.122 [3] | Represents a time duration in units of seconds. |  |
| LocationArea5G | 3GPP TS 29.122 [3] | Represents location information. |  |
| LocationQoS | 3GPP TS 29.572 [31] | Represents the location QoS. |  |
| RangeDirection | 3GPP TS 29.572 [31] | Represents the distance and direction between two points. |  |
| RelativeVelocityWithUncertainty | 3GPP TS 29.572 [31] | Represents relative velocity with uncertainty. |  |
| ReportingInformation | 3GPP TS 29.523 [20] | Used to indicate the reporting requirement, only the following information are applicable for LM Server. |  |
| SupportedFeatures | 3GPP TS 29.571 [21] | Used to negotiate the applicability of optional features defined in table 7.1.4.6-1. |  |
| Uri | 3GPP TS 29.122 [3] | Used to indicate the notification URI. |  |
| ValServiceArea | Clause 7.1.3.4.2.2 | Represents the VAL service area. |  |
| ValTargetUe | Clause 7.3.1.4.2.3 | Used to indicate either VAL User ID or VAL UE ID, to which location reporting applies. |  |
| ValUeAddrInfo | Clause 7.4.1.4.2.30 | Represents VAL UE address information. |  |

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

###### 7.1.6.6.2.2 Type: SlPositionMgmtSubsc

Table 7.1.6.6.2.2-1: Definition of type SlPositionMgmtSubsc

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| valSvcId | string | M | 1 | Contains the identifier of the target VAL service of the VAL application for which the subscription applies. |  |
| tgtUes | array(ValTargetUe) | C | 1..N | Contains the list of the identifier(s) of the VAL User(s) or the list of the identifier(s) of the VAL UE(s) for which the subscription applies.(NOTE) |  |
| valServArea | LocationArea5G | C | 0..1 | Contains the VAL Service Area for which the subscription applies.(NOTE) |  |
| slPosMgmtParams | SlPosMgmtParam | O | 0..1 | Contains the requested SL Positioning parameters. |  |
| valUeSel | array(ValUeSel) | O | 1..N | Contains the list of the VAL UE(s) selection criteria. |  |
|  |  |  |  |  |  |
| notifUri | Uri | M | 1 | Contains the URI via which notifications shall be delivered. |  |
| suppFeat | SupportedFeatures | C | 0..1 | Contains the list of supported feature(s) among the ones defined in clause 7.1.6.8.This attribute shall be present only when feature negotiation is required. |  |
| NOTE: At least one of these attributes shall be present. |

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

###### 7.1.6.6.2.3 Type: SlPositionMgmtSubscPatch

Table 7.1.6.6.2.3-1: Definition of type SlPositionMgmtSubscPatch

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| tgtUes | array(ValTargetUe) | O | 1..N | Contains the either the list of the identifier(s) of the VAL User(s) or the list of the identifier(s) of the VAL UE(s) for which subscription applies. |  |
| valServArea | LocationArea5G | O | 0..1 | Contains the VAL Service Area for which the subscription applies. |  |
| slPosMgmtParams | SlPosMgmtParam | O | 0..1 | Contains the requested SL Positioning parameters.  |  |
| valUeSel | array(ValUeSel) | O | 1..N | Contains the list of the VAL UE(s) selection criteria. |  |
|  |  |  |  |  |  |
| notifUri | Uri | O | 0..1 | Contains the URI via which notifications shall be delivered. |  |

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

###### 7.1.6.6.2.4 Type: SlPositionMgmtNotif

Table 7.1.6.6.2.4-1: Definition of type SlPositionMgmtNotif

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| subscId | string | M | 0..1 | Contains the identifier of the subscription to which the notification is related. |  |
| refUes | array(ValUeInfo) | C | 1..N | Contains the Val UE(s) that are identified as the Reference UE(s).This attribute shall be present only if reference UE(s) is/are subscribed and discovered by the LMS. |  |
| tgtUes | array(ValUeInfo) | C | 1..N | Contains the Val UE(s) that are identified as the Target UE(s).This attribute shall be present only if target UE(s) is/are subscribed and discovered by the LMS. |  |
| SlPosMgmtParamResp | map(map(RangeDirection)) | C | 1..N(1..M) | Contains one or several set(s) of distance and/or direction information between Reference UE(s) and Target UE(s).The key of the external map is the identifier of the Reference UE for which the provided map value applies.The key of the internal map is the identifier of the Target UE for which the provided map value applies.This attribute shall be present only if SL Positioning parameters are requested in the corresponding subscription. |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

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

###### 7.1.6.6.2.10 Type: SlPosMgmtParam

Table 7.1.6.6.2.10-1: Definition of type SlPosMgmtParam

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| reqMetric | SlPosMgmtMetric | M | 1 | Contains the requested SL Positioning Management metric. |  |

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

###### 7.1.6.6.3.4 Enumeration: SlPosMgmtMetric

Table 7.1.6.6.3.4-1: Enumeration SlPosMgmtMetric

|  |  |  |
| --- | --- | --- |
| Enumeration value | Description | Applicability |
| DISTANCE | Indicates that the SL Positioning Management metric is distance. |  |
| DIRECTION | Indicates that the SL Positioning Management metric is direction. |  |
| DISTANCE\_DIRECTION | Indicates that the SL Positioning Management metric is both distance and direction. |  |

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

###### 7.1.6.6.3.5 Enumeration: ValUeSel

Table 7.1.6.6.3.5-1: Enumeration ValUeSel

|  |  |  |
| --- | --- | --- |
| Enumeration value | Description | Applicability |
| REF\_UE | Indicates that the selection criteria of UE role is Reference UE. |  |
| TARGET\_UE | Indicates that the selection criteria of UE role is Target UE. |  |
|  |  |  |

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

# A.27 SS\_SLPositioningManagement API

openapi: 3.0.0

info:

 title: SS\_SLPositioningManagement

 version: 1.0.0-alpha.2

 description: |

 API for SEAL SL Positioning management Service.

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externalDocs:

 description: >

 3GPP TS 29.549 V19.3.0 Service Enabler Architecture Layer for Verticals (SEAL);

 Application Programming Interface (API) specification; Stage 3.

 url: https://www.3gpp.org/ftp/Specs/archive/29\_series/29.549/

servers:

 - url: '{apiRoot}/ss-slpm/v1'

 variables:

 apiRoot:

 default: https://example.com

 description: apiRoot as defined in clause 6.5 of 3GPP TS 29.549

security:

 - {}

 - oAuth2ClientCredentials: []

paths:

 /subscriptions:

 post:

 summary: Create individual SL Positioning Management subscription.

 operationId: SubscribeSlPositionMgmt

 tags:

 - SL Positioning Management Subscriptions (Collection)

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '201':

 description: >

 The requested individual SL Positioning MAnagement subscription

 resource is successfully created and a representation of the created

 resource is returned in the response body.

 content:

 application/json:

 schema:

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

 headers:

 Location:

 description: Contains the URI of the newly created resource.

 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:

 SlPositionMgmtNotif:

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

 post:

 summary: Notify on changes of the SL Positioning Management according to the

 requested reporting settings.

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '204':

 description: The notification is successfully received.

 '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'

 /subscriptions/{subscriptionId}:

 get:

 summary: Read an existing individual SL Positioning Management subscription resource

 according to the subscriptionId.

 operationId: ReadSlPositioningMgmtSubscription

 tags:

 - Individual SL Positioning Management Subscription (Document)

 parameters:

 - name: subscriptionId

 in: path

 description: >

 Represents the identifier of an individual SL Positioning Management

 subscription resource.

 required: true

 schema:

 type: string

 responses:

 '200':

 description: The requested individual SL Positioning Management subscription returned.

 content:

 application/json:

 schema:

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

 '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 an individual SL Positioning Management subscription identified by the

 subscriptionId.

 operationId: UpdateSlPositionMgmt

 tags:

 - Individual Unicast SL Positioning Management Subscription (Document)

 parameters:

 - name: subscriptionId

 in: path

 description: >

 Represents the identifier of an individual unicast monitoring subscription resource.

 required: true

 schema:

 type: string

 requestBody:

 description: Updated details of the unicast QoS monitoring subscription.

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '200':

 description: >

 The subscription is updated successfully, and the updated subscription

 information returned in the response.

 content:

 application/json:

 schema:

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

 '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: >

 Modify an individual SL Positioning Management subscription identified

 by the subscriptionId.

 operationId: ModifySlPositionMgmt

 tags:

 - Individual SL Positioning Management Subscription (Document)

 parameters:

 - name: subscriptionId

 in: path

 description: >

 Represents the identifier of an individual SL Positioning Management

 subscription resource.

 required: true

 schema:

 type: string

 requestBody:

 required: true

 content:

 application/merge-patch+json:

 schema:

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

 responses:

 '200':

 description: >

 Individual individual SL Position Management resource is modified

 successfully and representation of the modified individual SL Positioning Management

 resource

 subscription resource is returned.

 content:

 application/json:

 schema:

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

 '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: Remove an existing individual SL Positioning Management resource according to

 the subscriptionId.

 operationId: UnsubscribeSlPositionMgmt

 tags:

 - Individual SL Positioning Management Subscription (Document)

 parameters:

 - name: subscriptionId

 in: path

 description: >

 Represents the identifier of an individual SL Positioning Management

 subscription resource.

 required: true

 schema:

 type: string

 responses:

 '204':

 description: >

 The Individual SL Positioning Management Subscription resource matching the

 subscriptionId is deleted.

 '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'

 /request-srp:

 post:

 summary: Enables a service consumer to request SR positioning information.

 operationId: RequestSRPosInfo

 tags:

 - SR Positioning Information Request

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '200':

 description: >

 OK. The Positioning Information Request is successfully received and processed, and the

 requested SR based positioning information is returned in the response body.

 content:

 application/json:

 schema:

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

 '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'

components:

 securitySchemes:

 oAuth2ClientCredentials:

 type: oauth2

 flows:

 clientCredentials:

 tokenUrl: '{tokenUrl}'

 scopes: {}

 schemas:

 SlPositionMgmtSubsc:

 description: Indicate the SL Positioning Management subscription.

 type: object

 properties:

 valSvcId:

 type: string

 description: Identity of the VAL service

 tgtUes:

 type: array

 items:

 $ref: 'TS29549\_SS\_UserProfileRetrieval.yaml#/components/schemas/ValTargetUe'

 minItems: 1

 description: List of VAL Users or UE IDs for which SL location management is requested.

 valServArea:

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

 slPosMgmtParams:

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

 valUeSel:

 type: array

 items:

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

 minItems: 1

 notifUri:

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

 suppFeat:

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

 required:

 - notifUri

 - valSvcId

 SlPositionMgmtSubscPatch:

 description: Indicate the SL Positioning Management subscription update.

 type: object

 properties:

 tgtUes:

 type: array

 items:

 $ref: 'TS29549\_SS\_UserProfileRetrieval.yaml#/components/schemas/ValTargetUe'

 minItems: 1

 description: List of VAL Users or UE IDs for which SL location management is requested.

 valServArea:

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

 slPosMgmtParams:

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

 valUeSel:

 type: array

 items:

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

 minItems: 1

 notifUri:

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

 SlPositionMgmtNotif:

 description: SL Positioning Management notification.

 type: object

 properties:

 subscId:

 type: string

 description: Subscription Identifier

 refUes:

 type: array

 items:

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

 minItems: 1

 description: List of VAL UE(s) identified as Reference UE(s).

 tgtUes:

 type: array

 items:

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

 minItems: 1

 description: List of VAL UE(s) identified as Target UE(s).

 SlPosMgmtParamResp:

 description: A map(list of key-value pairs) where the key is the ID of Reference UE.

 type: object

 additionalProperties:

 description: A map(list of key-value pairs) where the key is the ID of Target UE.

 type: object

 additionalProperties:

 $ref: 'TS29572\_Nlmf\_Location.yaml#/components/schemas/RangeDirection'

 minProperties: 1

 minProperties: 1

 required:

 - subscId

 ValUeInfo:

 description: Indicate the Val UE Information.

 type: object

 properties:

 valUeId:

 type: string

 description: Identity of the VAL UE ID.

 valUeAddr:

 $ref: 'TS29549\_SS\_NetworkResourceAdaptation.yaml#/components/schemas/ValUeAddrInfo'

 SrPosInfoReq:

 description: >

 Represents the SR Positioning Information Request.

 type: object

 properties:

 valSvcId:

 type: string

 ueList:

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

 srPosFltr:

 type: array

 items:

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

 minItems: 1

 locQoS:

 $ref: 'TS29572\_Nlmf\_Location.yaml#/components/schemas/LocationQoS'

 expTime:

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

 required:

 - ueList

 - srPosFltr

 SrPosInfoResp:

 description: >

 Represents the SR Positioning Information Response.

 type: object

 properties:

 srPosInfo:

 type: array

 items:

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

 minItems: 1

 required:

 - srPosInfo

 SrUeList:

 description: >

 Contains the list of UE identities of Short-Range based positioning.

 type: object

 properties:

 clientUes:

 type: array

 items:

 type: string

 minItems: 1

 tgtUes:

 type: array

 items:

 type: string

 minItems: 1

 refUes:

 type: array

 items:

 type: string

 minItems: 1

 required:

 - clientUes

 - tgtUes

 - refUes

 SrPosInfo:

 description: >

 Contains the Short-Range based positioning information.

 type: object

 properties:

 refUe:

 type: string

 tgtUe:

 type: string

 relativeLocation2D:

 $ref: 'TS29572\_Nlmf\_Location.yaml#/components/schemas/2DRelativeLocation'

 relativeLocation3D:

 $ref: 'TS29572\_Nlmf\_Location.yaml#/components/schemas/3DRelativeLocation'

 relativeVelocity:

 $ref: 'TS29572\_Nlmf\_Location.yaml#/components/schemas/RelativeVelocityWithUncertainty'

 distanceDirection:

 $ref: 'TS29572\_Nlmf\_Location.yaml#/components/schemas/RangeDirection'

 required:

 - refUe

 - tgtUe

 anyOf:

 - required: [ relativeLocation2D ]

 - required: [ relativeLocation3D ]

 - required: [ relativeVelocity ]

 - required: [ distanceDirection ]

 SlPosMgmtParam:

 description: Represents the SL Positioning parameter.

 type: object

 properties:

 reqMetric:

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

 required:

 - reqMetric

# Simple data types and Enumerations

 SlPosMgmtMetric:

 anyOf:

 - type: string

 enum:

 - DISTANCE

 - DIRECTION

 - DISTANCE\_DIRECTION

 - 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:

 Enumeration of SL Positioning management matric.

 - DISTANCE: This value indicates that the SL Positioning Management metric

 is distance.

 - DIRECTION: This value indicates that the SL Positioning Management metric

 is direction.

 - DISTANCE\_DIRECTION: This value indicates that the SL Positioning Management

 metric is both distance and direction .

 ValUeSel:

 anyOf:

 - type: string

 enum:

 - REF\_UE

 - TARGET\_UE

 - 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:

 Enumeration of VAL UE(s) selection criteria for SL Positioning management.

 - REF\_UE: Indicates the selection criteria of UE role is reference UE.

 - TARGET\_UE: Indicates the selection criteria of UE role is target UE.

 SrPosFilter:

 anyOf:

 - type: string

 enum:

 - RANGE

 - DIRECTION

 - RELATIVE\_POS

 - RELATIVE\_VEL

 - 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:

 Enumeration of requested SR based positioning information filters.

 - RANGE: Indicates that the range is requested.

 - DIRECTION: Indicates that the direction is requested.

 - RELATIVE\_POS: Indicates that the relative position is requested.

 - RELATIVE\_VEL: Indicates that the relative velocity is requested.

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