**3GPP TSG- Meeting #130 *C3-234355\_R3***

**Xiamen, China, 09th – 13th October, 2023**

|  |
| --- |
| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** | **0181** | **rev** | **-** | **Current version:** |  |  |
|  |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
|  |

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

|  |
| --- |
|  |
| ***Title:***  | Triggering criteria in the SS\_LocationReporting API |
|  |  |
| ***Source to WG:*** | , Samsung |
| ***Source to TSG:*** | CT3 |
|  |  |
| ***Work item code:*** | SEAL\_Ph3 |  | ***Date:*** |  |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** |  |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories 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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
|  |  |
| ***Reason for change:*** | SA6 concluded on the triggering criteria topic in the SS\_LocationReporting API (see LS [C3-234035](https://www.3gpp.org/ftp/tsg_ct/WG3_interworking_ex-CN3/TSGC3_130_Xiamen/Docs/C3-234035.zip)). Thus, the triggering criteria in the SS\_LocationReporting API needs to be specified in 29.549. |
|  |  |
| ***Summary of change:*** | This CR introduces the triggering criteria in the SS\_LocationReporting API. |
|  |  |
| ***Consequences if not approved:*** | Misalignment with stage 2 requirements. |
|  |  |
| ***Clauses affected:*** | 7.1.1.4.1, 7.1.1.4.2.2, 7.1.1.4.2.3, 7.1.1.4.2.4, 7.1.1.4.3.1(new), 7.1.1.4.3.2(new), 7.1.1.4.3.3(new), 7.1.1.4.3.4(new), 7.1.1.6, A.2 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ... |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** | * This CR addresses the LS [C3-234035](https://www.3gpp.org/ftp/tsg_ct/WG3_interworking_ex-CN3/TSGC3_130_Xiamen/Docs/C3-234035.zip).
* This CR provides backward compatible feature of the SS\_LocationReporting API.
 |
| ***()*** |  |
| ***This CR's revision history:*** |  |

**Additional discussion(if needed):**

**Proposed changes:**

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

##### 7.1.1.4.1 General

This clause specifies the application data model supported by the API. Data types listed in clause 6.2 apply to this API.

Table 7.1.1.4.1-1 specifies the data types defined specifically for the SS\_LocationReporting API service.

Table 7.1.1.4.1-1: SS\_LocationReporting API specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Section defined | Description | Applicability |
| InsideOutsideInd | 7.1.1.4.3.3 | Represents a desired condition of the location reporting, e.g., inside or outside the given area. | TriggeringCriteria |
| LocChangeCond | 7.1.1.4.3.4 | Represents a desired condition of the requested location change | TriggeringCriteria |
| LocationReportConfiguration | 7.1.1.4.2.2 | Represents the location reporting configuration information. |  |
| LocationReportConfigurationPatch | 7.1.1.4.2.3 | Represents the requested modifications to the location reporting configuration information.Used to partially update Individual SEAL Location Reporting Configuration resource. | PatchUpdate |
| TriggeringCriteria | 7.1.1.4.2.4 | Represents the location reporting triggering criteria. | TriggeringCriteria |

Table 7.1.1.4.1-2 specifies data types re-used by the SS\_LocationReporting API service.

Table 7.1.1.4.1-2: SS\_LocationReporting API Re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| Accuracy | 3GPP TS 29.122 [3] | Used to represent the desired level of accuracy of the requested location information. |  |
| DateTime | 3GPP TS 29.571 [21] | Used to represent the subscription duration. |  |
| DurationSec | 3GPP TS 29.571 [21] | Used to represent the time interval between successive location reports. |  |
| ScheduledCommunicationTime | 3GPP TS 29.571 [21] | Used to represent the scheduled location reporting time interval. | TriggeringCriteria |
| SupportedFeatures | 3GPP TS 29.571 [21] | Used to negotiate the applicability of optional features defined in table 7.1.1.6-1. |  |
| ValTargetUe | Clause 7.3.1.4.2.3 | Used to indicate either VAL User ID or VAL UE ID, to which location reporting applies. |  |

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

###### 7.1.1.4.2.2 Type: LocationReportConfiguration

Table 7.1.1.4.2.2-1: Definition of type LocationReportConfiguration

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| valServerId | string | M | 1 | Represents the VAL server identifier. |  |
| valTgtUe | ValTargetUe | M | 1 | Represents the VAL User ID or VAL UE ID to which the location reporting applies. |  |
| immRep | boolean | O | 0..1 | Indication of immediate reporting. If included, when it is set to true it indicates immediate reporting of the subscribed events, if available. Otherwise, reporting will occur when the event is met. |  |
| monDur | DateTime | O | 0..1 | Represents the time at which the subscription ceases to exist (i.e the reporting trigger becomes invalid). If omitted, there is no time limit. |  |
| repPeriod | DurationSec | O | 0..1 | Indicates the time interval between successive location reports. |  |
| accuracy | Accuracy | O | 0..1 | Represents the desired level of accuracy of the requested location information. |  |
| triggCriteria | TriggeringCriteria | O | 0..1 | Represents the location report triggering criteria based on the VAL service area information. | TriggeringCriteria |
| valSvcAreaIds | array(string) | O | 0..1 | Represents the VAL service area ID(s). | ValSrvArea |
| suppFeat | SupportedFeatures | O | 0..1 | Used to negotiate the supported features of the API as defined in clause 7.1.1.6.This attribute shall be provided in the HTTP POST request and in the response of successful resource creation. |  |

Ediror's Note: The applicability and presence conditions of the "repPeriod" and "accuracy" attributes when the "valSrvAreaTrig" attribute is present is FFS.

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

###### 7.1.1.4.2.3 Type: LocationReportConfigurationPatch

Table 7.1.1.4.2.3-1: Definition of type LocationReportConfigurationPatch

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| valTgtUe | ValTargetUe | O | 1 | Represents the VAL User ID or VAL UE ID to which the location reporting applies. |  |
| monDur | DateTime | O | 0..1 | Represents the time at which the subscription ceases to exist (i.e the reporting trigger becomes invalid). If omitted, there is no time limit. |  |
| repPeriod | c | O | 0..1 | Indicates the time interval between successive location reports. |  |
| accuracy | Accuracy | O | 0..1 | Represents the desired level of accuracy of the requested location information. |  |
| valSvcAreaIds | array(string) | O | 0..1 | Represents the VAL service area ID(s). | ValSrvArea |
| trigCriteria | ValServAreaTriggCriteria | O | 0..1 | Represents the location report triggering criteria. | TriggeringCriteria |

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

###### 7.1.1.4.2.4 Type: TriggeringCriteria

Table 7.1.1.4.2.4-1: Definition of type TriggeringCriteria

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
|  |  |  |  |  |  |
| reportingMode | NotificationMethod | M | 1 | The indication of the requested reporting mode: periodic or event-triggered (i.e., "ON\_EVENT\_DETECTION").The "ONE\_TIME" value is not applicable for this attribute. |  |
| repPer | DurationSec | C | 0..1 | Indicates the reporting periodicy.This attribute shall be present if the "reportingMode" attribute is set to the "PERIODIC". |  |
| locChgCond | LocChangeCond | C | 0..1 | Identifies the reporting time interval for the event-triggered reporting.This attribute shall be present if the "reportingMode" attribute is set to the "ON\_EVENT\_DETECTION". |  |
| ioInd | InsideOutsideInd | O | 0..1 | Indicates the condition when the reporting shall occur. |  |
| repSchedules | array(ScheduledCommunicationTime) | O | 1..N | Indicates the requested reporting schedule, e.g., day(s) of the week and/or time period(s) for the location reporting. |  |

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

###### 7.1.1.4.3.1 Introduction

This clause defines simple data types and enumerations that are referenced from data structures defined in the previous clauses. In addition, data types and enumerations defined in clause 6.2.1 can be referenced.

###### 7.1.1.4.3.2 Simple data types

The simple data types defined in table 7.1.1.4.3.2-1 shall be supported.

Table 7.1.1.4.3.2-1: Simple data types

|  |  |
| --- | --- |
| Type name | Description |
|  |  |

###### 7.1.1.4.3.3 Enumeration: InsideOutsideInd

The enumeration InsideOutsideInd represents a desired condition of the location reporting, e.g., inside or outside the given area. It shall comply with the provisions defined in table 7.1.1.4.3.3-1.

Table 7.1.1.4.3.3-1: Enumeration InsideOutsideInd

|  |  |  |
| --- | --- | --- |
| **Enumeration value** | **Description** | **Applicability** |
| INSIDE | Indicates that the reporting shall occur when the UE is inside the given location. |  |
| OUTSIDE | Indicates that the reporting shall occur when the UE is outside the given location. |  |

###### 7.1.1.4.3.4 Enumeration: LocChangeCond

The enumeration LocChangeCond represents a desired condition of the requested location change. It shall comply with the provisions defined in table 7.1.1.4.3.4-1.

Table 7.1.1.4.3.4-1: Enumeration LocChangeCond

|  |  |  |
| --- | --- | --- |
| Enumeration value | Description | Applicability |
| CELL | The condition is cell change. |  |
| NODEB | The condition is eNodeB or gNodeB change. |  |
| TA\_RA | The condition is TA or RA change. |  |
| WLAN\_AN | The condition is WLAN access network change (e.g., SSID or BSSID change). |  |
| CIVIC\_ADDR | The condition is civic address change. |  |
| GPS | The condition is GPS coordinate change. (NOTE) |  |
| SAI | The condition is SAI change. |  |
| ECGI | The condition is ECGI change. |  |
| RAT | The condition is RAT change. |  |
| VAL\_SERVICE\_AREA | The condition is VAL service area change. | ValSrvArea |
| NOTE: Care needs to be taken with regards to load and signalling cost when using the "GPS" condition. |

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

#### 7.1.1.6 Feature negotiation

General feature negotiation procedures are defined in clause 6.8.

Table 7.1.1.6-1: Supported Features

|  |  |  |
| --- | --- | --- |
| **Feature number** | **Feature Name** | **Description** |
| 1 | PatchUpdate | Indicates the support of the PATCH method for updating an Individual SEAL Location Reporting Configuration resource. |
| 2 | SEAL3\_ValSrvArea | Indicates the support of the VAL service area functionality. |
| 3 | TriggeringCriteria | Indicates the support of the triggering criteria for the location reporting trigger as a part of the enhancements to the SEAL framework.The following functionalities are supported:- Support location reporting based on triggering criteria information. |

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

# A.2 SS\_LocationReporting API

openapi: 3.0.0

info:

 title: SS\_LocationReporting

 description: |

 API for SEAL Location Reporting Configuration.

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 version: "1.2.0-alpha.1"

externalDocs:

 description: >

 3GPP TS 29.549 V18.0.0 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/

security:

 - {}

 - oAuth2ClientCredentials: []

servers:

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

 variables:

 apiRoot:

 default: https://example.com

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

paths:

 /trigger-configurations:

 post:

 description: Creates a new location reporting configuration.

 operationId: CreateLocReportingConfig

 tags:

 - SEAL Location Reporting Configurations (Collection)

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '201':

 description: Location reporting configuration resource is created sucessfully.

 content:

 application/json:

 schema:

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

 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'

 /trigger-configurations/{configurationId}:

 get:

 description: Retrieves an individual SEAL location reporting configuration information.

 operationId: RetrieveLocReportingConfig

 tags:

 - Individual SEAL Location Reporting Configuration (Document)

 parameters:

 - name: configurationId

 in: path

 description: String identifying an individual configuration resource.

 required: true

 schema:

 type: string

 responses:

 '200':

 description: The location reporting configuration information.

 content:

 application/json:

 schema:

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

 '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:

 description: Updates an individual SEAL location reporting configuration.

 operationId: UpdateLocReportingConfig

 tags:

 - Individual SEAL Location Reporting Configuration (Document)

 parameters:

 - name: configurationId

 in: path

 description: String identifying an individual configuration resource.

 required: true

 schema:

 type: string

 requestBody:

 description: Configuration information to be updated in location management server.

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '200':

 description: The configuration is updated successfully.

 content:

 application/json:

 schema:

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

 '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:

 description: Deletes an individual SEAL location reporting configuration.

 operationId: DeleteLocReportingConfig

 tags:

 - Individual SEAL Location Reporting Configuration (Document)

 parameters:

 - name: configurationId

 in: path

 description: String identifying an individual configuration resource.

 required: true

 schema:

 type: string

 responses:

 '204':

 description: The individual configuration matching configurationId 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'

 patch:

 description: Modify an existing SEAL Location Reporting Configuration.

 operationId: ModifyLocReportingConfig

 tags:

 - Individual SEAL Location Reporting Configuration (Document)

 parameters:

 - name: configurationId

 in: path

 description: Identifier of an individual SEAL location reporting configuration.

 required: true

 schema:

 type: string

 requestBody:

 required: true

 content:

 application/merge-patch+json:

 schema:

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

 responses:

 '200':

 description: >

 The individual SEAL location reporting configuration is modified successfully and

 a representation of the updated SEAL location reporting configuration is returned

 in the request body.

 content:

 application/json:

 schema:

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

 '204':

 description: >

 No Content. The individual SEAL location reporting configuration is

 modified successfully.

 '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:

 LocationReportConfiguration:

 description: Represents the location reporting configuration information.

 type: object

 properties:

 valServerId:

 type: string

 valTgtUe:

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

 immRep:

 type: boolean

 monDur:

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

 repPeriod:

c

 accuracy:

 $ref: 'TS29122\_MonitoringEvent.yaml#/components/schemas/Accuracy'

 valSvcAreaIds:

 type: array

 minItems: 1

 items:

 type: string

 description: >

 Represents the VAL service area ID(s).

 triggCriteria:

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

 suppFeat:

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

 required:

 - valServerId

 - valTgtUe

 LocationReportConfigurationPatch:

 description: Represents the location reporting configuration information patch.

 type: object

 properties:

 valTgtUe:

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

 monDur:

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

 repPeriod:

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

 accuracy:

 $ref: 'TS29122\_MonitoringEvent.yaml#/components/schemas/Accuracy'

 valSvcAreaIds:

 type: array

 minItems: 1

 items:

 type: string

 description: >

 Represents the VAL service area ID(s).

 triggCriteria:

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

 TriggeringCriteria:

 description: Represents the location reporting triggering criteria.

 type: object

 properties:

 reportingMode:

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

 repPer:

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

 locChgCond:

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

 ioInd:

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

 repSchedules:

 type: array

 minItems: 1

 items:

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

 description: >

 Indicates the requested reporting schedule, e.g., day(s) of the week

 and/or time period(s) for the location reporting.

 required:

 - reportingMode

# Simple data types and Enumerations

 InsideOutsideInd:

 anyOf:

 - type: string

 enum:

 - INSIDE

 - OUTSIDE

 - 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 a desired condition of the location reporting,

 e.g., inside or outside the given area.

 Possible values are:

 - INSIDE: Indicates that the reporting shall occur when the UE is inside the given location.

 - OUTSIDE: Indicates that the reporting shall occur when the UE is outside the given

 location.

 LocChangeCond:

 anyOf:

 - type: string

 enum:

 - CELL

 - NODEB

 - TA\_RA

 - WLAN\_AN

 - CIVIC\_ADDR

 - GPS

 - SAI

 - ECGI

 - RAT

 - VAL\_SERVICE\_AREA

 - 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 a desired condition of the requested location change.

 Possible values are:

 - CELL: The condition is cell change.

 - NODEB: The condition is eNodeB or gNodeB change.

 - TA\_RA: The condition is TA or RA change.

 - WLAN\_AN: The condition is WLAN access network change (e.g., SSID or BSSID change).

 - CIVIC\_ADDR: The condition is civic address change.

 - GPS: The condition is GPS coordinate change.

 - SAI: The condition is SAI change..

 - ECGI: The condition is ECGI change.

 - RAT: The condition is RAT change.

 - VAL\_SERVICE\_AREA: The condition is VAL service area change.

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