**3GPP TSG CT WG3 Meeting #138 *C3-246245***

**Orlando, US, 18 - 22 November, 2024**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.549** | **CR** | **0349** | **rev** | **-** | **Current version:** | **19.0.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

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|  | | | | | | | | | | |
| ***Title:*** | SS\_ADAE\_collision\_detection\_analytics OpenAPI file | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eLSAPP | | | | |  | ***Date:*** | | | 2024-10-28 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***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 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:*** | | CR#0037 of 23.436 agreed in SA#62 meeting specifies SS\_ADAE\_collision\_detection\_analytics API. Thus, the definition of this API shall be done in 29.549. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | This CR introduces the SS\_ADAE\_collision\_detection\_analytics API OpenAPI. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The stage 2 requirements are not implemented in stage 3. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | A.24 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 new OpenAPI file. | | | | | | | | |
| ***()*** | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

**Additional discussion(if needed):**

**Proposed changes:**

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

# A.24 SS\_ADAE\_CollisionDetectionAnalytics API

openapi: 3.0.0

info:

title: SS\_ADAE\_CollisionDetectionAnalytics

description: |

API for ADAE Collision Detection Analytics service.

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version: "1.0.0-alpha.1"

externalDocs:

description: >

3GPP TS 29.549 V19.1.0 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-adae-lruga/v1'

variables:

apiRoot:

default: https://example.com

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

paths:

/subscriptions:

post:

summary: Create an "Individual Collision Detection Analytics Subscription" resource.

operationId: SubscribeCollisionDetectionAnalytics

tags:

- Location Related UE Group Subscriptions (Collection)

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'201':

description: >

Subscription to the collision detection analytics is created.

content:

application/json:

schema:

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

headers:

Location:

description: Contains the URI of the newly created individual 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:

NotifyCollisionDetectionEvent:

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

post:

summary: Notify the collision detection analytics.

requestBody:

required: true

content:

application/json:

schema:

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

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 the "Individual Collision Detection Analytics Subscription" resource.

operationId: ReadCollisionDetectionSubscription

tags:

- Individual Collision Detection Analytics Subscription (Document)

parameters:

- name: subscriptionId

in: path

description: >

Represents the identifier of an Individual Collision Detection Analytics Subscription.

required: true

schema:

type: string

responses:

'200':

description: >

The requested "Individual Collision Detection Analytics Subscription"

resource is returned.

content:

application/json:

schema:

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

'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'

delete:

summary: Remove the "Individual Collision Detection Analytics Subscription" resource.

operationId: RemoveCollisionDetectionSubscription

tags:

- Individual Collision Detection Analytics Subscription (Document)

parameters:

- name: subscriptionId

in: path

description: >

Represents the identifier of an Individual Collision Detection Analytics Subscription.

required: true

schema:

type: string

responses:

'204':

description: >

The "Individual Collision Detection Analytics 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'

components:

securitySchemes:

oAuth2ClientCredentials:

type: oauth2

flows:

clientCredentials:

tokenUrl: '{tokenUrl}'

scopes: {}

schemas:

CollisionDetectionSub:

description: >

Represents the collision detection analytics subscription.

type: object

properties:

analyticsType:

$ref: 'TS29549\_SS\_ADAE\_VALPerformanceAnalytics.yaml#/components/schemas/AnalyticsType'

analyticsId:

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

analyticsFilt:

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

colDetCriteria:

type: array

description: >

Represents the collision detection criteria.

items:

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

minItems: 1

confLevel:

type: integer

minimum: 0

maximum: 100

repReq:

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

notifUri:

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

timeInterval:

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

suppFeat:

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

required:

- analyticsType

- notifUri

CollisionDetectionNotif:

description: >

Represents the collision detection analytics notification.

type: object

properties:

timeValid:

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

confLevel:

type: integer

minimum: 0

maximum: 100

analyticsId:

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

CollisionDetectionFilter:

description: >

Represent the the collision detection analytics filtering information.

type: object

properties:

trgToOther:

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

targetToAnyUeLoc:

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

oneOf:

- required: [trgToOther]

- required: [targetToAnyUeLoc]

CollisionDetectionCriteria:

description: >

Represents the collision detection criteria.

type: object

properties:

distance:

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

oneOf:

- required: [distance]

TargetOtherUesFilter:

description: >

Represent the analytics filter between any VAL UEs within the given location.

type: object

properties:

trgValServerId:

type: string

targetUes:

type: array

items:

type: string

minItems: 1

otherUes:

type: array

items:

type: string

minItems: 1

area:

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

required:

- targetUes

TargetToAnyUeLocFilter:

description: >

Represent the analytics filter between sets of target and other UEs within a location.

type: object

properties:

trgValServerId:

type: string

area:

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

required:

- area

# Simple data types and Enumerations

AnalyticsIdCda:

anyOf:

- type: string

enum:

- TARGET\_WITH\_OTHER\_UES

- ANY\_UES\_IN\_LOC

- 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 analytic IDs for Collision Detection Analytics.

Possible values are:

- TARGET\_WITH\_OTHER\_UES: Indicates that the requested analytics is collision

detection between the sets of target and other VAL UEs within a location.

- ANY\_UES\_IN\_LOC: Indicates that the requested analytics is collision detection

between any VAL UEs within given location.

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