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

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

|  |
| --- |
| *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)*.* |
|  |

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

|  |
| --- |
|  |
| ***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 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:*** | 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.

 © 2024, 3GPP Organizational Partners (ARIB, ATIS, CCSA, ETSI, TSDSI, TTA, TTC).

 All rights reserved.

 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 \* \* \* \*