**3GPP TSG CT WG3 Meeting #138 *C3-246246***

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

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **29.549** | **CR** | **0350** | **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 API service operations |
|  |  |
| ***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. 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 service operations. |
|  |  |
| ***Consequences if not approved:*** | The stage 2 requirements are not implemented in stage 3. |
|  |  |
| ***Clauses affected:*** | 5.11.10 (new) |
|  |  |
|  | **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 does not affect any OpenAPI file.
 |
| ***()*** |  |
| ***This CR's revision history:*** |  |

**Additional discussion(if needed):**

**Proposed changes:**

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

### 5.11.10 SS\_ADAE\_CollisionDetectionAnalytics API

#### 5.11.10.1 Service Description

##### 5.11.10.1.1 Overview

The SS\_ADAE\_CollisionDetectionAnalytics, as defined in 3GPP TS 23.436 [38], allows service consumer via ADAE-S reference point to communicate with the ADAE Server for collision detection analytics retrieval including managing collision detection analytics subscriptions.

#### 5.11.10.2 Service Operations

##### 5.11.10.2.1 Introduction

The service operations defined for the SS\_ADAE\_CollisionDetectionAnalytics are shown in the table 5.11.10.2.1-1.

Table 5.11.10.2.1-1: Operations of the SS\_ADAE\_CollisionDetectionAnalytics

|  |  |  |
| --- | --- | --- |
| Service operation name | Description | Initiated by |
| Subscribe | This service operation is used by the service consumer to subscribe to collision detection analytics. | VAL server, LM Server, UAE server, UASS |
| Notify | This service operation is used by the ADAE Server to notify about the collision detection analytics. | ADAE Server |

##### 5.11.10.2.2 Subscribe

###### 5.11.10.2.2.1 General

This service operation is used by service consumer to subscribe to collision detection analytics to the ADAES.

###### 5.11.10.2.2.2 Subscribing for collision detection analytics using Subscribe

To subscribe to collision detection analytics, the service consumer shall send an HTTP POST message to the ADAES with a Request-URI set to "{apiRoot}/ss-adae-cda/<apiVersion>/subscriptions", and the body containing the CollisionDetectionSub data structure as defined in clause 7.10.10.4.2.2.

Upon reception of the HTTP POST request message, the ADAES shall:

1. verify the identity of the service consumer and determine if the service consumer is authorized to subscribe to collision detection analytics event; and

2. if the service consumer:

a. is not authorized, the ADAES shall respond to an appropriate error status code; or

b. is authorized, the ADAES shall create a new "Individual Collision detection analytics Subscription" resource and respond to the service consumer with an HTTP "201 Created" status code, including a Location header field containing the URI for the created resource and the response body including the CollisionDetectionSub data structure containing a representation of the created resource.

If errors occur when processing the HTTP POST request, the ADAES shall send an appropriate HTTP error response as specified in clause 7.10.10.5.

##### 5.11.10.2.3 Notify

###### 5.11.10.2.3.1 General

This service operation is used by the ADAES to send a notification about collision detection analytics events to a previously subscribed service consumer.

###### 5.11.10.2.3.2 Notifying collision detection analytics events using Notify

To notify about collision detection analytics events, the ADAES shall send an HTTP POST request to the service consumer at the notification URI that was provided during subscription, and the body containing the CollisionDetectionNotif data structure as defined in clause 7.10.10.4.2.3.

Upon receiving the HTTP POST request message, the service consumer shall process the collision detection analytics events notification, and in case of success, respond with the HTTP "204 No Content" status code.

If errors occur when processing the HTTP POST request, the service consumer shall send an appropriate HTTP error response as specified in clause 7.10.10.5.

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