**3GPP TSG CT WG3 Meeting #138 *C3-246248***

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

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.549** | **CR** | **0352** | **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\_location-related\_UE\_group\_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 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#0038 of 23.436 agreed in SA#62 meeting specifies SS\_ADAE\_location-related\_UE\_group\_analytics API. Thus, the definition of this API shall be done in 29.549. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | This CR introduces the SS\_ADAE\_location-related\_UE\_group\_analytics API service operations. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The stage 2 requirements are not implemented in stage 3. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.11.9 (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 \* \* \* \*

### 5.11.9 SS\_ADAE\_LocationRelatedUeGroupAnalytics API

#### 5.11.9.1 Service Description

The SS\_ADAE\_LocationRelatedUeGroupAnalytics API, as defined 3GPP TS 23.434 [2], enables a service consumer to:

- create/update/delete a Location-Related UE Group Analytics Subscription; and

- receive Location-Related UE Group Analytics Subscription related event(s) notification.

#### 5.11.9.2 Service Operations

##### 5.11.9.2.1 Introduction

The service operations defined for the SS\_ADAE\_LocationRelatedUeGroupAnalytics are shown in the table 5.11.9.2.1-1.

Table 5.11.9.2.1-1: Operations of the SS\_ADAE\_LocationRelatedUeGroupAnalytics

|  |  |  |
| --- | --- | --- |
| Service operation name | Description | Initiated by |
| Subscribe | This service operation is used by the VAL Server to create/update/delete Location-Related UE Group Analytics Subscription. | LM Server |
| Notify | This service operation is used by the ADAE Server to notify about the Location-Related UE Group Analytics Subscription event(s). | ADAE Server |

##### 5.11.9.2.2 Subscribe

###### 5.11.9.2.2.1 General

This service operation is used by a service consumer to request the creation of a Location-Related UE Group Analytics Subscription at the ADAE Server.

The following procedures are supported by the "Subscribe" service operation:

- Location-Related UE Group Analytics Subscription Creation.

- Location-Related UE Group Analytics Subscription Update.

- Location-Related UE Group Analytics Subscription Deletion.

###### 5.11.9.2.2.2 Location-Related UE Group Analytics Subscription Creation

To subscribe to location-related UE group analytics, the VAL server shall send an HTTP POST message to the ADAES with a Request-URI set to "{apiRoot}/ss-adae-lruga/<apiVersion>/subscriptions", and the body containing the LocRelUeGroupSub data structure as defined in clause 7.10.9.4.2.2.

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

1. verify the identity of the VAL server and determine if the VAL server is authorized to subscribe to location-related UE group analytics event; and

2. if the VAL server:

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 Location-Related UE Group Analytics Subscription" resource and respond to the VAL server 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 LocRelUeGroupSub 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 7.10.3.5.

###### 5.11.9.2.2.3 Location-Related UE Group Analytics Subscription Deletion

To unsubscribe from location-related UE group analytics events, the VAL server shall send an HTTP DELETE request with "{apiRoot}/ss-adae-lruga/<apiVersion>/subscriptions/{subscriptionId}" as Resource URI, where "{subscriptionId}" is the identifier of the existing subscription that is to be deleted.

Upon receiving the HTTP DELETE request, if the ADAES authorizes the service consumer and successfully performs the deletion of the indicated subscriptionshall:

1. verify the identity of the VAL Server and check if the VAL Server is authorised to terminate the targeted "Individual Location-Related UE Group Analytics Subscription" associated with the resource URI;

2. if the VAL Server is authorized to unsubscribe from location-related UE group analytics events, the ADAES shall remove the corresponding subscription and respond with the HTTP "204 No Content" status code.

If errors occur when processing the HTTP DELETE request, the ADAES shall send an appropriate HTTP error response as specified in clause 7.10.3.5.

##### 5.11.9.2.3 Notify

###### 5.11.9.2.3.1 General

This service operation is used by the ADAE Server to notify on Location-Related UE Group Analytics event(s).

The following procedures are supported by the "Notify" service operation:

- Location-Related UE Group Analytics Event Notification.

###### 5.11.9.2.3.2 Location-Related UE Group Analytics Event Notification

To notify about location-related UE group 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 LocRelUeGroupNotif data structure as defined in clause 7.10.9.4.2.3.

Upon receiving the HTTP POST request message, the service consumer shall process the location-related UE group 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 7.10.3.5.

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