**3GPP TSG-CT WG3 Meeting #115eC3-212370**

**E-Meeting, 14th – 23rd April 2021** *(Revision of C3-212269)*

**Source: Samsung**

**Title: Pseudo-CR on Eees\_UEIdentifier API definition**

**Spec: 3GPP TS 29.558, v0.2.0**

**Agenda item: 17.9**

**Document for: Decision**

**1. Introduction**

Eees\_UEIdentifier service and its API is specified by SA6 in TS 23.558. This contribution proposes the API definition of the Eees\_UEIdentifier API.

**2. Reason for Change**

Stage 3 aspects of Eees\_UEIdentifier service API need to be defined aligning to TS 23.558. The required information to determine the UE identifier is pending with stage 2 and needs to be aligned in the API definition. An EN is added for the same, which will be resolved based on stage 2 definition.

**3. Conclusions**

<Conclusion part (optional)>

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS 29.558, v0.2.0.

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

## 8.z Eees\_UEIdentifier API

### 8.z.1 API URI

The Eees\_UEIdentifier service shall use the Eees\_UEIdentifier API.

The request URIs used in HTTP requests from the Edge Application Server towards the Edge Enabler Server shall have the Resource URI structure as defined in clause 7.5 with the following clarifications:

- The <apiName>shall be "eees-ueidentifier".

- The <apiVersion> shall be "v1".

- The <apiSpecificResourceUriPart> shall be set as described in clause 8.z.2.

### 8.z.2 Resources

#### 8.z.2.1 Overview



Figure 8.z.2.1-1: Resource URI structure of the Eees\_UEIdentifier API

Table 8.z.2.1-1 provides an overview of the resources and applicable HTTP methods.

Table 8.z.2.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
| Identifier Information of UEs | /ue-identifier | n/a |  |
| /ue-identifier/fetch | fetch  (POST) | Fetch the identifier of an UE. |

Editor’s Note: It is FFS, usage of GET method on Identifier Information of UEs resource or custom operation without resource, to fetch the UE identifier, is based on clarification from CT4.

#### 8.z.2.2 Resource: Identifier Information of UEs

##### 8.z.2.2.1 Description

This resource represents identifiers information of all the UEs at a given Edge Enabler Server.

##### 8.y.2.2.2 Resource Definition

Resource URI: **{apiRoot}/eees-ueidentifier/<apiVersion>/ue-identifier**

This resource shall support the resource URI variables defined in the table 8.z.2.2.2-1.

Table 8.y.2.2.2-1: Resource URI variables for this resource

|  |  |  |
| --- | --- | --- |
| Name | Data Type | Definition |
| apiRoot | string | See clause 7.5 |
| apiVersion | string | See clause 8.z.1 |

##### 8.z.2.2.3 Resource Standard Methods

None.

##### 8.z.2.2.4 Resource Custom Operations

###### 8.z.2.2.4.1 Overview

Table 8.z.2.2.4.1-1: Custom operations

|  |  |  |  |
| --- | --- | --- | --- |
| Operation name | Custom operaration URI | Mapped HTTP method | Description |
| Fetch | /fetch | POST | Fetch an UE identifier. |

###### 8.z.2.2.4.2 Operation: Fetch

8.z.2.2.4.2.1 Description

This custom operation allows the EAS to fetch an UE’s identifier, which is UE ID as specified in 3GPP TS 23.558 [2], from the EES for a given UE information.

8.y.2.2.4.2.2 Operation Definition

This operation shall support the request data structures specified in table 8.z.2.2.4.2.2-1 and the response data structure and response codes specified in table 8.z.2.2.4.2.2-2.

Table 8.z.2.2.4.2.2-1: Data structures supported by the POST Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| UserInformation | M | 1 | Information about the User or the UE, available at the EAS. |

Editor’s Note: Details of how the EAS security credentials are submitted in the HTTP POST message is FFS and to be updated based on security aspects defined by SA3.

Table 8.z.2.2.4.2.2-2: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| Gpsi | M | 1 | 200 OK | The UE Identifier (UE ID), returned by the Edge Enabler Server. |
| NOTE: The manadatory HTTP error status code for the POST method listed in Table 5.2.6-1 of 3GPP TS 29.122 [6] also apply. | | | | |

Editor’s Note: The format of GPSI for UE ID is FFS and to be aligned with security aspects defined by SA3.

### 8.z.3 Custom Operations without associated resources

### 8.z.4 Notifications

None.

### 8.z.5 Data Model

#### 8.z.5.1 General

This clause specifies the application data model supported by the API. Data types listed in clause 7.2 apply to this API

Table 8.z.5.1-1 specifies the data types defined specifically for the Eees\_UEIdentifier API service.

Table 8.z.5.1-1: Eees\_UEIdentifier API specific Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Section defined | Description | Applicability |
| UserInformation | 8.z.5.2.2 | Information about the User or the UE, that used by EES to determine the UE identifier. |  |

Table 8.z.5.1-2 specifies data types re-used by the Eees\_UEIdentifier API service.

Table 8.z.5.1-2: Re-used Data Types

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Reference | Comments | Applicability |
| Gpsi | 3GPP TS 29.571 [8] | Used to identify the UE in the query parameter, for which location information is queried. |  |
| Ipv4Addr | 3GPP TS 29.122 [6] | Identifying the IPv4 address of the UE. |  |
| Ipv6Addr | 3GPP TS 29.122 [6] | Identifying the IPv6 address of the UE. |  |

#### 8.z.5.2 Structured data types

##### 8.z.5.2.1 Introduction

##### 8.z.5.2.2 Type: UserInformation

Table 8.z.5.2.2-1: Definition of type UserInformation

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| acr | string | O | 0..1 | Anonymous Customer Reference as specified in OMA. (NOTE) |  |
| ipv4Addr | Ipv4Addr | O | 0..1 | IPv4 address of the UE. (NOTE) |  |
| Ipv6Addr | Ipv6Addr | O | 0..1 | IPv6 address of the UE. (NOTE) |  |
| NOTE: Only one of the parameters (acr, ipv4Addr, ipv6Addr) shall be included. | | | | | |

Editor’s Note: The definition of UserInformation data type is FFS and to be aligned with the SA2 defined service on fetching UE Identifier.

Editor’s Note: Reference to "acr" attribute details is FFS and to be updated based on the alignment with SA2 defined service for fetching UE Identifier.

#### 8.z.5.3 Simple data types and enumerations

None

### 8.z.6 Error Handling

General error responses are defined in clause 7.7.

### 8.z.7 Feature negotiation

General feature negotiation procedures are defined in clause 7.8. Table 8.z.7-1 lists the supported features for Eees\_UEIdentifier API.

Table 8.z.7-1: Supported Features

|  |  |  |
| --- | --- | --- |
| **Feature number** | **Feature Name** | **Description** |
|  |  |  |

\* \* \* End of Changes \* \* \* \*