**3GPP TSG-CT WG3 Meeting #118eC3-215136**

**E-Meeting, 11th – 15th October 2021** (revision of C3-21xxxx)

**Source: Ericsson**

**Title: Pseudo-CR on Updates to Eees\_SelectedTargetEAS API**

**Spec: 3GPP TS 29.558 v1.0.0**

**Agenda item: 17.9**

**Document for: Agreement**

**1. Introduction**

This pCR proposes the updates to service description and API definition of Eees\_SelectedTargetEAS service API.

**2. Reason for Change**

Proposing updates to service description and API definition aligning to definition of the API in 3GPP TS 23.558 and other correction updates:

1. clarify the EES check if the "requesting" S-EAS is authorized to declare the selected T-EAS information to be aligned with stage 2 to avoid confusion on which EAS to be authorized.
2. updates error handling description in clause 7.7 and clause 8.8.6 in response to support the failure cause requested in stage 2.
3. updates response to support 307/308 redirection.
4. some editorial corrections.

**3. Conclusions**

Update the corresponding service description and API definition.

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS 29.558 v1.0.0.

\*\*\* 1st Change \*\*\*

#### 5.9.2.1 Introduction

The service operation defined for Eees\_SelectedTargetEAS API is shown in the table 5.9.2.1-1.

Table 5.9.2.1-1: Operations of the Eees\_SelectedTargetEAS API

|  |  |  |
| --- | --- | --- |
| Service operation name | Description | Initiated by |
| Eees\_SelectedTargetEAS\_Declare | This service operation is used by the S-EAS to inform the S-EES about selection of the T-EAS. | EAS |

\*\*\* 2nd Change \*\*\*

##### 5.9.2.2.2 S-EAS informing the S-EES about the selected T-EAS using Eees\_SelectedTargetEAS\_Declare operation

To declare the information about the selected T-EAS to the S-EES, the S-EAS shall send a HTTP POST message to the S-EES on the custom URI "/declare" as specified in clause 8.8.3.2. The request body of the POST message includes the information about the UE, selected EAS identifier and end point information.

Upon receiving the HTTP POST message from the EAS, the EES shall:

1. Process the EAS request;

2. verify the identity of the EAS and check if the requesting S-EAS is authorized to declare the T-EAS information;

3. if the requesting S-EAS is authorized to declare T-EAS information, then the EES shall;

a. send successful declaration response message to S-EAS;

b. additionally, the S-EES determines the T-EES based on the declared T-EAS information and may notify the EEC using the Eees\_ACREvents\_Notify service operation as specified in 3GPP TS 24.558 [14].

\*\*\* 3rd Change \*\*\*

## 7.7 Error handling

Response bodies for error handling, as described in clause 5.2.6 of 3GPP TS 29.122 [6], are applicable to all APIs in the present specification unless specified otherwise, with the following clarifications:

- description of the SCEF applies to EES for Eees APIs or ECS for Eecs APIs ; and

- description of the SCS/AS applies to the functional entity invoking an EDGEAPP API.

\*\*\* 4th Change \*\*\*

### 8.8.1 API URI

The Eees\_SelectedTargetEAS service shall use the Eees\_SelectedTargetEAS 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-selectedtargeteas".

- The <apiVersion> shall be "v1".

- The <apiSpecificResourceUriPart> shall be set as described in clause 8.8.3.

\*\*\* 5th Change \*\*\*

##### 8.8.3.2.1 Description

This custom operation allows the S-EAS to declare the selected T-EAS information to the S-EES, as specified in 3GPP TS 23.558 [2].

\*\*\* 6th Change \*\*\*

##### 8.8.3.2.2 Operation Definition

This operation shall support the response data structures and response codes specified in tables 8.8.3.2.2-1 and 8.8.3.2.2-2.

Table 8.8.3.2.2-1: Data structures supported by the POST Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| SelectedEAS | M | 1 | Selected T-EAS information. |

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 8.8.3.2.2-2: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | The declaration to T-EAS information has been processed successfully. |
| n/a |  |  | 307 Temporary Redirect | Temporary redirection, during the T-EAS declaration. The response shall include a Location header field containing an alternative URI of the resource located in an alternative EES.  Redirection handling is described in clause 5.2.10 of 3GPP TS 29.122 [6]. |
| n/a |  |  | 308 Permanent Redirect | Permanent redirection, during the T-EAS declaration. The response shall include a Location header field containing an alternative URI of the resource located in an alternative EES.  Redirection handling is described in clause 5.2.10 of 3GPP TS 29.122 [6]. |
| NOTE: The mandatory HTTP error status code for the POST method listed in Table 5.2.6-1 of 3GPP TS 29.122 [6] also apply. | | | | |

\*\*\* 7th Change \*\*\*

##### 8.8.5.2.2 Type: SelectedEAS

Table 8.8.5.2.2-1: Definition of type SelectedEAS

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| easId | string | M | 1 | Identifier of the selected T-EAS. |  |
| ueId | Gpsi | M | 1 | Identifier of the UE. |  |
| endPt | EndPoint | M | 1 | Selected T-EAS end point information. |  |

Editor’s Note: The format of GPSI for ueId attribute is FFS and to be updated based on security aspects defined by SA3.

\*\*\* 8th Change \*\*\*

#### 8.8.5.3 Simple data types and enumerations

None.

\*\*\* 9th Change \*\*\*

### 8.8.6 Error Handling

General error responses are defined in clause 7.7.

The application errors defined for the Eees\_SelectedTargetEAS API are listed in table 8.8.6-1. The EES shall include in the HTTP status code a "ProblemDetails" data structure with the "cause" attribute indicating the application error as listed in table 8.8.6-1.

Table 8.8.6-1: Application errors

|  |  |  |
| --- | --- | --- |
| Application Error | HTTP status code | Description |
| REQUESTING\_S-EAS\_NOT\_AUTHORIZED | 403 Forbidden | Indicates that the requesting S-EAS is not authorized for this operation. |

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