**3GPP TSG-CT WG1 Meeting #136-eC1-223669**

**E-Meeting, 12th – 20th May 2022**

**Source: Samsung**

**Title: Pseudo-CR to remove Editor's notes**

**Spec: 3GPP TS 24.558**

**Agenda item: 17.2.16**

**Document for: Agreement**

**1. Introduction**

The pCR proposes removal of Editor's notes

**2. Reason for Change**

In 3GPP TS 24.558 below Editor's notes are removed:

1. Editor's note: Whether the EEC Id should be included into the resource URI structure is FFS.
2. Editor's note: Whether the EEC Id should be included in the resource URI structure is FFS.
3. Editor's note: How the EEC maintains the service provisioning information is FFS.
4. Editor's note: Whether UE identifier is contained as a part of the URI is FFS.
5. Editor's note: Whether HTTP 404 Not Found is appropriate for this case is FFS.
6. Editor's note: How ECS identifies the EES(s) based on the provided AC profile(s) and the UE location is FFS.

For EN in 1 and 2) EEC Id is already shared as part of EecRegistration data type, so removing this EN.

EN in 3 is replaced with Note to clarify it as implementation specific.

EN in 4 UE Id is already shared as part of ECSServProvSubscription data type, so removing this EN.

EN in 5 is removed, since the query parameters from EEC are valid however there are no content matching the query parameters. So this shall be considered as successful case and not client side error.

EN in 6 is replaced with Note to clarify it as implementation specific.

**3. Proposal**

It is proposed to agree the following changes to 3GPP TS 24.558 v1.3.0.

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

#### 6.2.2.1 Overview



Figure 6.2.2.1-1: Resource URI structure of the Eees\_EECRegistration API

Table 6.2.2.1-1 provides an overview of the resources and applicable HTTP methods.

Table 6.2.2.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
| EEC Registrations | /registrations | POST | Create a new EEC registration at the EES |
| Individual EEC registration | /registrations/{registrationId} | PUT | Update an existing EEC registration a the EES |
| DELETE | Remove an existing ECC registration at EES |
| PATCH | Partially update an existing EEC registration a the EES |

\* \* \* Next Change \* \* \* \*

#### 6.4.2.1 Overview



Figure 6.4.2.1-1: Resource URI structure of the Eees\_ACREvents API

Table 6.4.2.1-1 provides an overview of the resources and applicable HTTP methods.

Table 6.4.2.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method or custom operation | Description |
| ACR events subscriptions | /subscriptions | POST | Creates a new individual ACR events subscription. |
| Individual ACR events subscription | /subscriptions/{subscriptionId} | PUT | Updates an existing individual ACR events subscription identified by the subscriptionId. |
| DELETE | Deletes an existing individual ACR events subscription identified by the subscriptionId. |
| PATCH | Partially updates an existing individual ACR events subscription identified by the subscriptionId. |

\* \* \* Next Change \* \* \* \*

##### 7.2.2.2.2 EEC requesting service provisioning information using Eecs\_ServiceProvisioning\_Request operation

To request for the one-time service provisioning information, the EEC shall send an HTTP POST request (custom operation: "Request") to the ECS with the request URI set to"{apiRoot}/eecs-serviceprovisioning/<apiVersion>/request". And the body including the ECSServProvReq data structure, as specified in clause 8.1.5.2.2.

Upon receiving the HTTP POST message from the EEC, the ECS shall:

a) process the EEC service provisioning request information;

b) verify and check if the EEC is authorized to request service provisioning information from ECS;

c) if the EEC is authorized to request service provisioning information from ECS, then the ECS:

1) may obtain the UE's location as specified in clause 5.3 of 3GPP TS 29.122 [3];

2) if AC profile(s) are provided by the EEC, the ECS identifies the EES(s) based on the provided AC profile(s) and the UE location;

i) if acSvcContSupp information is included in the AC Profile, the matching EES has to support ACRScenario indicated in the acSvcContSupp information; and

ii) For each AC Profile, if eass information is included in the AC Profile, the ECS identifies the matching EES such that the EES profile matches easId information.

3) if AC profiles(s) are not provided:

i. if available, the ECS identifies the EES(s) based on the UE-specific service information at the ECS and the UE location; and

ii. ECS identifies the EES(s) by applying the ECSP policy (e.g. based on the UE location);

the ECS also determines other information that needs to be provisioned, e.g. identification of the EDN, EDN service area, EES endpoints; and

d) if the ECS is able to determine service provisioning information using the inputs in service provisioning request, UE-specific service information at the ECS or the ECSP's policy, then the ECS returns an HTTP "200 OK" status code response with the response body including the ECSServProvResp data structure which may include the lifetime of the provided EDN configuration information.

If the inputs in service provisioning request do not match any EDN configuration information (i.e. there is no client side error), the ECS sends an HTTP "204 No Content" status response code.

Otherwise, the ECS shall reject the service provisioning request and respond with an appropriate failure cause.

The EEC may cache the service provisioning information (e.g. EES endpoint). If the lifeTime attribute is included in the service provisioning response, then the EEC may cache and reuse the service provisioning information only for the duration specified by the lifeTime attribute.

Note: How EEC maintains the service provisioning information is implementation specific.

\* \* \* Next Change \* \* \* \*

##### 7.2.2.4.2 ECS notifying the service provisioning information to EEC using Eecs\_ServiceProvisioning\_Notify operation

The ECS determines to notify the EEC with the service provisioning information, when an event occurs at the ECS that satisfies trigger conditions for updating service provisioning of a subscribed EEC.

The ECS may obtain the UE's location as specified in clause 5.3 of 3GPP TS 29.122 [3]. If AC profile(s) were provided by the EEC during subscription creation, the ECS identifies the EES(s) based on the provided AC profile(s) and the UE location. If AC profiles(s) were not provided, then if available, the ECS identifies the EES(s) based on the UE-specific service information at the ECS and the UE location; The ECS may also identify the EES(s) by applying the ECSP policy (e.g. based only on the UE location). The ECS also determines other information that needs to be provisioned, e.g. identification of the EDN, EDN service area, EES endpoints.

Note 1: How ECS identifies the EES(s) based on the provided AC profile(s) and the UE location is implementation specific.

To notify the service provisioning information events, the ECS shall send an HTTP POST message using the Notification Destination URI received in the subscription request, as specified in clause 8.1.4.2.

Upon receiving the HTTP POST message, the EEC shall process the service provisioning information. The EEC may cache the service provisioning information (e.g. EES endpoint). If the lifeTime attribute is included in the service provisioning response, then the EEC may cache and reuse the service provisioning information only for the duration specified by the lifeTime attribute. If the ECS provids information regarding the service continuity support of individual EESs, the EEC may take this information into account when selecting an EES for EEC registration, EAS discovery or T-EAS discovery, respectively.

Note 2: How the EEC maintains the service provisioning information is implementation specific.

\* \* \* Next Change \* \* \* \*

##### 7.2.2.5.2 EEC updating service provisioning information subscription at ECS using Eecs\_ServiceProvisioning\_UpdateSubscription operation

To update service provisioning information subscription at the ECS, the EEC shall send an HTTP PATCH message (for partial modification) or HTTP PUT message (for fully replacement) to the ECS on resource URI identifying the Individual Service Provisioning Subscription resource representation, as specified in clause 8.1.2.4.3.3 for an HTTP PATCH message and in clause 8.1.2.4.3.1 for an HTTP PUT message.

The PATCH message includes the parameters (AC Profiles, proposed expiry time, service continuity support or list of connectivity information) that need to be replaced in the existing subscription resource.

The PUT message shall replace all properties of the existing resource with the service provisioning information in the request. The values of the eecId and ueId provided during the subscription creation shall not be changed.

Upon receiving the HTTP PATCH or PUT message from the EEC, the ECS:

a) shall check the update subscription message from the EEC to see if the EEC is authorized to modify the requested subscription resource;

b) if the EEC is authorized to update the service provisioning subscription and the eecId of the requesting EEC and the eecId in the resource match, then the ECS;

1) may obtain the UE's location as specified in clause 5.3 of 3GPP TS 29.122 [3];

2) shall update the resource identified by Resource URI of the service provisioning subscription with the updated information received in the HTTP PATCH or PUT request message;

3) shall return the service provisioning subscription response. The ECS may send "200 OK" response code which includes the subscription identifier and the expiration time, indicating when the subscription will automatically expire. Otherwise, the EES sends "204 No Content" response code.

If the expiration time is provided, the EEC shall send a service provisioning subscription update request prior to the expiration time if the EEC wants to maintain the subscription. If a service provisioning subscription update request is not received prior to the expiration time, the ECS shall treat the EEC as implicitly unsubscribed and remove the corresponding service provisioning subscription resource.

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