**3GPP TSG-CT WG1 Meeting #134-eC1-221652**

**E-Meeting, 17th – 25th February 2022**

**Source: Samsung, NEC**

**Title: Pseudo-CR on removing Editor Notes in Eees\_EECRegistration\_Update and Eecs\_ServiceProvisioning\_Request**

**Spec: 3GPP TS 24.558 v1.1.0**

**Agenda item: 17.2.16**

**Document for: Agreement**

**1. Introduction**

This pCR proposes changes to remove ENs.

**2. Reason for Change**

In CT1#133-e, the tdoc C1-217366was agreed which removed below 2 ENs frrom clause 5.2.2.2.2. However the similar ENs are prersent in clause 5.2.2.3.2 and 7.2.2.2.2. It is required to remove these ENs with similar changes as in clause 5.2.2.2.2:

- Replace below editors notes in Eees\_EECRegistration\_Update operation as specified in clause 5.2.2.3.2 with action items as mentioned in notes for FS etc. to give more clear details.

Editor's note: How EES identifies the EAS(s) based on the provided AC profile(s) is FFS.

Editor's note: When the HTTP PUT message includes multiple AC Profile(s), it is FFS how EES determines the requirements in the AC Profile(s) are fulfilled and how EES indicates to the EEC for which AC Profile the requirement is fulfilled.

* Replace below editors notes in Eecs\_ServiceProvisioning\_Request operation as specified in clause 7.2.2.2.2 with action items as mentioned in notes for FS etc. to give more clear details.

Editor's note: How ECS identifies the EES(s) based on the provided AC profile(s) and the UE location is FFS.

**3. Proposal**

It is proposed to agree the following changes to 3GPP TS24.558 v1.1.0.

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

##### 5.2.2.3.2 EEC updating registration information using Eees\_EECRegistration\_Update operation

To update the EEC registration information at the EES, the EEC shall send an HTTP PATCH request (for partial update) or HTTP PUT message (for fully replacement) to the EES on resource URI identifying the Individual EEC registration resource representation as specified in clause 6.2.2.3.3.3 for an HTTP PUT message or in clause 6.2.2.3.3.1 for an HTTP PUT message.

The PATCH message includes the parameters (AC profiles or proposed expiry time) that need to be replaced in the existing registration information.

The PUT message shall replace all properties of the existing resource with the EEC registration information in the request. The value of the eecId provided during the EEC registration shall not be changed.

Upon receiving the HTTP PATCH or PUT message from the EEC, if the resource URI does not exist, the EES shall respond 404 Not Found error to the EEC. Otherwise, the EES shall:

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

b) if the EEC is authorized to update the registration information and the eecId information in the request and the resource match, then the EES shall;

1) if the AC Profile(s) is included in the HTTP PATCH or PUT message, the EES further determines whether the registered EAS(s) fulfils the requirements that were indicated in the AC Profile(s):

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

ii) For each AC Profile, if EAS(s) information is included in the AC Profile, the EES identifies the matching EAS such that the matching EAS shall:

A) be identified by the easId information; and

B) suffice all information included in the minimumReqSvcKPIs information.

NOTE 1: With respect to expectedSvcKPIs information, it is up to the EES implementation on how to identifies the matching EAS.. When a matching EAS is identified, the EES determines that the corresponding requirements are fulfilled and are supported and shall update the resource identified by Resource URI of the EEC registration information with the updated EEC registration information received in the HTTP PATCH or PUT request message.  
  
When a matching EAS is not identified for even one AC profile, the EES shall reject the request message by sending an HTTP response to the EEC with a status code set to 404 Not Found and indicate the "RESOURCE\_NOT\_FOUND" error in the "cause" attribute of the "ProblemDetails" structure.

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2) return the updated EEC registration information in the response. In the response message, the EES may send "200 OK" response code to provide an updated expiration time to indicate to the EEC when the updated registration will automatically expire. Otherwise, the EES sends "204 No Content" response code.

If the expiration time is provided, the EEC shall send a registration update request prior to the expiration time if the EEC wants to maintain the registration. If a registration update request is not received prior to the expiration time, the EES shall treat the EEC as implicitly de-registered and remove the corresponding EEC registration resource.

Editor's note: Whether eecCntxId can be replaced or not is FFS.

\* \* \* 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 message to the ECS on the "Provisioning Information" resource. The body of the HTTP POST message shall include the unique identifier of the EEC, may include AC profile information, connectivity information, UE location information, as specified in clause 8.1.2.2.4.2.2.

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 as follows:

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 the response to the request, which includes the list of EDN configuration information, e.g. identification of the EDN, EDN service area, and the required information (e.g. URI, IP address) for establishing a connection to the EES, and may include the lifetime of the 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 EES sends "404 Not found" 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.

Editor's note: How the EEC maintains the service provisioning information is FFS.

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