**3GPP TSG-CT WG1 Meeting #130-eC1-213abc**

**Electronic meeting, 20-28 May 2021**

**Source: Huawei, HiSilicon**

**Title: Support of redirection for the Eees\_EECRegistration API**

**Spec: 3GPP TS 24.558 v0.2.0**

**Agenda item: 17.1.2**

**Document for: Agreement**

**1. Introduction**

None.

**2. Reason for Change**

Under the NBI17 WI, it was agreed to enable all (northbound) APIs from Rel-17 to support the redirection functionality as described in clause 5.2.10 of TS 29.122, quote:

### *5.2.10 Redirection handling*

*An HTTP request may be redirected to a different target entity.*

*Upon receipt of an HTTP request from the SCS/AS, when the SCEF redirects the HTTP request to a different target SCEF, the URI of the target SCEF towards which the request is redirected shall be given by the Location header field of the "307 Temporary Redirect" or "308 Permanent Redirect" response. The SCS/AS should then send the HTTP request towards the new target SCEF.*

*Upon receipt of a notification/callback request from the SCEF, when the SCS/AS redirects the notification/callback request to a different target SCS/AS, the URI of the target SCS/AS towards which the notification/callback request is redirected shall be given by the Location header field of the "307 Temporary Redirect" or "308 Permanent Redirect" response. The SCEF should then send the HTTP request towards the new target SCS/AS.*

**3. Conclusions**

It is therefore proposed to support redirection handling of the Eees\_EECRegistration API, as described in clause 5.2.10 of TS 29.122 with the difference that the SCEF is replaced by the EES and the SCS/AS is replaced by the EEC. Redirection seems also suitable for the EDGE APIs exposed to the EEC, as application layer APIs.

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS 24.558 v0.2.0.

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

###### 6.2.2.3.3.1 PUT

This method updates the EEC registration data by completely replacing the existing registration data. This method shall support the URI query parameters specified in table 6.2.2.3.3.1-1.

Table 6.2.2.3.3.1-1: URI query parameters supported by the PUT method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| n/a |  |  |  |  |

This method shall support the request data structures specified in table 6.2.2.3.3.1-2 and the response data structures and response codes specified in table 6.2.2.3.3.1-3.

Table 6.2.2.3.3.1-2: Data structures supported by the PUT Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| EECRegistration | M | 1 | An Individual registration resource to be updated. |

Table 6.2.2.3.3.1-3: Data structures supported by the PUT Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| EECRegistration | M | 1 | 200 OK | An individual EEC registration resource updated successfully. |
| n/a |  |  | 307 Temporary Redirect | Temporary redirection, during resource modification. 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 [3] with the difference that the SCEF is replaced by the EES and the SCS/AS is replaced by the EEC. |
| n/a |  |  | 308 Permanent Redirect | Permanent redirection, during resource modification. 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 [3] with the difference that the SCEF is replaced by the EES and the SCS/AS is replaced by the EEC. |
| NOTE: The manadatory HTTP error status code for the PUT method listed in Table 5.2.6-1 of 3GPP TS 29.122 [3] also apply. | | | | |

Table 6.2.2.3.3.1-4: Headers supported by the PUT method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| n/a |  |  |  |  |

Table 6.2.2.3.3.1-5: Headers supported by the 200 response code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| n/a |  |  |  |  |

Table 6.2.2.3.3.1-6: Links supported by the 200 Response Code on this endpoint

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Resource name | HTTP method or custom operation | Link parameter(s) | Description |
| n/a |  |  |  |  |

Table 6.2.2.3.3.1-7: Headers supported by the 307 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located in an alternative EES. |

Table 6.2.2.3.3.1-8: Headers supported by the 308 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located in an alternative EES. |

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

###### 6.2.2.3.3.2 DELETE

This method deregisters (removes) an existing EEC registration. This method shall support the URI query parameters specified in table 6.2.2.3.3.2-1.

Table 6.2.2.3.3.2-1: URI query parameters supported by the DELETE method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| n/a |  |  |  |  |

This method shall support the request data structures specified in table 6.2.2.3.3.2-2 and the response data structures and response codes specified in table 6.2.2.3.3.2-3.

Table 6.2.2.3.3.1-2: Data structures supported by the DELETE Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| n/a |  |  |  |

Table 6.2.2.3.3.1-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| n/a |  |  | 204 No Content | An individual EEC registration resource deleted successfully. |
| n/a |  |  | 307 Temporary Redirect | Temporary redirection, during resource termination. 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 [3] with the difference that the SCEF is replaced by the EES and the SCS/AS is replaced by the EEC. |
| n/a |  |  | 308 Permanent Redirect | Permanent redirection, during resource termination. 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 [3] with the difference that SCEF is replaced by the EES and the SCS/AS is replaced by the EEC. |
| NOTE: The manadatory HTTP error status code for the DELETE method listed in Table 5.2.6-1 of 3GPP TS 29.122 [3] also apply. | | | | |

Table 6.2.2.3.3.3-4: Headers supported by the DELETE method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| n/a |  |  |  |  |

Table 6.2.2.3.3.3-5: Headers supported by the 204 response code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| n/a |  |  |  |  |

Table 6.2.2.3.3.3-6: Links supported by the 200 Response Code on this endpoint

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Resource name | HTTP method or custom operation | Link parameter(s) | Description |
| n/a |  |  |  |  |

Table 6.2.2.3.3.3-7: Headers supported by the 307 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located in an alternative EES. |

Table 6.2.2.3.3.3-8: Headers supported by the 308 Response Code on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | An alternative URI of the resource located in an alternative EES. |

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