**3GPP TSG-CT WG3 Meeting #122-eC3-223157**

**E-Meeting, 12th – 20th May 2022**

**Source: Nokia, Nokia Shanghai Bell**

**Title: Pseudo-CR on the error cases update to Npcf\_MBSPoliyAuthorization\_Update Service**

**Spec: 3GPP TS 29.537 V0.2.0**

**Agenda item: 17.31 (5MBS)**

**Document for: Approval**

**1. Introduction**

TS 29.537 has been allocated under the 5MBS work item to define the MBS Policy Authorization services.

**2. Reason for Change**

Error cases for Npcf\_MBSPoliyAuthorization\_Update service operation needs to be specified. Error cases as specified in Ts 29.514 are referred and the common error cases applicable to MBS sessions are specified.

**3. Conclusions**

N/A.

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS 29.537 V0.2.0.

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

##### 5.3.2.3.2 MBS Application Session Context Update



Figure 5.3.2.3.2-1: MBS Application Session Context update

1. In order to request the modification of an existing MBS Application Session Context, the NF service consumer (e.g. AF, NEF, MBSF) shall send an HTTP PATCH request to the PCF targeting the URI of the concerned "Individual MBS Application Session Context" resource, with the request body containing the MbsAppSessionCtxtPatch data structure that shall contain the requested modifications to the MBS application service requirements.

2. Upon reception of the HTTP PATCH request from the NF service consumer, the PCF shall authorize the requested modifications of MBS application service requirements based on the information received from the NF service consumer and operator policies that are pre-configured at the PCF.

If the authorization of the requested modifications to the MBS application service requirements is successful, the PCF shall update the associated "Individual MBS Application Session Context" resource accordingly and respond to the NF service consumer with either an HTTP "200 OK" status code with the response body containing a representation of the updated resource within the MbsAppSessionCtxt data structure or an HTTP "204 No Content" status code.

If errors occur when processing the HTTP PATCH request, the PCF shall apply the error handling procedures specified in clause 6.2.7. Editor's Note: Whether the HTTP PUT method should be defined instead of or in addition to the HTTP PATCH method for this service operation is FFS.

Editor's Note: The complete list of Error cases and the related status codes are FFS.

If the updated service information provided in the body of the HTTP PATCH request is rejected because the service is not authorized, the PCF shall reject the request with an HTTP "403 Forbidden" status code including the ProblemDetails data structure with the "cause" attribute set to "REQUESTED\_MBS\_SERVICE\_NOT\_AUTHORIZED".

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

###### 6.2.3.3.3.2 PATCH

This method shall support the URI query parameters specified in table 6.2.3.3.3.2-1.

Table 6.2.3.3.3.2-1: URI query parameters supported by the PATCH method on this resource

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

This method shall support the request data structures specified in table 6.2.3.3.3.2-2 and the response data structures and response codes specified in table 6.2.3.3.3.2-3.

Table 6.2.3.3.3.2-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| MbsAppSessionCtxtPatch | M | 1 | Contains the parameters to request the modification of an existing Individual MBS Application Session Context resource. |

Table 6.2.3.3.3.2-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| MbsAppSessionCtxt | M | 1 | 200 OK | Successful case. The concerned Individual MBS Application Session Context resource is successfully modified and a representation of the updated resource is returned to the NF service consumer in the response body. |
| n/a |  |  | 204 No Content | Successful case. The concerned Individual MBS Application Session Context resource is successfully modified and no content is returned in the response body. |
| RedirectResponse | O | 0..1 | 307 Temporary Redirect | Temporary redirection. The response shall include a Location header field containing an alternative URI of the resource located in an alternative PCF (service) instance. |
| RedirectResponse | O | 0..1 | 308 Permanent Redirect | Permanent redirection. The response shall include a Location header field containing an alternative URI of the resource located in an alternative PCF (service) instance. |
| ProblemDetails | O | 0..1 | 403 Forbidden | (NOTE 2) |
| NOTE 1: The mandatory HTTP error status code for the HTTP PATCH method listed in Table 5.2.7.1-1 of 3GPP TS 29.500 [4] also apply.  NOTE 2: Failure cases are described in clause 6.2.7. | | | | |

Table 6.2.3.3.3.2-4: 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 PCF (service) instance. |
| 3gpp-Sbi-Target-Nf-Id | string | O | 0..1 | Identifier of the target NF (service) instance towards which the request is redirected. |

Table 6.2.3.3.3.2-5: 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 PCF (service) instance. |
| 3gpp-Sbi-Target-Nf-Id | string | O | 0..1 | Identifier of the target NF (service) instance towards which the request is redirected. |

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