**3GPP TSG-CT WG3 Meeting #122-eC3-223156**

**E-Meeting, 12th – 20th May 2022**

**Source: Nokia, Nokia Shanghai Bell**

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

##### 

##### 5.3.2.2.2 MBS Application Session Context Establishment



Figure 5.3.2.2.2-1: MBS Application Session Context establishment

1. In order to request the creation of an MBS Application Session Context, the NF service consumer (e.g. AF, NEF, MBSF) shall send an HTTP POST request to the PCF, as described in step 1of figure 5.3.2.2.2-1, with the request body containing the MbsAppSessionCtxt data structure that shall contain the requested MBS application service requirements.

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

If the MBS application service requirements authorization is successful, the PCF shall create a new "Individual MBS Application Session Context" resource and respond to the NF service consumer with an HTTP "201 Created" status code, including an HTTP Location header field containing the URI of the created "Individual MBS Application Session Context" resource and the response body containing a representation of the created resource within the MbsAppSessionCtxt data structure.

The NF service consumer shall use the URI received in the HTTP Location header in subsequent requests to the PCF targeting the created "Individual MBS Application Session Context" resource.

If errors occur when processing the HTTP POST request, the PCF shall apply the error handling procedures specified in clause 6.2.7. Editor's Note: The complete list of Error cases and the related status codes are FFS.

If the service information provided in the body of the HTTP POST 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".

If the service information provided in the body of the HTTP POST request is invalid, incorrect or insufficient for the PCF to authorize the MBS policy authorization request (e.g. invalid media type or invalid QoS reference), the PCF shall reject the request with an HTTP "400 Bad Request" status code including the ProblemDetails data structure with the "cause" attribute set to "INVALID\_MBS\_SERVICE\_INFORMATION".

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

###### 6.2.3.2.3.1 POST

This method shall support the URI query parameters specified in table 6.2.3.2.3.1-1.

Table 6.2.3.2.3.1-1: URI query parameters supported by the POST method on this resource

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

This method shall support the request data structures specified in table 6.2.3.2.3.1-2 and the response data structures and response codes specified in table 6.2.3.2.3.1-3.

Table 6.2.3.2.3.1-2: Data structures supported by the POST Request Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| MbsAppSessionCtxt | M | 1 | Contains the parameters to create an Individual MBS Application Session Context resource. |

Table 6.2.3.2.3.1-3: Data structures supported by the POST Response Body on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Response  codes | Description |
| MbsAppSessionCtxt | M | 1 | 201 Created | Successful case. An Individual MBS Application Session Context resource is successfully created and a representation of the created resource is returned to the NF service consumer. |
| ProblemDetails | O | 0..1 | 400 Bad Request | (NOTE 2) |
| ProblemDetails | O | 0..1 | 403 Forbidden | (NOTE 2) |
| NOTE 1: The mandatory HTTP error status code for the HTTP POST 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 6.2.3.2.3.1-4: Headers supported by the POST method on this resource

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | Contains the URI of the newly created resource, according to the structure: {apiRoot}/npcf-mbspolicyauth/<apiVersion>/mbs-app-sessions/{mbsAppSessionId} |

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

#### 6.2.7.3 Application Errors

The application errors defined for the Npcf\_MBSPolicyAuthorization service are listed in table 6.2.7.3-1.

Table 6.2.7.3-1: Application errors

|  |  |  |
| --- | --- | --- |
| Application Error | HTTP status code | Description |
| INVALID\_MBS\_SERVICE\_INFORMATION | 400 Bad Request | The HTTP request is rejected because the service information is invalid or insufficient for the PCF to perform the requested action, e.g. invalid media type or invalid QoS reference. |
| REQUESTED\_MBS\_SERVICE\_NOT\_AUTHORIZED | 403 Forbidden | The service information provided in the request is rejected because the service is not authorized. |

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