**3GPP TSG-CT WG4 Meeting #106-eC4-215038**

**E-Meeting, 11th – 15th October 2021**

**Source: China Mobile**

**Title: Pseudo-CR on Notifications**

**Spec: 3GPP TS 29.564 v0.1.0**

**Agenda item: 6.1.9**

**Document for: Decision**

**1. Introduction**

<Introduction part (optional)>

**2. Reason for Change**

API definition section is still missing.

**3. Conclusions**

<Conclusion part (optional)>

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS 29.564 v0.1.0.

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

### 6.1.5 Notifications

#### 6.1.5.1 General

This clause specifies the notifications provided by the Nupf\_EventExposure service.

Notifications shall comply to clause 6.2 of 3GPP TS 29.500 [4] and clause 4.6.2.3 of 3GPP TS 29.501 [5].

Table 6.1.5.1-1: Notifications overview

|  |  |  |  |
| --- | --- | --- | --- |
| Notification | Callback URI | HTTP method or custom operation | Description(service operation) |
| Event Notification | {eventNotificationUri} (This URI is not provided by NF service consumer via Nupf interface, it is provided via N4 interface during the provisioning of Session Reporting Rule) | POST | Notify about the events that UPF exposes and to which the NF service consumer may subscribe to. |
|  |  |  |  |

#### 6.1.5.2 Event Notification

##### 6.1.5.2.1 Description

The Event Notification is used by the UPF to report one or several observed Events to a NF service consumer that has subscribed to such Notifications.

##### 6.1.5.2.2 Notification Definition

 The POST method shall be used for Event Notification and the URI shall be the Event Notification URI provided by the SMF during the provisioning of Session Reporting Rule, see clause 5.33.5 of 3GPP TS 29.244 [15].

Resource URI: **{eventNotificationUri}**

Support of URI query parameters is specified in table 6.1.5.2.2-1.

Table 6.1.5.2.2-1: URI query parameters supported by the POST method

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

Support of request data structures is specified in table 6.1.5.2.2-2, and support of response data structures and response codes is specified in table 6.1.5.2-3.

Table 6.1.5.2.2-2: Data structures supported by the POST Request Body

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | P | Cardinality | Description |
| NotificationData | M | 1 | Representation of the event notification. |

Table 6.1.5.2.2-3: Data structures supported by the POST Response Body

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data type | P | Cardinality | Responsecodes | Description |
| n/a |  |  | 204 No Content | This case represents a successful notification of the event. |
| ProblemDetails | O | 0..1 | 404 Not Found | If the NF Service Consumer does not consider the "eventNotificationUri" or "Notification Correlation ID" is not recognized, the NF Service Consumer shall return "404 Not Found" status code |
| RedirectResponse | O | 0..1 | 307 Temporary Redirect | The NF service consumer shall generate a Location header field containing a URI pointing to the endpoint of another NF Service Consumer instance to which the notification should be sent.If an SCP redirects the message to another SCP then the location header field shall contain the same URI or a different URI pointing to the endpoint of the NF service consumer to which the notification should be sent. |
| RedirectResponse | O | 0..1 | 308 Permanent Redirect | The NF service consumer shall generate a Location header field containing a URI pointing to the endpoint of another NF Service Consumer instance to which the notification should be sent.If an SCP redirects the message to another SCP then the location header field shall contain the same URI or a different URI pointing to the endpoint of the NF service consumer to which the notification should be sent. |
| NOTE: The mandatory HTTP error status codes for the POST method listed in Table 5.2.7.1-1 of 3GPP TS 29.500 [4] other than those specified in the table above also apply, with a ProblemDetails data type (see clause 5.2.7 of 3GPP TS 29.500 [4]). |

Table 6.1.5.2.2-4: Headers supported by the 307 Response Code on this endpoint

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | A URI pointing to the endpoint of the NF service consumer instance to which the request should be sent |

Table 6.1.5.2.2-5: Headers supported by the 308 Response Code on this endpoint

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Data type | P | Cardinality | Description |
| Location | string | M | 1 | A URI pointing to the endpoint of the NF service consumer instance to which the request should be sent |

|  |  |  |  |
| --- | --- | --- | --- |
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|  |  |  |  |  |
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|  |  |  |  |  |
|  |  |  |  |  |
|  |

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