**3GPP TSG CT WG3 Meeting #142 *C3-253xxx***

**Goteborg, SE, 25th – 29th August, 2025 was C3-253341**

**Source: Huawei, Nokia**

**Title: Pseudo-CR on updates and corrections to the service description clauses**

**Spec: 3GPP TS 29.566**

**Agenda item: 19.60 (EnergySys)**

**Document for: Agreement**

**1. Introduction**

A few corrections are needed to complete the definition of the service description clauses of the new Neif\_EventExposure API defined in this TS 29.566.

**2. Reason for Change**

Apply a few necessary corrections (e.g., terminology alignment, typos, incorrect target entity, unnecessary spaces in titles) to the service description clauses of the new Neif\_EventExposure API.

**3. Conclusions**

N/A

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS 29.566 V 1.0.0.

\* \* \* \* Start of changes \* \* \* \*

#### 5.2.2.1 Introduction

The service operations defined for the Neif\_EventExposure Service are shown in table 5.2.2.1-1.

Table 5.2.2.1-1: Neif\_EventExposure Service Operations

|  |  |  |
| --- | --- | --- |
| Service Operation Name | Description | Initiated by |
| Neif\_EventExposure\_Subscribe | This service operation is used by an NF service consumer to create/update an Energy Event Exposure Subscription. | e.g., NEF, AF |
| Neif\_EventExposure\_Unsubscribe | This service operation is used by an NF service consumer to delete an existing Energy Event Exposure Subscription. | e.g., NEF, AF |
| Neif\_EventExposure\_Notify | This service operation is used by the EIF to report energy consumption information related event(s). | EIF |

\* \* \* \* Next changes \* \* \* \*

##### 5.2.2.2.1 General

This service operation is used by an NF service consumer to create/update an Energy Event Exposure Subscription.

The following procedures are supported by the "Neif\_EventExposure\_Subscribe" service operation:

- Energy Event Exposure Subscription Creation.

- Energy Event Exposure Subscription Update.

\* \* \* \* Next changes \* \* \* \*

##### 5.2.2.2.2 Energy Event Exposure Subscription Creation

Figure 5.2.2.2.2-1 depicts a scenario where an NF service consumer requests to create an Energy Event Exposure Subscription (see also clause 4.29 of 3GPP TS 23.502 [3]).



**Figure 5.2.2.2.2-1: Energy Event Exposure Subscription Creation**

1. To subscribe to energy consumption related event(s) reporting, the NF service consumer shall send an HTTP POST request targeting the URI of the "Energy Event Exposure Subscriptions" collection resource, with the request body including the EnergyEeSubsc data structure.

2a. Upon success, the EIF shall respond to the NF service consumer with an HTTP "201 Created" status code with the response body containing the representation of the created resource within the EnergyEeSubsc data structure, and an HTTP "Location" header field containing the URI of the created "Individual Energy Event Exposure Subscription" resource.

2b. On failure, the EIF shall take proper error handling actions, as specified in clause 6.1.7, and respond to the NF service consumer with an appropriate error status code.

\* \* \* \* Next changes \* \* \* \*

##### 5.2.2.2.3 Energy Event Exposure Subscription Update

Figure 5.2.2.2.3-1 depicts a scenario where an NF service consumer requests to update an existing Energy Event Exposure Subscription (see also clause 4.29 of 3GPP TS 23.502 [3]).



**Figure 5.2.2.2.3-1: Energy Event Exposure Subscription Update**

1. In order to request the update of an existing subscription to energy consumption related event(s) reporting, the service consumer shall send an HTTP PUT/PATCH request to the EIF, targeting the URI of the corresponding "Individual Energy Event Exposure Subscription" resource, with the request body including either:

- the updated representation of the resource within the EnergyEeSubsc data structure, in case the HTTP PUT method is used; or

- the requested modifications to the resource within the EnergyEeSubscPatch data structure, in case the HTTP PATCH method is used.

2a. Upon success, the EIF shall update the targeted "Individual Energy Event Exposure Subscription" resource accordingly and respond with either:

- an HTTP "200 OK" status code with the response body containing a representation of the updated "Individual Energy Event Exposure Subscription" resource within the EnergyEeSubsc data structure; or

- an HTTP "204 No Content" status code.

2b. On failure, the EIF shall take proper error handling actions, as specified in clause 6.1.7, and respond to the NF service consumer with an appropriate error status code.

\* \* \* \* Next changes \* \* \* \*

##### 5.2.2.3.1 General

This service operation is used by an NF service consumer to delete an existing Energy Event Exposure Subscription.

The following procedures are supported by the "Neif\_EventExposure\_UnSubscribe" service operation:

- Energy Event Exposure Subscription Deletion.

\* \* \* \* Next changes \* \* \* \*

##### 5.2.2.4.1 General

This service operation is used by the EIF to report energy consumption information related event(s).

The following procedures are supported by the "Neif\_EventExposure\_Notify" service operation:

- Energy Event Exposure Notification.

\* \* \* \* Next changes \* \* \* \*

##### 5.2.2.4.2 Energy Event Exposure Notification

Figure 5.2.2.4.2-1 depicts a scenario where the EIF sends a request to notify a previously subscribed NF service consumer on energy consumption information related event(s) (see also clause 4.29 of 3GPP TS 23.502 [3]).



Figure 5.2.2.4.2-1: Energy Event Exposure Notification

1. In order to notify a previously subscribed NF service consumer on energy consumption information related event(s), the EIF shall send an HTTP POST request to the service consumer with the request URI set to "{notifUri}", where the "notifUri" variable is set to the value received from the NF service consumer during the creation/update of the corresponding Energy Event Exposure Subscription using the procedures defined in clause 5.2.2.2, and the request body including the EnergyEeNotif data structure.

2a. Upon success, the NF service consumer shall respond to the EIF with an HTTP "204 No Content" status code to acknowledge the reception of the notification.

2b. On failure, the NF service consumer shall take proper error handling actions, as specified in clause 6.1.7, and respond to the EIF with an appropriate error status code.

\* \* \* \* End of changes \* \* \* \*