**3GPP TSG-CT3 Meeting #121e C3-222174**

**E-Meeting, 6th – 12th April 2022**

**Source: Huawei**

**Title: Correction to unsubscription to notification of synchronization service capability**

**Spec: 29.565 1.2.0**

**Agenda item: 17.16**

**Document for: Decision**

**1. Introduction**

<Introduction part (optional)>

**2. Reason for Change**

The TSCTSF shall identify the affected AF session(s) and, for each AF session, interact with the PCF by triggering Npcf\_PolicyAuthorization\_Delete when receiving the unsubscription request.

**3. Conclusions**

Make above clarification.

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS 29.565 1.2.0.

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

#### 5.2.2.1 Introduction

Service operations defined for the Ntsctsf\_TimeSynchronization service are shown in table 5.2.2.1-1.

Table 5.2.2.1-1: Ntsctsf\_TimeSynchronization Service Operations

|  |  |  |
| --- | --- | --- |
| Service Operation Name | Description | Initiated by |
| Ntsctsf\_TimeSynchronization\_CapsSubscribe | Allows the NF service consumer to create a subscription to the notification about the capability of time synchronization service for a list of UEs or a DNN/S-NSSAI combination. | NF service consumer (e.g. AF, NEF) |
| Ntsctsf\_TimeSynchronization\_CapsUnsubscribe | Allows the NF service consumer to delete the subscription to the notification about capability of time synchronization service for a list of UEs, a group of UEs or any UE using a DNN/S-NSSAI combination. | NF service consumer (e.g. AF, NEF) |
| Ntsctsf\_TimeSynchronization\_CapsNotify | Allows the TSCTSF to notify the NF service consumer of the capability of time synchronization service. | TSCTSF |
| Ntsctsf\_TimeSynchronization\_ConfigCreate | Allows the NF service consumer to create a time synchronization configuration. | NF service consumer (e.g. AF, NEF) |
| Ntsctsf\_TimeSynchronization\_ConfigUpdate | Allows the NF service consumers to update the time synchronization configuration. | NF service consumer (e.g. AF, NEF) |
| Ntsctsf\_TimeSynchronization\_ConfigDelete | Allows the NF service consumer to delete the time synchronization configuration. | NF service consumer (e.g. AF, NEF) |
| Ntsctsf\_TimeSynchronization\_ConfigUpdateNotify | Allows the TSCTSF to notify the NF service consumer of the state of time synchronization configuration. | TSCTSF |
| Ntsctsf\_TimeSynchronization\_ASTICreate | Allows the NF service consumer to create a 5G access stratum time distribution configuration. | NF service consumer (e.g. AF, NEF) |
| Ntsctsf\_TimeSynchronization\_ASTIUpdate | Allows the NF service consumer to update a 5G access stratum time distribution configuration. | NF service consumer (e.g. AF, NEF) |
| Ntsctsf\_TimeSynchronization\_ASTIDelete | Allows the NF service consumer to delete a 5G access stratum time distribution configuration. | NF service consumer (e.g. AF, NEF) |
| Ntsctsf\_TimeSynchronization\_ASTIGet | Allows the NF service consumer to query the status of the 5G access stratum time distribution configuration. | NF service consumer (e.g. AF, NEF) |

NOTE: The NEF and the AF use the Ntsctsf\_TimeSynchronization service in the same way.

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

##### 5.2.2.3.2 Unsubscription from capability notifications

Figure 5.2.2.3.2-1 illustrates the unsubscription from event notifications.



Figure 5.2.2.3.2-1: Unsubscription from capability notifications

To unsubscribe from event notifications, the NF service consumer shall send an HTTP DELETE request with: "{apiRoot}/ntsctsf-time-sync/<apiVersion>/subscriptions/{subscriptionId}" as Resource URI, where "{subscriptionId}" is the subscription correlation ID of the existing subscription that is to be deleted.

Upon the reception of the HTTP DELETE request, if the received HTTP request is successfully processed and accepted, the TSCTSF shall:

- remove the corresponding subscription;

- identify the affected AF session(s) and, for each AF session, interact with the PCF by triggering Npcf\_PolicyAuthorization\_Delete request message as defined in 3GPP TS 29.514 [20]; and

- send an HTTP "204 No Content" response.

If the HTTP DELETE request from the NF service consumer is not accepted, the TSCTSF shall indicate in the response to HTTP DELETE request the cause for the rejection as specified in clause 6.1.7.

If the TSCTSF determines the received HTTP DELETE request needs to be redirected, the TSCTSF shall send an HTTP redirect response as specified in clause 6.10.9 of 3GPP TS 29.500 [4].

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