**3GPP TSG-CT WG3 Meeting #117eC3-214148**

**E-Meeting, 18th – 27th August 2021**

**Source: Huawei, Nokia, Nokia Shanghai Bell**

**Title: Ntsctsf\_TimeSynchronization\_ConfigUpdate service operation**

**Spec: 3GPP TS 29.abc**

**Agenda item: 17.16**

**Document for: Decision**

**1. Introduction**

<Introduction part (optional)>

**2. Reason for Change**

Ntsctsf\_TimeSynchronization\_ConfigUpdate service operation needs to be specified.

**3. Conclusions**

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS 29.abc.

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

#### 5.2.2.6 Ntsctsf\_TimeSynchronization\_ConfigUpdate

##### 5.2.2.6.1 General

This service operation is used by an NF service consumer to update a time synchronization configuration.

The following procedures using the Ntsctsf\_TimeSynchronization\_ConfigUpdate service operation are supported:

- Updating an existing configuration..

##### 5.2.2.6.2 Updating an existing configuration

Figure 5.2.2.6.2-1 illustrates the updating of an existing configuration.



Figure 5.2.2.6.2-1: Update of a configuration

To update a configuration, the NF service consumer shall send an HTTP PUT request to the resource "{apiRoot}/ntsctsf-time-sync/<apiVersion>/subscriptions/{subscriptionId}/configurations/{configurationId" representing an existing "Individual Time Synchronization Exposure Configuration" resource, as shown in figure 5.2.2.6.2-1, step 1, to modify the configuration.

The TimeSyncExposureConfig data structure provided in the request body shall include:

- the user plane node Id within the "upNodeId" attribute;

NOTE 1: The user plane node Id cannot be changed during the modification.

- the time synchronization distribution method within the "reqDisMethod" attribute;

- the notification URI within the "configNotifUri" attribute;

- the notification correlation Id within the "configNotifId" attribute;

NOTE 2: If the notification URI or notification correlation Id is not changed the previously value is included.

and may include:

* the "gmEnable" attribute set to true if the AF requests 5GS to act as a grandmaster for PTP or gPTP;
* the gandmaster priority with the "gmPrio" attribute;
* the time domian within the "timeDom" attribute;
* the PTP profile within the "ptpProfiles" attribute; and
* the temporal validity condition within the "tempValidity" attribute.

Upon receipt of the corresponding HTTP PUT message, if the request is authorized, theTSCTSF shall update the existing "Individual Time Synchronization Exposure Configuration" resource. Then the TSCTSF shall send a HTTP response including "200 OK" status code with TimeSyncExposureConfig data structure or "204 No Content" status code, as shown in figure 5.2.2.6.2-1, step 2.

Editor's Note: Error/Redirect responses are FFS.

Editor's Note: Interaction with PCF is FFS.

Editor's Note: Whether the user plane node Id and the time synchronization distribution method are mandatory parameters is FFS.

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