**3GPP TSG-CT WG3 Meeting #118eC3-215081**

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

**Source: Huawei**

**Title: Description of Network Functions and Service Operations**

**Spec: 3GPP TS 29.565**

**Agenda item: 17.16**

**Document for: Decision**

**1. Introduction**

<Introduction part (optional)>

**2. Reason for Change**

Descriptions of NF service consumer and TSCTSF need to be specified.

**3. Conclusions**

**4. Proposal**

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

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

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 23.501: "System Architecture for the 5G System; Stage 2".

[3] 3GPP TS 23.502: "Procedures for the 5G System; Stage 2".

[4] 3GPP TS 29.500: "5G System; Technical Realization of Service Based Architecture; Stage 3".

[5] 3GPP TS 29.501: "5G System; Principles and Guidelines for Services Definition; Stage 3".

[6] OpenAPI: "OpenAPI Specification Version 3.0.0", <https://spec.openapis.org/oas/v3.0.0>.

[7] 3GPP TR 21.900: "Technical Specification Group working methods".

[8] 3GPP TS 33.501: "Security architecture and procedures for 5G system".

[9] IETF RFC 6749: "The OAuth 2.0 Authorization Framework".

[10] 3GPP TS 29.510: "5G System; Network Function Repository Services; Stage 3".

[11] IETF RFC 7540: "Hypertext Transfer Protocol Version 2 (HTTP/2)".

[12] IETF RFC 8259: "The JavaScript Object Notation (JSON) Data Interchange Format".

[13] IETF RFC 7807: "Problem Details for HTTP APIs".

[14] 3GPP TS 29.519: "5G System; Usage of the Unified Data Repository service for Policy Control Data, Application Data and Structured Data for Exposure; Stage 3".

[15] 3GPP TS 29.571: "5G System; Common Data Types for Service Based Interfaces Stage 3".

[16] 3GPP TS 29.508: "5G System; Session Management Event Exposure Service; Stage 3".

[17] 3GPP TS 29.522: "5G System; Network Exposure Function Northbound APIs; Stage 3".

[18] IEEE 802.1Q: "Virtual Bridged Local Area Networks".

[x] 3GPP TS 23.503: "Policy and Charging Control Framework for the 5G System".

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

### 6.2.1 Service Description

#### 6.2.1.1 Overview

This service provides:

- Authorization of NF Service Consumer requests for the resource reservation for TSC.

- NF Service Consumer request to reserve or update resources for handling traffic characterized by TSC QoS parameters as described in clause 6.1.3.22 of TS 23.503 [x].

##### 6.2.1.2 Network Functions

##### 6.2.1.2.1 TSCTSF

The TSCTSF supports to:

- receive the request to reserve or update a specific QoS or a specific QoS with additional Alternative QoS for an AF session;

- receive the request to delete the AF session with requested QoS or the AF session with requested QoS including Alternative Service Requirements

- receive the request to subscribe or unsubscribe to the event(s) about the AF session with requested QoS or the AF session with requested QoS including Alternative Service Requirements;

- determine the requested PDB and construct the TSC Assistance Container; and

- Notify the NF service consumer of the event(s).

##### 6.2.1.2.2 NF Service Consumers.

The NF service consumer supports to:

- send the request to reserve or update a specific QoS or a specific QoS with additional Alternative QoS for an AF session;

- send the request to delete the AF session with requested QoS or the AF session with requested QoS including Alternative Service Requirements

- send the request to subscribe or unsubscribe to the event(s); and

- receive the notification of the event(s).

### 6.2.2 Service Operations

#### 6.2.2.1 Introduction

Service operations defined for the Ntsctsf\_QoSandTSCAssistance service are shown in table 6.2.2.1-1.

Table 6.2.2.1-1: Ntsctsf\_TimeSynchronization Service Operations

|  |  |  |
| --- | --- | --- |
| Service Operation Name | Description | Initiated by |
| Ntsctsf\_QoSandTSCAssistance\_Create | Allows the NF service consumer to request the network to provide a specific QoS or a specific QoS with additional Alternative QoS for an AF session. | NF service consumer (e.g. AF, NEF) |
| Ntsctsf\_QoSandTSCAssistance\_Update | Allows the NF service consumer to request the network to update the QoS or the QoS with additional Alternative QoS for an AF session | NF service consumer (e.g. AF, NEF) |
| Ntsctsf\_QoSandTSCAssistance\_Delete | Allows the NF service consumer to request the network to delete the AF session with requested QoS or the AF session with requested QoS including Alternative Service Requirements. | NF service consumer (e.g. AF, NEF) |
| Ntsctsf\_QoSandTSCAssistance\_Notify | Allows the TSCTSF to report the QoS Flow level event(s) to the NF service consumer. | TSCTSF |
| Ntsctsf\_QoSandTSCAssistance\_Subscribe | Allows the NF service consumer to subscribe to the event(s). | NF service consumer (e.g. AF, NEF) |
| Ntsctsf\_QoSandTSCAssistance\_Unsubscribe | Allows the NF service consumer to unsubscribe to the event(s). | NF service consumer (e.g. AF, NEF) |

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

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