**TSG-CT WG3 Meeting #120-e *C3-221188***

**E-Meeting, 17th – 25th February 2022**

**Source: Huawei**

**Title: Support of notification about resources allocation outcome**

**Spec: 3GPP TS 29.565 v1.1.0**

**Agenda item: 17.16**

**Document for: Decision**

**1. Introduction**

<Introduction part (optional)>

**2. Reason for Change**

The detail procedure to support of notification about resources allocation outcome is not specified.

**3. Conclusions**

The detail procedure to support of notification about resources allocation outcome is specified.

**4. Proposal**

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

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

##### 5.3.2.2.1 General

This service operation is used by an NF service consumer to request the network to provide a specific QoS for an AF session.

The following procedures using the Ntsctsf\_QoSandTSCAssistance\_Create service operation are supported:

- Initial provisioning of TSC related service information.

- Subscription to resources allocation outcome

Editor's Note: The detail procedures, e.g. provisioning of QoS monitoring information, are FFS.

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

##### 5.3.2.2.x3 Subscription to resources allocation outcome

The NF service consumer shall use the "EventsSubscReqData" data type as described in clause 5.3.2.2.2 and shall include in the HTTP POST request message:

- if the NF service consumer requests the TSCTSF to provide a notification when the resources associated to the service information have been allocated, an event entry within the "events" attribute with the "event" attribute set to "SUCCESSFUL\_RESOURCES\_ALLOCATION"; and/or

- if the NF service consumer requests the TSCTSF to provide a notification when the resources associated to the service information cannot be allocated, an event entry within the "events" attribute with the "event" attribute set to "FAILED\_RESOURCES\_ALLOCATION".

The TSCTSF shall reply to the NF service consumer as described in clause 5.3.2.2.2.

As result of this action, the TSCTSF shall set the appropriate subscription to notification of resources allocation outcome as described in in 3GPP TS 29.514 [20].

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

##### 5.3.2.3.1 General

This service operation is used by an NF service consumer to request the network to update the QoS and/or additional Alternative QoS for an AF session.

The following procedures using the Ntsctsf\_QoSandTSCAssistance\_Update service operation are supported:

- Modification of TSC related service information.

- Modification of subscription to resources allocation outcome.

Editor's Note: The detail procedures, e.g. Modification of QoS monitoring information, are FFS.

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

##### 5.3.2.3.x3 Modification of subscription to resources allocation outcome

The NF service consumer shall use the HTTP PATCH method to modify the "Events Subscription" sub-resource together with the modifications to the "Individual TSC Application Sessions" resource.

The NF service consumer shall include in the HTTP PATCH request message described in clause 5.3.2.3.2, the updated event subscription information within the "evSubsc" attribute. Within the EventsSubscReqDataRm data type, the NF service consumer shall include the "events" attribute with the "SUCCESSFUL\_RESOURCES\_ALLOCATION" value for the successful resource allocation and/or "FAILED\_RESOURCES\_ALLOCATION" value for the unsuccessful resource allocation to the subscription to resources allocation outcome or include the "events" but without "SUCCESSFUL\_RESOURCES\_ALLOCATION" and/or "FAILED\_RESOURCES\_ALLOCATION" value to indicate the termination of the subscription to resources allocation outcome.

As result of this action, the TSCTSF shall set the appropriate subscription to resources allocation outcome as described in 3GPP TS 29.514 [20].

The TSCTSF shall reply to the NF service consumer as described in clause 5.3.2.3.2.

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

##### 5.3.2.5.1 General

The Ntsctsf\_QoSandTSCAssistance\_Notify service operation enables notification to NF service consumers that the previously subscribed event for the existing TSC application session context occurred or that the TSC application session context is no longer valid.

The following procedures using the Ntsctsf\_QoSandTSCAssistance\_Notify service operation are supported:

- Notification about TSC application session context event.

- Notification about TSC application session context termination.

- Notification about resources allocation outcome.

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

##### 5.3.2.5.x3 Notification about resources allocation outcome

When the TSCTSF receives the notification about resources allocation outcome from the PCF as described in 3GPP TS 29.514 [20], the TSCTSF shall inform the NF service consumer accordingly if the NF service consumer has previously subscribed as described in clauses 5.3.2.2.x1 and 5.3.2.5.x1.

The TSCTSF shall notify the NF service consumer by including the "EventsNotification" data type in the body of the HTTP POST request as described in clause 5.3.2.5.2.

The TSCTSF shall within an instance of "events" attribute include:

- "SUCCESSFUL\_RESOURCES\_ALLOCATION" within the "event" attribute if the "SUCCESSFUL\_RESOURCES\_ALLOCATION" event is received from the PCF or "FAILED\_RESOURCES\_ALLOCATION" within the "event" attribute if the "FAILED\_RESOURCES\_ALLOCATION" event is received from the PCF;

- the identification of the affected service flows (if not all the flows are affected) encoded in the "flowIds" attribute if applicable.

- the reference to the Alternative Service Requirement corresponding alternative QoS parameter set if received from the PCF within the "appliedQosRef" attribute.

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