**3GPP TSG-CT3 Meeting #132eC3-240048**

**e-meeting, 22nd** **– 24th November 2023**

**Source: Nokia, Nokia Shanghai Bell**

**Title: Pseudo-CR on defining the service description clauses of the NSCE**\_**NSAllocation API**

**Spec: 3GPP TS 29.435 V 0.1.1**

**Agenda item: 18.49 (NSCALE)**

**Document for: Agreement**

**1. Introduction**

As specified in clause 9.18 of TS 23.435, the NSCE\_NSAllocation\_Request Service API was defined in order to support the functionality of Network slice allocation in a NSaaS framework by the NSCE server based on the VAL server provided Network slice service profile.

The stage 3 definition of this API in this specification needs hence to be started.

**2. Reason for Change**

Update the definition of the service description clauses of the new NSCE\_NSAllocation\_Request Service API in the new TS 29.435.

**3. Conclusions**

N/A

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS 29.435 V 0.1.1.

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

## 5.19 Network Slice Allocation

### 5.19.1 Service Description

The NSCE\_NSAllocation service exposed by the NSCE Server enables a service consumer to:

- request network slice allocation.

### 5.19.2 Service Operations

#### 5.19.2.1 Introduction

The service operation defined for NSCE\_NSAllocation API is shown in the table 5.19.2.1-1.

Table 5.19.2.1-1: NSCE\_NSAllocation API Service Operations

|  |  |  |
| --- | --- | --- |
| Service operation name | Description | Initiated by |
| NSAllocation\_Request | This service operation is used by a service consumer to request for network slice allocation. | e.g., VAL Server |

#### 5.19.2.2 NSCE\_NSAllocation\_Request

##### 5.19.2.2.1 General

This service operation is used by a service consumer to request network slice allocation from the NSCE Server.

The following procedures are supported by the "NSCE\_NSAllocation\_Request" service operation:

- Network Slice Allocation Request.

##### 5.19.2.2.2 Network Slice Allocation Request

Figure 5.19.2.2.2-1 depicts a scenario where a a service consumer sends a request to the NSCE Server to request network slice allocation (see also clause 9.18 of 3GPP°TS°23.435°[14]).



Figure 5.19.2.2.2-1: Procedure for Network Slice Allocation Request

1. In order to request network slice allocation, the service consumer shall send an HTTP POST request (i.e. custom operation "Request") to the NSCE Server, with the request body containing the NwSliceAllocReq data structure.

2a. Upon success, the NSCE Server shall respond with an HTTP "200 OK" status code with the response body containing network slice allocation related information within the NwSliceAllocResp data structure.

2b. On failure, the appropriate HTTP status code indicating the error shall be returned and appropriate additional error information should be returned in the HTTP POST response body, as specified in clause 6.18.7.

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