**3GPP TSG-CT3 Meeting #132eC3-240045**

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

**Source: Nokia, Nokia Shanghai Bell**

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

**Spec: 3GPP TS 29.435 V 0.1.1**

**Agenda item: 18.49 (NSCALE)**

**Document for: Agreement**

**1. Introduction**

As specified in clause 9.14 of TS 23.435, the NSCE\_NSDiagnostics Service API was defined in order to support the functionality of receiving Network Slice Diagnostics for specified events by the VAL server.

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\_NSDiagnostics 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 \* \* \* \*

## 5.15 Network Slice Diagnostics

### 5.15.1 NSCE\_NSDiagnostics API

#### 5.15.1.1 Service Description

##### 5.15.1.1.1 Overview

As specified in 3GPP TS 23.435 [14], the NSCE\_NSDiagnostics service exposed by the Network Slice Capability Enablement (NSCE) server enables a service consumer (e.g. VAL server) to communicate with the NSCE server for network slice diagnostics over the NSCE-S reference point.

#### 5.15.1.2 Service Operations

##### 5.15.1.2.1 Introduction

The service operation defined for NSCE\_NSDiagnostics API is shown in the table 5.15.1.2.1-1.

Table 5.15.1.2.1-1: Operations of the NSCE\_NSDiagnostics API

|  |  |  |
| --- | --- | --- |
| Service operation name | Description | Initiated by |
| NSCE\_NSDiagnostics\_Request | This service operation is used by a service consumer to request network slice diagnostics from the NSCE server. | e.g., VAL server |

##### 5.15.1.2.2 NSCE\_NSDiagnostics\_Request

###### 5.15.1.2.2.1 General

This service operation is used by a service consumer (e.g., VAL server) to request network slice diagnostics from the NSCE server.

###### 5.15.1.2.2.2 VAL server requesting Network slice diagnostics using NSCE\_NSDiagnostics\_Request service operation

Figure 5.15.1.2.2.2-1 depicts a scenario where a a service consumer (e.g. VAL Server) sends a request to the NSCE Server to request the network slice diagnostics (as defined in clause 9.14 of 3GPP°TS°23.435°[14]).



Figure 5.15.1.2.2.2-1: Procedure to request Network slice diagnostics

1. In order to request the network slice diagnostics, the service consumer (e.g. VAL Server) shall send an HTTP POST request (i.e. custom operation "Request") to the NSCE server, with the request body containing the NwSliceDiagReq data structure as specified in clause 6.14.1.3.2.

2a. Upon success, the NSCE Server shall respond with an HTTP "200 OK" status code with the response body containing NwSliceDiagRep data structure which shall include the network slice diagnostics report as specified in clause 6.14.1.3.2.

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 6.14.7.

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