**3GPP TSG-CT3 Meeting #132eC3-240196**

**e-meeting, 22nd** **– 24th November 2023 (was C3-240050)**

**Source: Nokia, Nokia Shanghai Bell**

**Title: Pseudo-CR on defining the openAPI 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 new NSCE\_NSAllocation\_Request open 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 \* \* \* \*

# A.19 NSCE\_NSAllocation API

openapi: 3.0.0

info:

title: NSCE Server Network Slice Allocation Service

version: 1.1.0-alpha.1

description: |

NSCE Server Network Slice Allocation Service.

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externalDocs:

description: >

3GPP TS 29.435 V0.2.0; Service Enabler Architecture Layer for Verticals (SEAL);

Network Slice Capability Exposure (NSCE) Server Service(s); Stage 3.

url: https://www.3gpp.org/ftp/Specs/archive/29\_series/29.435/

servers:

- url: '{apiRoot}/nsce-nsa/v1'

variables:

apiRoot:

default: https://example.com

description: apiRoot as defined in clause 6.5 of 3GPP TS 29.549

security:

- {}

- oAuth2ClientCredentials: []

paths:

/request:

post:

summary: Request network slice allocation.

operationId: RequestNSAllocation

tags:

- Network Slice Allocation Request

requestBody:

required: true

content:

application/json:

schema:

$ref: '#/components/schemas/NwSliceAllocReq'

responses:

'200':

description: >

The network slice allocation request is successful received and processed

and the requested network slice allocation information shall be returned in the

response body.

content:

application/json:

schema:

type: array

items:

$ref: '#/components/schemas/NwSliceAllocResp'

minItems: 1

'307':

$ref: 'TS29122\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29122\_CommonData.yaml#/components/responses/308'

'400':

$ref: 'TS29122\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29122\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29122\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29122\_CommonData.yaml#/components/responses/404'

'411':

$ref: 'TS29122\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29122\_CommonData.yaml#/components/responses/413'

'415':

$ref: 'TS29122\_CommonData.yaml#/components/responses/415'

'429':

$ref: 'TS29122\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29122\_CommonData.yaml#/components/responses/500'

'503':

$ref: 'TS29122\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29122\_CommonData.yaml#/components/responses/default'

components:

securitySchemes:

oAuth2ClientCredentials:

type: oauth2

flows:

clientCredentials:

tokenUrl: '{tokenUrl}'

scopes: {}

schemas:

#

# STRUCTURED DATA TYPES

#

NwSliceAllocReq:

description: >

Represents the network slice allocation request.

type: object

properties:

valServiceId:

type: string

description: Represents the VAL service identifier.

valUeIds:

type: array

items:

type: string

minItems: 1

description: Represents the list of VAL UEs ID.

locArea:

$ref: 'TS29122\_CommonData.yaml#/components/schemas/LocationArea5G'

sliceId:

$ref: 'TS29435\_NSCE\_PolicyManagement.yaml#/components/schemas/NetSliceId'

nwSliceServProf:

$ref: 'TS28541\_SliceNrm.yaml#/components/schemas/ServiceProfile'

suppFeat:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

required:

- valServiceId

- locArea

NwSliceAllocResp:

description: >

Represents the network slice allocatoin information.

type: object

properties:

snssai:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Snssai'

nwSliceServProf:

$ref: 'TS28541\_SliceNrm.yaml#/components/schemas/ServiceProfile'

suppFeat:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

required:

- snssai

- nwSliceServProf

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