**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 \* \* \* \*