**3GPP TSG-CT3 Meeting #132e C3-240133**

**Electronic, 22 - 24 January, 2024**

**Source: China Mobile**

**Title: Pseudo-CR on Information Collection in TS 29.abc Network Slice Capability Exposure (NSCE) Server Services**

**Spec: 3GPP TS 29.abc v0.0.0**

**Agenda item: 18.49**

**Document for: Approval**

**1. Introduction**

This document introduces Information Collection in TS 29.abc Network Slice Capability Exposure (NSCE) Server Services.

**2. Reason for Change**

This document introduces Information Collection in TS 29.abc Network Slice Capability Exposure (NSCE) Server Services. TS 23.435 clause 4.7 and 9.8 specify the Information Collection service, where the network slice status collected by the NSCE server could be exposed to other NSCE server(s) if some agreement has been made.

**3. Conclusions**

This document introduces Information Collection in TS 29.abc Network Slice Capability Exposure (NSCE) Server Services, defines the Open API for the new NSCE\_InfoCollection service.

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS 29.abc Network Slice Capability Exposure (NSCE) Server server Services.

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

## A.8 NSCE\_InfoCollection API

openapi: 3.0.0

info:

title: NSCE\_InfoCollection

version: 1.0.0-alpha.1

description: |

NSCE\_InfoCollection Service.

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externalDocs:

description: >

3GPP TS 29.435 V0.1.1; Service Enabler Architecture Layer for Verticals (SEAL);

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

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

servers:

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

variables:

apiRoot:

default: https://example.com

description: apiRoot as defined in clause 5.2.4 of 3GPP TS 29.122

security:

- {}

- oAuth2ClientCredentials: []

paths:

/subscriptions:

post:

summary: Request the creation of an Information Collection Subscription.

operationId: CreateInfoCollectSubscription

tags:

- Information Collection Subscriptions (Collection)

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'201':

description: Created. The Information Collection Subscription is successfully created and a representation of the created Individual Information Collection Subscription resource shall be returned.

content:

application/json:

schema:

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

headers:

Location:

description: >

Contains the URI of the newly created resource, according to the structure:

{apiRoot}/nsce-ic/<apiversion>/subscriptions/{subscriptionId}

required: true

schema:

type: string

'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'

callbacks:

InfoCollectNotif:

'{$request.body#/notifUri}':

post:

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'204':

description: No Content. The Information Collection Notification is successfully received.

'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'

/subscriptions/{subscriptionId}:

parameters:

- name: subscriptionId

in: path

description: >

Represents the identifier of the Information Collection Subscription resource.

required: true

schema:

type: string

get:

summary: Retrieve an existing Individual Information Collection Subscription resource.

operationId: GetIndInfoCollectSubscription

tags:

- Individual Information Collection Subscription (Document)

responses:

'200':

description: OK. The requested Individual Information Collection Subscription resource shall be returned.

content:

application/json:

schema:

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

'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'

'406':

$ref: 'TS29122\_CommonData.yaml#/components/responses/406'

'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'

put:

summary: Request the update of an existing Individual Information Collection Subscription resource.

operationId: UpdateIndInfoCollectSubcription

tags:

- Individual Information Collection Subscription (Document)

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'200':

description: OK. The Individual Information Collection Subscription resource is successfully updated and a representation of the updated resource shall be returned in the response body.

content:

application/json:

schema:

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

'204':

description: No Content. The Individual Information Collection Subscription resource is successfully updated and no content is returned in the response body.

'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'

'501':

$ref: 'TS29122\_CommonData.yaml#/components/responses/501'

'502':

$ref: 'TS29122\_CommonData.yaml#/components/responses/502'

'503':

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

default:

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

patch:

summary: Request the modification of an existing Individual Information Collection Subscription resource.

operationId: ModifyIndInfoCollectSubscription

tags:

- Individual Information Collection Subscription (Document)

requestBody:

required: true

content:

application/merge-patch+json:

schema:

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

responses:

'200':

description: >

OK. The Individual Information Collection Subscription resource is successfully modified and a representation of the updated resource shall be returned in the response body.

content:

application/json:

schema:

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

'204':

description: >

No Content. The Individual Information Collection Subscription resource is successfully modified and no content is returned in the response body.

'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'

'406':

$ref: 'TS29122\_CommonData.yaml#/components/responses/406'

'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'

delete:

summary: Request the deletion of an existing Individual Information Collection Subscription resource.

operationId: DeleteIndInfoCollectSubcription

tags:

- Individual Information Collection Subscription (Document)

responses:

'204':

description: No Content. The Individual Information Collection Subscription resource is successfully deleted.

'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'

'429':

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

'500':

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

'501':

$ref: 'TS29122\_CommonData.yaml#/components/responses/501'

'502':

$ref: 'TS29122\_CommonData.yaml#/components/responses/502'

'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:

InfoCollectSubsc:

description: Represents an Information Collection subscription.

type: object

properties:

notifUri:

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

collectInfo:

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

expTime:

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

netSlicePerf:

$ref: 'TS29435\_NSCE\_PerfMonitoring.yaml#/components/schemas/ReportingData'

suppFeat:

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

InfoCollectSubscPatch:

description: Represents the requested modifications of an Information Collection subscription.

type: object

properties:

notifUri:

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

collectInfo:

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

expTime:

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

InfoCollectNotif:

description: Represents an Information Collection Notification.

type: object

properties:

subscriptionId:

type: string

description: Contains the identifier of the subscription to which notification is related.

netSlicePerf:

$ref: 'TS29435\_NSCE\_PerfMonitoring.yaml#/components/schemas/ReportingData'

CollectInfo:

type: object

properties:

snssai:

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

qosMetric:

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

repPeriod:

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

immRepFlag:

type: boolean

description: Identifies the request needs immediate reporting or not.

QoSMetric:

type: object

properties:

qosType:

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

qosThreshold:

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

QoSThreshold:

type: object

properties:

latency:

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

throughput:

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

jitter:

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

#

# ENUMERATIONS DATA TYPES

#

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