**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 \* \* \* \*