**3GPP TSG-CT WG3 Meeting #134 *C3-242286***

**Changsha, China, 15 - 19 April, 2024 *(Revision of C3-242xxx)***

|  |
| --- |
| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** |  | **rev** | **-** | **Current version:** | **18.0.0** |  |
|  |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
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|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **x** |

|  |
| --- |
|  |
| ***Title:***  | Definition of the OpenAPI file of the NSCE\_ServiceContinuity API |
|  |  |
| ***Source to WG:*** | Huawei, Lenovo |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** | NSCALE |  | ***Date:*** | 2024-03-30 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | Rel-18 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
|  |  |
| ***Reason for change:*** | As specified in clause 9.9 of TS 23.435, 5GS is required to provide suitable APIs to allow a trusted third-party to check whether the serving slice is available and can offer the same performance at the target EDN in edge based NSCE deployments. The NSCE\_ServiceContinuity Service API is being defined and has reached a level that enables the corresponding stage 3 work to start. |
|  |  |
| ***Summary of change:*** | Definition of the OpenAPI file of the new NSCE\_ServiceContinuity API. |
|  |  |
| ***Consequences if not approved:*** | Not fullfilled Stage 2 requirements. |
|  |  |
| ***Clauses affected:*** | A.9(new) |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** | This CR introduces a new OpenAPI file for the NSCE\_ServiceContinuity API. |
|  |  |
| ***This CR's revision history:*** |  |

**Additional discussion(if needed):**

**Proposed changes:**

\*\*\* 1st Change \*\*\*

# A.9 NSCE\_ServiceContinuity API

openapi: 3.0.0

info:

 title: NSCE Server Edge Service Continuity Service

 version: 1.0.0-alpha.3

 description: |

 NSCE Server Edge Service Continuity Service.

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externalDocs:

 description: >

 3GPP TS 29.435 V18.1.0; 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-esc/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: Enables to request Edge service continuity requirement.

 operationId: EdgeSCRequirementReq

 tags:

 - Edge Service Continuity Requirement Request

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '204':

 description: >

 No Content. The Edge service continuity requirement request is successfully

 received and processed.

 '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'

 callbacks:

 EdgeSCRequirementNotif:

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

 post:

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '204':

 description: >

 No Content. The Edge Service Continuity requirement Notification

 is successfully received and processed.

 '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'

 /negotiate:

 post:

 summary: Enables to request Edge service continuity negotiation.

 operationId: EdgeSCNegotiationReq

 tags:

 - Edge Service Continuity Negotiation Request

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '204':

 description: >

 No Content. The Edge service continuity Negotiation request is successfully

 received and processed.

 '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'

 callbacks:

 EdgeSCNegotiationNotif:

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

 post:

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '204':

 description: >

 No Content. The Edge Service Continuity Negotiation Notification is

 successfully received and processed.

 '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

#

 EdgeSCRequirementReq:

 description: >

 Represents the parameters to request Edge Service Continuity Requirement.

 type: object

 properties:

 notifUri:

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

 valServId:

 type: string

 description: >

 The identifier of the VAL service for which the requirement request applies.

 valUeIds:

 type: array

 items:

 type: string

 minItems: 1

 description: >

 The list of VAL UE IDs for which the requirement request applies.

 netSliceId:

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

 servContReq:

 $ref: 'TS29435\_NSCE\_InterPLMNContinuity.yaml#/components/schemas/ServContReq'

 targetServArea:

 $ref: 'TS29435\_NSCE\_NSInfoDelivery.yaml#/components/schemas/ServArea'

 suppFeat:

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

 required:

 - valServId

 - servContReq

 - notifUri

 EdgeSCRequirementNotif:

 description: >

 Represents an Edge Service Continuity Requirement Notification.

 type: object

 properties:

 valServId:

 type: string

 description: >

 The identifier of the VAL service for which the requirement request applies.

 valUeIds:

 type: array

 items:

 type: string

 minItems: 1

 description: >

 The list of VAL UE IDs for which the requirement request applies.

 netSliceId:

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

 tgtNsceServId:

 type: string

 description: >

 Contains the identifier of the target NSCE Server.

 tgtNsceAddr:

 $ref: 'TS29558\_Eees\_EASRegistration.yaml#/components/schemas/EndPoint'

 targetServArea:

 $ref: 'TS29435\_NSCE\_NSInfoDelivery.yaml#/components/schemas/ServArea'

 required:

 - valServId

 - netSliceId

 - tgtNsceServId

 - tgtNsceAddr

 - targetServArea

 EdgeSCNegotiationReq:

 description: >

 Represents the parameters to request Edge Service Continuity Negotiation.

 type: object

 properties:

 notifUri:

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

 valServId:

 type: string

 description: >

 The identifier of the VAL service for which the negotiation request applies.

 valUeIds:

 type: array

 items:

 type: string

 minItems: 1

 description: >

 The list of VAL UE IDs for which the Negotiation request applies.

 netSliceId:

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

 servContReq:

 $ref: 'TS29435\_NSCE\_InterPLMNContinuity.yaml#/components/schemas/ServContReq'

 triggerAction:

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

 appQoSReqs:

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

 suppFeat:

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

 required:

 - valServId

 - servContReq

 - netSliceId

 - notifUri

 EdgeSCNegotiationNotif:

 description: >

 Represents an Edge Service Continuity Negotiation Notification.

 type: object

 properties:

 valServId:

 type: string

 description: >

 The identifier of the VAL service for which the negotiation request applies.

 triggerAction:

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

 required:

 - valServId

 - triggerAction

# SIMPLE DATA TYPES

#

#

# ENUMERATIONS

#

 TriggerAction:

 anyOf:

 - type: string

 enum:

 - SLICE\_LIFECYCLE\_CHG

 - type: string

 description: >

 This string provides forward-compatibility with future extensions to the enumeration

 and is not used to encode content defined in the present version of this API.

 description: |

 Represents the trigger action.

 Possible values are:

 - SLICE\_LIFECYCLE\_CHG: Indicates that the trigger action is slice lifecycle change.

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