**3GPP TSG CT WG3 Meeting #135 *C3-243107r1***

**Hyderabad, IN, 27th – 31st May, 2024**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.435** | **CR** | **0033** | **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** |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Corrections to NSCE\_InterPLMNContinuity data model and open API | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NSCALE | | | | |  | ***Date:*** | | | 2024-05-20 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***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 can be 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:*** | | Following items were identified that require corrections:   1. 6.12.6.2.4 Type: InterPlmnServContNotif - mismatch between data model and open API | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Above indicated clauses are corrected to align data model with open API. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Incorrect stage-3 specification. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6.12.6.2.4, A.13 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 backward compatible corrections to the open API – NSCE\_InterPLMNContinuity API | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\* \* \* \* First change \* \* \* \*

##### 6.12.6.2.4 Type: InterPlmnServContNotif

Table 6.12.6.2.4-1: Definition of type InterPlmnServContNotif

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| valServId | string | M | 1 | Represents the identifier of the VAL service to which the notification is related. |  |
| ueIds | array(string) | O | 1..N | Contains the list of the identifier(s) of the impacted VAL UE(s). |  |
| netSliceId | NetSliceId | M | 1 | Represents the identifier of the network slice to which the notification is related. |  |
| plmnId | PlmnId | M | 1 | Contains the identifier of the PLMN to which the notification is related. |  |
| targetServArea | array(GeographicArea) | M | 1..N | Contains the target service area. |  |

\* \* \* \* Next change \* \* \* \*

# A.13 NSCE\_InterPLMNContinuity API

openapi: 3.0.0

info:

title: NSCE Server Inter-PLMN Service Continuity Service

version: 1.0.0-alpha.3

description: |

NSCE Server Inter-PLMN Service Continuity Service.

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externalDocs:

description: >

3GPP TS 29.435 V18.0.0; Service Enabler Architecture Layer for Verticals (SEAL);

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

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

servers:

- url: '{apiRoot}/nsce-ipc/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 inter-PLMN application service continuity.

operationId: InterPlmnServContReq

tags:

- Inter-PLMN Application Service Continuity Request

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'204':

description: >

No Content. The inter-PLMN application service continuity 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:

InterPlmnServContNotif:

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

post:

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'204':

description: >

No Content. The Inter-PLMN Service Continuity 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

#

InterPlmnServContReq:

description: >

Represents the parameters to request inter-PLMN application service continuity.

type: object

properties:

valServId:

type: string

ueIds:

type: array

items:

type: string

minItems: 1

servContReq:

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

targetPlmnId:

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

netSliceId:

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

targetServArea:

type: array

items:

$ref: 'TS29572\_Nlmf\_Location.yaml#/components/schemas/GeographicArea'

minItems: 1

appQoSReqs:

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

notifUri:

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

suppFeat:

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

required:

- valServId

- servContReq

- targetPlmnId

- netSliceId

- notifUri

AppReqs:

description: >

Represents application QoS requirements.

type: object

properties:

reliability:

format: float

type: number

minimum: 0

maximum: 100

delay:

type: integer

minimum: 1

jitter:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Uint32'

anyOf:

- required: [reliability]

- required: [delay]

- required: [jitter]

InterPlmnServContNotif:

description: >

Represents an Inter-PLMN Service Continuity Notification.

type: object

properties:

valServId:

type: string

ueIds:

type: array

items:

type: string

minItems: 1

netSliceId:

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

plmnId:

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

targetServArea:

type: array

items:

$ref: 'TS29572\_Nlmf\_Location.yaml#/components/schemas/GeographicArea'

minItems: 1

required:

- valServId

- netSliceId

- plmnId

- targetServArea

# SIMPLE DATA TYPES

#

#

# ENUMERATIONS

#

ServContReq:

anyOf:

- type: string

enum:

- EXPECTED\_MIGRATION

- PREDICTED\_MIGRATION

- 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 a service continuity requirement.

Possible values are:

- EXPECTED\_MIGRATION: Indicates that the service continuity requirement is the expected

migration of the VAL application (or a list of VAL UE(s) of the VAL application) to a

target area.

- PREDICTED\_MIGRATION: Indicates that the service continuity requirement is the predicted

migration of the VAL application (or a list of VAL UE(s) of the VAL application) to a

target area.

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