**3GPP TSG-CT3 Meeting #121e C3-222068**

**E-Meeting, 6th – 12th April 2022**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.594** | **CR** | **0098** | **rev** | **-** | **Current version:** | **17.3.0** |  |
|  | | | | | | | | |
| *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:*** | Formatting of description fields | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | SBIProtoc17 | | | | |  | ***Date:*** | | | 2022-03-30 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Formatting of description fields is not consistently applied along the OpenAPI file according to CommonMark Markdown formatting (see <https://spec.commonmark.org/0.27>). | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Update of the description fields to follow the guidelines specified in TS 29.501 (see [C4-220197](https://www.3gpp.org/ftp/tsg_ct/WG4_protocollars_ex-CN4/TSGCT4_107e-bis_meeting/Docs/C4-220197.zip) agreed in CT4 #107-bis-e meeting). | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The documentation of 3GPP OpenAPI descriptions, which is frequently generated automatically with tools from the YAML files, is not formatted as intended and gives an image of low quality documentation. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | A.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 correction to the OpenAPI file of the Nchf\_SpendingLimitControl API | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

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

# A.2 Nchf\_SpendingLimitControl Service API

openapi: 3.0.0

info:

version: 1.2.0-alpha.2

title: Nchf\_SpendingLimitControl

description: |

Nchf Spending Limit Control Service.

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externalDocs:

description: 3GPP TS 29.594 V17.1.0; 5G System; Spending Limit Control Service.

url: 'http://www.3gpp.org/ftp/Specs/archive/29\_series/29.594/'

servers:

- url: '{apiRoot}/nchf-spendinglimitcontrol/v1'

variables:

apiRoot:

default: https://example.com

description: apiRoot as defined in subclause subclause 4.4 of 3GPP TS 29.501

security:

- {}

- oAuth2ClientCredentials:

- nchf-spendinglimitcontrol

paths:

/subscriptions:

post:

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'201':

description: Success

content:

application/json:

schema:

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

headers:

Location:

description: >

Contains the URI of the created individual spending limit resource,

according to the structure:

{apiRoot}/nchf-spendinglimitcontrol/v1/subscriptions/{subscriptionId}

required: true

schema:

type: string

'400':

$ref: 'TS29571\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29571\_CommonData.yaml#/components/responses/404'

'411':

$ref: 'TS29571\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29571\_CommonData.yaml#/components/responses/413'

'415':

$ref: 'TS29571\_CommonData.yaml#/components/responses/415'

'429':

$ref: 'TS29571\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29571\_CommonData.yaml#/components/responses/500'

'503':

$ref: 'TS29571\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29571\_CommonData.yaml#/components/responses/default'

callbacks:

statusNotification:

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

post:

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'204':

description: No Content, Notification was succesfull

'307':

$ref: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

$ref: 'TS29571\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29571\_CommonData.yaml#/components/responses/404'

'411':

$ref: 'TS29571\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29571\_CommonData.yaml#/components/responses/413'

'415':

$ref: 'TS29571\_CommonData.yaml#/components/responses/415'

'429':

$ref: 'TS29571\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29571\_CommonData.yaml#/components/responses/500'

'503':

$ref: 'TS29571\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29571\_CommonData.yaml#/components/responses/default'

subscriptionTermination:

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

post:

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'204':

description: No Content, Notification was succesfull

'307':

$ref: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

$ref: 'TS29571\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29571\_CommonData.yaml#/components/responses/404'

'411':

$ref: 'TS29571\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29571\_CommonData.yaml#/components/responses/413'

'415':

$ref: 'TS29571\_CommonData.yaml#/components/responses/415'

'429':

$ref: 'TS29571\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29571\_CommonData.yaml#/components/responses/500'

'503':

$ref: 'TS29571\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29571\_CommonData.yaml#/components/responses/default'

/subscriptions/{subscriptionId}:

parameters:

- in: path

name: subscriptionId

description: Identifies an individual spending limit retrieval subscription.

required: true

schema:

type: string

put:

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'200':

description: OK. Resource was succesfully modified and representation is returned

content:

application/json:

schema:

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

'307':

$ref: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

$ref: 'TS29571\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29571\_CommonData.yaml#/components/responses/404'

'411':

$ref: 'TS29571\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29571\_CommonData.yaml#/components/responses/413'

'415':

$ref: 'TS29571\_CommonData.yaml#/components/responses/415'

'429':

$ref: 'TS29571\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29571\_CommonData.yaml#/components/responses/500'

'503':

$ref: 'TS29571\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29571\_CommonData.yaml#/components/responses/default'

delete:

responses:

'204':

description: No Content. Resource was succesfully deleted

'307':

$ref: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

$ref: 'TS29571\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29571\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29571\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29571\_CommonData.yaml#/components/responses/404'

'429':

$ref: 'TS29571\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29571\_CommonData.yaml#/components/responses/500'

'503':

$ref: 'TS29571\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29571\_CommonData.yaml#/components/responses/default'

components:

securitySchemes:

oAuth2ClientCredentials:

type: oauth2

flows:

clientCredentials:

tokenUrl: '{nrfApiRoot}/oauth2/token'

scopes:

nchf-spendinglimitcontrol: Access to the Nchf\_SpendingLimitControl API

schemas:

SpendingLimitContext:

description: >

Represents the subscription data structure required for an individual CHF spending limit

subscription.

type: object

properties:

supi:

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

gpsi:

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

policyCounterIds:

type: array

items:

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

minItems: 1

description: >

This is a list of policy counter identifier(s), which identifies policy counters

maintained per subscriber within the CHF.

notifUri:

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

expiry:

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

supportedFeatures:

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

notifId:

type: string

SpendingLimitStatus:

description: >

Represents the data structure presenting the statuses of policy counters.

type: object

properties:

supi:

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

notifId:

type: string

statusInfos:

type: object

additionalProperties:

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

minProperties: 1

description: >

Status of the requested policy counters. The key of the map is the attribute

"policyCounterId".

expiry:

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

supportedFeatures:

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

PolicyCounterInfo:

description: Represents the data structure presenting the policy counter status.

type: object

properties:

policyCounterId:

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

currentStatus:

type: string

description: >

Identifies the policy counter status applicable for a specific policy counter identified

by the policyCounterId. The values (e.g. valid, invalid or any other status) are not

specified. The interpretation and actions related to the defined values are out of scope

of 3GPP.

penPolCounterStatuses:

type: array

items:

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

minItems: 1

description: Provides the pending policy counter status.

required:

- policyCounterId

- currentStatus

PendingPolicyCounterStatus:

description: >

Represents the data structure presenting the pending policy counter status.

type: object

properties:

policyCounterStatus:

type: string

description: >

Identifies the policy counter status applicable for a specific policy counter identified

by the policyCounterId. The values (e.g. valid, invalid or any other status) are not

specified. The interpretation and actions related to the defined values are out of scope

of 3GPP.

activationTime:

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

required:

- policyCounterStatus

- activationTime

PolicyCounterId:

type: string

description: Identifies a policy counter.

SubscriptionTerminationInfo:

description: >

Represents the data structure presenting the indication of the termination of the

subscription.

type: object

properties:

supi:

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

notifId:

type: string

termCause:

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

required:

- supi

TerminationCause:

description: >

Represents the cause for requesting the termination of the subscription to policy counter

status changes.

anyOf:

- type: string

enum:

- REMOVED\_SUBSCRIBER

- type: string

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