**3GPP TSG-CT3 Meeting #120e C3-221670**

**E-Meeting, 17th – 25th February 2022**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** |  | **rev** |  | **Current version:** |  |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Update of OpenAPI version and TS version in externalDocs field | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | China Mobile | | | | | | | | | |
| ***Source to TSG:*** | C3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI17 | | | | |  | ***Date:*** | | | 2022-03-01 |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***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:*** | | CRs modifying the Nbsf\_Management API have been agreed and the version number of the corresponding OpenAPI file thus needs to be incremented following the rules in 3GPP TS 29.501, clause 4.3.1.  The following agreed CRs update the OpenAPI file for Nbsf\_Management API for the present release:   * CR#0137 impacts the OpenAPI file with a backwards compatible feature. * CR#0140 impacts the OpenAPI file with a backwards compatible correction.   As some backward compatible corrections and features (but no backward incompatible changes or backward compatible new features) are added of the present release, the draft version number needs to be increased.  In addition, the description field covering TS information is updated to cover proper line breaks structure, and the URL of the External Docs field is updated to https. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The Nbsf\_Management API version incremented from value "1.2.0-alpha.4" to value "1.2.0-alpha.5", and the TS version in the externalDocs field from 17.3.0 to 17.4.0.  Update of the line breaks in the description field of TS information, and of the URL of the External Docs Field. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Incorrect API version number and TS version in externalDocs field. | | | | | | | | |
|  | |  | | | | | | | | |
| ***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 changes to Nbsf\_Management API. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

**Additional discussion(if needed):**

**…**

**Proposed changes:**

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

# A.2 Nbsf\_Management API

openapi: 3.0.0

info:

version: 1.2.0-alpha.5

title: Nbsf\_Management

description: |

Binding Support Management Service API.

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externalDocs:

description: 3GPP TS 29.521 V17.4.0; 5G System; Binding Support Management Service.

url: 'https://www.3gpp.org/ftp/Specs/archive/29\_series/29.521/'

servers:

- url: '{apiRoot}/nbsf-management/v1'

variables:

apiRoot:

default: https://example.com

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

security:

- {}

- oAuth2ClientCredentials:

- nbsf-management

paths:

/pcfBindings:

post:

summary: Create a new Individual PCF for a PDU Session binding information

operationId: CreatePCFBinding

tags:

- PCF Bindings (Collection)

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'201':

description: The creation of an individual PCF for a PDU Session binding.

content:

application/json:

schema:

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

headers:

Location:

description: 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/nbsf-management/v1/pcfBindings/{bindingId}'

required: true

schema:

type: string

'400':

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

'401':

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

'403':

description: The existing PCF binding information stored in the BSF for the indicated combination is returned.

content:

application/problem+json:

schema:

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

'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'

get:

summary: Read PCF for a PDU Session Bindings information

operationId: GetPCFBindings

tags:

- PCF Bindings (Collection)

parameters:

- name: ipv4Addr

in: query

description: The IPv4 Address of the served UE.

required: false

schema:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv4Addr'

- name: ipv6Prefix

in: query

description: The IPv6 Address of the served UE. The NF service consumer shall append '/128' to the IPv6 address in the attribute value. E.g. '2001:db8:85a3::8a2e:370:7334/128'.

required: false

schema:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv6Prefix'

- name: macAddr48

in: query

description: The MAC Address of the served UE.

required: false

schema:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/MacAddr48'

- name: dnn

in: query

description: DNN.

required: false

schema:

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

- name: supi

in: query

description: Subscription Permanent Identifier.

required: false

schema:

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

- name: gpsi

in: query

description: Generic Public Subscription Identifier

required: false

schema:

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

- name: snssai

in: query

description: The identification of slice.

required: false

content:

application/json:

schema:

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

- name: ipDomain

in: query

description: The IPv4 address domain identifier.

required: false

schema:

type: string

- name: supp-feat

in: query

description: To filter irrelevant responses related to unsupported features

schema:

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

responses:

'200':

description: The individual PCF for a PDU Session binding session binding information resource matching the query parameter(s) is returned.

content:

application/json:

schema:

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

'204':

description: There is no PCF for a PDU Session binding information matching the query parameter(s).

'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'

'406':

$ref: 'TS29571\_CommonData.yaml#/components/responses/406'

'414':

$ref: 'TS29571\_CommonData.yaml#/components/responses/414'

'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'

/pcfBindings/{bindingId}:

delete:

summary: Delete an existing Individual PCF for a PDU Session Binding information

operationId: DeleteIndPCFBinding

tags:

- Individual PCF Binding (Document)

parameters:

- name: bindingId

in: path

description: Represents the individual PCF Session Binding.

required: true

schema:

type: string

responses:

'204':

description: No Content. The Individual PCF session binding information resource is 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'

patch:

summary: Update an existing Individual PCF for a PDU Session Binding information

operationId: UpdateIndPCFBinding

tags:

- Individual PCF for a PDU Session Binding (Document)

parameters:

- name: bindingId

in: path

description: Represents the individual PCF for a PDU Session Binding.

required: true

schema:

type: string

requestBody:

description: Parameters to update the existing PCF for a PDU Session binding

required: true

content:

application/merge-patch+json:

schema:

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

responses:

'200':

description: OK (Successful update of the PCF for a PDU Session binding)

content:

application/json:

schema:

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

'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:

post:

operationId: CreateIndividualSubcription

summary: Create an individual subscription for event notifications from the BSF

tags:

- Subscriptions (Collection)

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'201':

description: Created.

headers:

Location:

description: 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/nsmf-management/v1/subscriptions/{subId}'

required: true

schema:

type: string

content:

application/json:

schema:

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

'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:

myNotification:

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

post:

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'204':

description: No Content, Notification was successful.

'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/{subId}:

put:

operationId: ReplaceIndividualSubcription

summary: Replace an individual subscription for event notifications from the BSF

tags:

- IndividualSubscription (Document)

requestBody:

required: true

content:

application/json:

schema:

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

parameters:

- name: subId

in: path

description: subscription correlation ID

required: true

schema:

type: string

responses:

'200':

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

content:

application/json:

schema:

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

'204':

description: No Content. Resource was successfully modified

'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:

operationId: DeleteIndividualSubcription

summary: Delete an individual subscription for event notifications from the BSF

tags:

- IndividualSubscription (Document)

parameters:

- name: subId

in: path

description: subscription correlation ID

required: true

schema:

type: string

responses:

'204':

description: No Content. Resource was successfully 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'

/pcf-ue-bindings:

post:

summary: Create a new Individual PCF for a UE binding information

operationId: CreatePCFforUEBinding

tags:

- PCF for a UE Bindings (Collection)

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'201':

description: The creation of an individual PCF for a UE binding.

content:

application/json:

schema:

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

headers:

Location:

description: 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/nbsf-management/v1/pcf-ue-bindings/{bindingId}'

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'

get:

summary: Read PCF for a UE Bindings information

operationId: GetPCFForUeBindings

tags:

- PCF for a UE Bindings (Collection)

parameters:

- name: supi

in: query

description: Subscription Permanent Identifier.

required: false

schema:

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

- name: gpsi

in: query

description: Generic Public Subscription Identifier

required: false

schema:

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

- name: supp-feat

in: query

description: To filter irrelevant responses related to unsupported features

schema:

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

responses:

'200':

description: The individual PCF for a UE binding session binding information resource matching the query parameter(s) is returned.

content:

application/json:

schema:

type: array

items:

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

minItems: 0

'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'

'406':

$ref: 'TS29571\_CommonData.yaml#/components/responses/406'

'414':

$ref: 'TS29571\_CommonData.yaml#/components/responses/414'

'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'

/pcf-ue-bindings/{bindingId}:

delete:

summary: Delete an existing Individual PCF for a UE Binding information

operationId: DeleteIndPCFforUEBinding

tags:

- Individual PCF for a UE Binding (Document)

parameters:

- name: bindingId

in: path

description: Represents the individual PCF for a UE Binding.

required: true

schema:

type: string

responses:

'204':

description: No Content. The Individual PCF for a UE binding information resource is 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'

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$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'

patch:

summary: Update an existing Individual PCF for a UE Binding information

operationId: UpdateIndPCFforUEBinding

tags:

- Individual PCF for a UE Binding (Document)

parameters:

- name: bindingId

in: path

description: Represents the individual PCF for a UE Binding.

required: true

schema:

type: string

requestBody:

description: Parameters to update the existing PCF for a UE binding

required: true

content:

application/merge-patch+json:

schema:

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

responses:

'200':

description: OK (Successful update of the PCF for a PDU Session binding)

content:

application/json:

schema:

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

'307':

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

'308':

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

'400':

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

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'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'

components:

securitySchemes:

oAuth2ClientCredentials:

type: oauth2

flows:

clientCredentials:

tokenUrl: '{nrfApiRoot}/oauth2/token'

scopes:

nbsf-management: Access to the Nbsf\_Management API

schemas:

PcfBinding:

description: Identifies an Individual PCF for a PDU Session binding.

type: object

properties:

supi:

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

gpsi:

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

ipv4Addr:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv4Addr'

ipv6Prefix:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv6Prefix'

addIpv6Prefixes:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv6Prefix'

minItems: 1

description: The additional IPv6 Address Prefixes of the served UE.

ipDomain:

type: string

macAddr48:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/MacAddr48'

addMacAddrs:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/MacAddr48'

minItems: 1

description: The additional MAC Addresses of the served UE.

dnn:

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

pcfFqdn:

$ref: 'TS29510\_Nnrf\_NFManagement.yaml#/components/schemas/Fqdn'

pcfIpEndPoints:

type: array

items:

$ref: 'TS29510\_Nnrf\_NFManagement.yaml#/components/schemas/IpEndPoint'

minItems: 1

description: IP end points of the PCF hosting the Npcf\_PolicyAuthorization service.

pcfDiamHost:

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

pcfDiamRealm:

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

pcfSmFqdn:

$ref: 'TS29510\_Nnrf\_NFManagement.yaml#/components/schemas/Fqdn'

pcfSmIpEndPoints:

type: array

items:

$ref: 'TS29510\_Nnrf\_NFManagement.yaml#/components/schemas/IpEndPoint'

minItems: 1

description: IP end points of the PCF hosting the Npcf\_SMPolicyControl service.

snssai:

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

suppFeat:

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

pcfId:

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

pcfSetId:

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

recoveryTime:

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

paraCom:

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

bindLevel:

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

ipv4FrameRouteList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv4AddrMask'

minItems: 1

ipv6FrameRouteList:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv6Prefix'

minItems: 1

required:

- dnn

- snssai

PcfBindingPatch:

description: Identifies an Individual PCF binding used in an HTTP Patch method.

type: object

properties:

ipv4Addr:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv4AddrRm'

ipDomain:

type: string

nullable: true

ipv6Prefix:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv6PrefixRm'

addIpv6Prefixes:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ipv6Prefix'

minItems: 1

description: The additional IPv6 Address Prefixes of the served UE.

nullable: true

macAddr48:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/MacAddr48Rm'

addMacAddrs:

type: array

items:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/MacAddr48'

minItems: 1

description: The additional MAC Addresses of the served UE.

nullable: true

pcfId:

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

pcfFqdn:

$ref: 'TS29510\_Nnrf\_NFManagement.yaml#/components/schemas/Fqdn'

pcfIpEndPoints:

type: array

items:

$ref: 'TS29510\_Nnrf\_NFManagement.yaml#/components/schemas/IpEndPoint'

minItems: 1

description: IP end points of the PCF hosting the Npcf\_PolicyAuthorization service.

pcfDiamHost:

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

pcfDiamRealm:

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

ParameterCombination:

description: Represents the combination used by the BSF to check whether there is an existing PCF binding information.

type: object

properties:

supi:

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

dnn:

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

snssai:

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

ExtProblemDetails:

description: Contains the FQDN or IP endpoints of the existing PCF and the cause value if there is an existing PCF binding information for the indicated combination.

allOf:

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

- $ref: '#/components/schemas/BindingResp'

BindingResp:

description: Contains the binding information for a PCF for a PDU Session.

type: object

properties:

pcfSmFqdn:

$ref: 'TS29510\_Nnrf\_NFManagement.yaml#/components/schemas/Fqdn'

pcfSmIpEndPoints:

type: array

items:

$ref: 'TS29510\_Nnrf\_NFManagement.yaml#/components/schemas/IpEndPoint'

minItems: 1

description: IP end points of the PCF hosting the Npcf\_SMPolicyControl service.

BsfSubscription:

description: Contains the event subscription data

type: object

properties:

events:

type: array

items:

type: string

minItems: 1

description: Contain te subscribed events.

notifUri:

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

notifCorreId:

type: string

description: Notification Correlation ID assigned by the NF service consumer.

typeOfSubs:

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

supi:

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

gpsi:

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

snssaiDnnPairs:

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

suppFeat:

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

required:

- events

- notifUri

- notifCorreId

- supi

BsfNotification:

description: Contains the event notifications.

type: object

properties:

notifCorreId:

type: string

description: Notification Correlation ID assigned by the NF service consumer.

pcfId:

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

pcfSetId:

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

bindLevel:

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

eventNotifs:

type: array

items:

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

minItems: 1

description: Notifications about Individual Events

required:

- notifCorreId

- eventNotifs

BsfEventNotification:

description: Contains an event notification.

type: object

properties:

event:

type: string

description: Indicate an event.

required:

- event

PcfForUeBinding:

description: Identifies an Individual PCF for a UE binding.

type: object

properties:

supi:

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

gpsi:

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

pcfForUeFqdn:

$ref: 'TS29510\_Nnrf\_NFManagement.yaml#/components/schemas/Fqdn'

pcfForUeIpEndPoints:

type: array

items:

$ref: 'TS29510\_Nnrf\_NFManagement.yaml#/components/schemas/IpEndPoint'

minItems: 1

description: IP end points of the PCF hosting the Npcf\_AmPolicyAuthorization service.

pcfId:

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

pcfSetId:

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

bindLevel:

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

suppFeat:

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

required:

- supi

PcfForUeBindingPatch:

description: Identifies the updates of an Individual PCF for a UE binding.

type: object

properties:

pcfForUeFqdn:

$ref: 'TS29510\_Nnrf\_NFManagement.yaml#/components/schemas/Fqdn'

pcfForUeIpEndPoints:

type: array

items:

$ref: 'TS29510\_Nnrf\_NFManagement.yaml#/components/schemas/IpEndPoint'

minItems: 1

description: IP end points of the PCF hosting the Npcf\_AmPolicyAuthorization service.

pcfId:

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

SnssaiDnnPair:

description: Contains a S-NSSAI and DNN combination

type: object

required:

- snssai

- dnn

properties:

dnn:

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

snssai:

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

BindingLevel:

anyOf:

- type: string

enum:

- NF\_SET

- NF\_INSTANCE

- type: string

description: >

This string provides forward-compatibility with future

extensions to the enumeration but is not used to encode

content defined in the present version of this API.

description: >

Possible values are

- "NF\_SET"

- "NF\_INSTANCE"

TypeOfSubscription:

anyOf:

- type: string

enum:

- PDU\_SESSION

- UE

- type: string

description: >

This string provides forward-compatibility with future

extensions to the enumeration but is not used to encode

content defined in the present version of this API.

description: >

Possible values are

- "PDU\_SESSION"

- "UE"

#

BsfSubscriptionResp:

description: It represents a response to a modification or creation request of an Individual Binding Subscription resource. It may contain the notification of the already met events.

anyOf:

- $ref: '#/components/schemas/BsfSubscription'

- $ref: '#/components/schemas/BsfNotification'

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