



Nbsf Management

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OpenAPI

OpenAPI Version: 3.0.0

Info

Description: Binding Support Management Service API

Version: "1.0.0"

Title: Nbsf_Management

Servers

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

Variables:

API Root:

Default: https://example.com

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

Security

- {}

```
- oAuth2ClientCredentials:
  - nbsf-management
```

Paths

/pcfBindings

Method: Post

Request Body:

Required/Optional: true

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/PcfBinding'

Responses:

'201':

Description: The creation of an individual PCF session binding.

Content:

Application/JSON:

Schema:

Reference: '#/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/Optional: true

Schema:

Type: string

'400':

Reference: 'TS29571_CommonData.yaml#/components/responses/400'

'401':

Reference: 'TS29571_CommonData.yaml#/components/responses/401'

'403':

Reference: 'TS29571_CommonData.yaml#/components/responses/403'

'404':

Reference: 'TS29571_CommonData.yaml#/components/responses/404'

'411':

Reference: 'TS29571_CommonData.yaml#/components/responses/411'

'413':

Reference: 'TS29571_CommonData.yaml#/components/responses/413'

'415':

Reference: 'TS29571_CommonData.yaml#/components/responses/415'

'429':

Reference: 'TS29571_CommonData.yaml#/components/responses/429'

'500':

Reference: 'TS29571_CommonData.yaml#/components/responses/500'

'503':

Reference: 'TS29571_CommonData.yaml#/components/responses/503'

Default:**Reference:** 'TS29571_CommonData.yaml#/components/responses/default'**get:****Parameters:**

- **Name:** ipv4Addr
In: query
Description: The IPv4 Address of the served UE.
Required/Optional: false
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv4Addr'
- **Name:** ipv6Prefix
In: query
Description: The IPv6 Address Prefix of the served UE.
Required/Optional: false
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv6Prefix'
- **Name:** macAddr48
In: query
Description: The MAC Address of the served UE.
Required/Optional: false
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/MacAddr48'
- **Name:** dnn
In: query
Description: DNN.
Required/Optional: false
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/Dnn'
- **Name:** supi
In: query
Description: Subscription Permanent Identifier.
Required/Optional: false
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/Supi'
- **Name:** gpsi
In: query
Description: Generic Public Subscription Identifier
Required/Optional: false
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/Gpsi'
- **Name:** snssai
In: query
Description: The identification of slice.
Required/Optional: false
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
- **Name:** ipDomain
In: query
Description: The IPv4 address domain identifier.
Required/Optional: false
Schema:

Type: string

Responses:

'200':
Description: The individual PCF session binding session binding information resource matching the query parameter(s) is returned.
Content:
Application/JSON:
Schema:
Reference: '#/components/schemas/PcfBinding'

'400':
Reference: 'TS29571_CommonData.yaml#/components/responses/400'

'401':
Reference: 'TS29571_CommonData.yaml#/components/responses/401'

'403':
Reference: 'TS29571_CommonData.yaml#/components/responses/403'

'404':
Reference: 'TS29571_CommonData.yaml#/components/responses/404'

'406':
Reference: 'TS29571_CommonData.yaml#/components/responses/406'

'414':
Reference: 'TS29571_CommonData.yaml#/components/responses/414'

'429':
Reference: 'TS29571_CommonData.yaml#/components/responses/429'

'500':
Reference: 'TS29571_CommonData.yaml#/components/responses/500'

'503':
Reference: 'TS29571_CommonData.yaml#/components/responses/503'

Default:
Reference: 'TS29571_CommonData.yaml#/components/responses/default'

/pcfBindings/{bindingId}

delete:

Parameters:

- **Name:** bindingId
In: path
Description: Represents the individual PCF Session Binding.
Required/Optional: true
Schema:
Type: string

Responses:

'204':
Description: No Content. The Individual PCF session binding information resource is deleted.

'400':
Reference: 'TS29571_CommonData.yaml#/components/responses/400'

'401':
Reference: 'TS29571_CommonData.yaml#/components/responses/401'

```

'403':
  Reference: 'TS29571_CommonData.yaml#/components/responses/403'
'404':
  Reference: 'TS29571_CommonData.yaml#/components/responses/404'
'429':
  Reference: 'TS29571_CommonData.yaml#/components/responses/429'
'500':
  Reference: 'TS29571_CommonData.yaml#/components/responses/500'
'503':
  Reference: 'TS29571_CommonData.yaml#/components/responses/503'
Default:
  Reference: '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:
    Type: object
    Properties:
      supi:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Supi'
      gpsi:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Gpsi'
      ipv4Addr:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv4Addr'
      ipv6Prefix:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv6Prefix'
      ipDomain:
        Type: string
      macAddr48:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/MacAddr48'
      dnn:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Dnn'
      pcfFqdn:
        Reference: 'TS29510_Nnrf_NFManagement.yaml#/components/schemas/Fqdn'
      pcfIpEndpoints:
        Type: array
        Items:
          Reference: 'TS29510_Nnrf_NFManagement.yaml#/components/schemas/IpEndPoint'
        minItems: 1

```

Description: IP end points of the PCF or the IP end points of the PCF hosting the Npcf_PolicyAuthorization service. At least one of pcfFqdn or pcfIpEndPoints shall be included if the PCF supports N5 interface. If the pcfIpEndPoints is provided at the PCF level, the transport and port in the pcfIpEndPoints are not required.

pcfDiamHost:

Reference: 'TS29571_CommonData.yaml#/components/schemas/DiameterIdentity'

pcfDiamRealm:

Reference: 'TS29571_CommonData.yaml#/components/schemas/DiameterIdentity'

snssai:

Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'

Required:

- dnn
- snssai

oneOf:

- anyOf:
 - required: [ipv4Addr]
 - required: [ipv6Prefix]
- required: [macAddr48]

External Docs

Description: 3GPP TS 29.521 V15.2.0; 5G System; Binding Support Management Service.

URL: 'http://www.3gpp.org/ftp/Specs/archive/29_series/29.521/'