



Nudm_UECM

The Nudm Context Management Service provides the NF consumer of the information related to UE's transaction information, allows the NF consumer to register and deregister its information for the serving UE in the UDM, and allows the NF consumer to update some UE context information in the UDM.

Reference: 3GPP TS 29.503 Unified Data Management Services, version 15.3.0

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OpenAPI

OpenAPI Version: 3.0.0

Info

Version: '1.1.0.alpha-3'

Title: 'Nudm_UECM'

Description: |

Nudm Context Management Service.

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Servers

URL: '{apiRoot}/nudm-uecm/v1'

Variables:

API Root:

Default: https://example.com

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

Security

- oAuth2ClientCredentials:
 - nudm-uecm
- {}

Paths

{ueId}/registrations/amf-3gpp-access

put:

Summary: register as AMF for 3GPP access

Operation ID: 3GppRegistration

Tags:

- AMF registration for 3GPP access

Parameters:

- **Name:** ueId

In: path

Description: Identifier of the UE

Required/Optional: true

Schema:

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

Request Body:

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/Amf3GppAccessRegistration'

Required/Optional: true

Responses:

'201':

Description: Created

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/Amf3GppAccessRegistration'

Headers:

Location:

description: 'Contains the URI of the newly created resource, according to the structure:

{apiRoot}/nudm-uecm/v1/{ueId}/registrations/amf-3gpp-access'

Required/Optional: true

```
    Schema:
      Type: string
'200':
  Description: OK
  Content:
    Application/JSON:
      Schema:
        Reference: '#/components/schemas/Amf3GppAccessRegistration'
'204':
  Description: No content
'400':
  Reference: 'TS29571_CommonData.yaml#/components/responses/400'
'403':
  Reference: 'TS29571_CommonData.yaml#/components/responses/403'
'404':
  Reference: 'TS29571_CommonData.yaml#/components/responses/404'
'500':
  Reference: 'TS29571_CommonData.yaml#/components/responses/500'
'503':
  Reference: 'TS29571_CommonData.yaml#/components/responses/503'
Default:
  Description: Unexpected error
Callbacks:
deregistrationNotification:
  '{request.body#/deregCallbackUri}':
    Method: Post
    Request Body:
      Required/Optional: true
      Content:
        Application/JSON:
          Schema:
            Reference: '#/components/schemas/DeregistrationData'

Responses:
  '204':
    Description: Successful Notification response
  '400':
    Reference: 'TS29571_CommonData.yaml#/components/responses/400'
  '404':
    Reference: 'TS29571_CommonData.yaml#/components/responses/404'
  '500':
    Reference: 'TS29571_CommonData.yaml#/components/responses/500'
  '503':
    Reference: 'TS29571_CommonData.yaml#/components/responses/503'
Default:
  Description: Unexpected error
pcscfRestorationNotification:
  '{request.body#/pcscfRestorationCallbackUri}':
    Method: Post
    Request Body:
      Required/Optional: true
      Content:
```

Application/JSON:**Schema:****Reference:** '#/components/schemas/PcscfRestorationNotification'**Responses:****'204':****Description:** Successful Notification response**'400':****Reference:** 'TS29571_CommonData.yaml#/components/responses/400'**'404':****Reference:** 'TS29571_CommonData.yaml#/components/responses/404'**'500':****Reference:** 'TS29571_CommonData.yaml#/components/responses/500'**'503':****Reference:** 'TS29571_CommonData.yaml#/components/responses/503'**Default:****Description:** Unexpected error**patch:****Summary:** Update a parameter in the AMF registration for 3GPP access**Operation ID:** Update3GppRegistration**Tags:**

- Parameter update in the AMF registration for 3GPP access

Parameters:

- **Name:** ueId

In: path**Description:** Identifier of the UE**Required/Optional:** true**Schema:****Reference:** 'TS29571_CommonData.yaml#/components/schemas/Supi'

- **Name:** supported-features

In: query**Description:** Features required to be supported by the target NF**Schema:****Reference:** 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'**Request Body:****Content:****application/merge-patch+json:****Schema:****Reference:** '#/components/schemas/Amf3GppAccessRegistrationModification'**Required/Optional:** true**Responses:****'200':****Description:** Expected response to a valid request**Content:****Application/JSON:****Schema:****Reference:** 'TS29571_CommonData.yaml#/components/schemas/PatchResult'**'204':****Description:** Expected response to a valid request

```

'400':
  Reference: 'TS29571_CommonData.yaml#/components/responses/400'
'403':
  Reference: 'TS29571_CommonData.yaml#/components/responses/403'
'404':
  Reference: 'TS29571_CommonData.yaml#/components/responses/404'
'422':
  Description: Unprocessable Request
  Content:
    application/problem+json:
      Schema:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
'500':
  Reference: 'TS29571_CommonData.yaml#/components/responses/500'
'503':
  Reference: 'TS29571_CommonData.yaml#/components/responses/503'
Default:
  Description: Unexpected error
get:
  Summary: retrieve the AMF registration for 3GPP access information
  Operation ID: Get3GppRegistration

Tags:
  - AMF 3Gpp-access Registration Info Retrieval

Parameters:
  - Name: ueId
    In: path
    Description: Identifier of the UE
    Required/Optional: true
    Schema:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
  - Name: supported-features
    In: query
    Schema:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'

Responses:
'200':
  Description: Expected response to a valid request
  Content:
    Application/JSON:
      Schema:
        Reference: '#/components/schemas/Amf3GppAccessRegistration'
'400':
  Reference: 'TS29571_CommonData.yaml#/components/responses/400'
'403':
  Reference: 'TS29571_CommonData.yaml#/components/responses/403'
'404':
  Reference: 'TS29571_CommonData.yaml#/components/responses/404'
'500':
  Reference: 'TS29571_CommonData.yaml#/components/responses/500'

```

'503':
Reference: 'TS29571_CommonData.yaml#/components/responses/503'
Default:
Description: Unexpected error

/{ueid}/registrations/amf-3gpp-access/dereg-amf

Method: Post

Summary: trigger AMF for 3GPP access deregistration

Operation ID: deregAMF

Tags:

- Trigger AMF for 3GPP access deregistration

Parameters:

- **Name:** ueId

In: path

Description: Identifier of the UE

Required/Optional: true

Schema:

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

Request Body:

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/AmfDeregInfo'

Required/Optional: true

Responses:

'204':

Description: No content

'400':

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

'403':

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

'404':

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

'500':

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

'503':

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

Default:

Description: Unexpected error

/{ueid}/registrations/amf-3gpp-access/pei-update

Method: Post

Summary: Updates the PEI in the 3GPP access registration context

Operation ID: PeiUpdate

Tags:

- PEI Update

Parameters:

- **Name:** ueId
- In:** path
- Description:** Identifier of the UE
- Required/Optional:** true
- Schema:**
 - Reference:** 'TS29571_CommonData.yaml#/components/schemas/Supi'

Request Body:

- Content:**
 - Application/JSON:**
 - Schema:**
 - Reference:** '#/components/schemas/PeiUpdateInfo'
- Required/Optional:** true

Responses:

- '204':
 - Description:** No content
- '400':
 - Reference:** 'TS29571_CommonData.yaml#/components/responses/400'
- '403':
 - Reference:** 'TS29571_CommonData.yaml#/components/responses/403'
- '404':
 - Reference:** 'TS29571_CommonData.yaml#/components/responses/404'
- '500':
 - Reference:** 'TS29571_CommonData.yaml#/components/responses/500'
- '503':
 - Reference:** 'TS29571_CommonData.yaml#/components/responses/503'
- Default:**
 - Description:** Unexpected error

/{ueId}/registrations/amf-non-3gpp-access

put:

- Summary:** register as AMF for non-3GPP access
- Operation ID:** Non3GppRegistration

Tags:

- AMF registration for non-3GPP access

Parameters:

- **Name:** ueId
- In:** path
- Description:** Identifier of the UE
- Required/Optional:** true
- Schema:**
 - Reference:** 'TS29571_CommonData.yaml#/components/schemas/Supi'

Request Body:

- Content:**

```

    Application/JSON:
      Schema:
        Reference: '#/components/schemas/AmfNon3GppAccessRegistration'
    Required/Optional: true

Responses:
  '201':
    Description: Created
    Content:
      Application/JSON:
        Schema:
          Reference: '#/components/schemas/AmfNon3GppAccessRegistration'
        Headers:
          Location:
            description: 'Contains the URI of the newly created resource,
according to the structure:
{apiRoot}/nudm-uecm/v1/{ueId}/registrations/amf-non-3gpp-access'
            Required/Optional: true
            Schema:
              Type: string
  '200':
    Description: OK
    Content:
      Application/JSON:
        Schema:
          Reference: '#/components/schemas/AmfNon3GppAccessRegistration'
  '204':
    Description: No Content
  '400':
    Reference: 'TS29571_CommonData.yaml#/components/responses/400'
  '403':
    Reference: 'TS29571_CommonData.yaml#/components/responses/403'
  '404':
    Reference: 'TS29571_CommonData.yaml#/components/responses/404'
  '500':
    Reference: 'TS29571_CommonData.yaml#/components/responses/500'
  '503':
    Reference: 'TS29571_CommonData.yaml#/components/responses/503'
Default:
  Description: Unexpected error
Callbacks:
  deregistrationNotification:
    '{request.body#/deregCallbackUri}':
      Method: Post
      Request Body:
        Required/Optional: true
        Content:
          Application/JSON:
            Schema:
              Reference: '#/components/schemas/DeregistrationData'

      Responses:

```



```

    '204':
      Description: Successful Notification response
    '400':
      Reference: 'TS29571_CommonData.yaml#/components/responses/400'
    '404':
      Reference: 'TS29571_CommonData.yaml#/components/responses/404'
    '500':
      Reference: 'TS29571_CommonData.yaml#/components/responses/500'
    '503':
      Reference: 'TS29571_CommonData.yaml#/components/responses/503'
  Default:
    Description: Unexpected error
pcscfRestorationNotification:
  '{request.body#/pcscfRestorationCallbackUri}':
    Method: Post
    Request Body:
      Required/Optional: true
      Content:
        Application/JSON:
          Schema:
            Reference: '#/components/schemas/PcscfRestorationNotification'

```

Responses:

```

    '204':
      Description: Successful Notification response
    '400':
      Reference: 'TS29571_CommonData.yaml#/components/responses/400'
    '404':
      Reference: 'TS29571_CommonData.yaml#/components/responses/404'
    '500':
      Reference: 'TS29571_CommonData.yaml#/components/responses/500'
    '503':
      Reference: 'TS29571_CommonData.yaml#/components/responses/503'
  Default:
    Description: Unexpected error

```

patch:

Summary: update a parameter in the AMF registration for non-3GPP access

Operation ID: UpdateNon3GppRegistration

Tags:

- Parameter update in the AMF registration for non-3GPP access

Parameters:

- **Name:** ueId
In: path
Description: Identifier of the UE
Required/Optional: true
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/Supi'
- **Name:** supported-features
In: query
Description: Features required to be supported by the target NF

Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'

Request Body:
Content:
application/merge-patch+json:
Schema:
Reference: '#/components/schemas/AmfNon3GppAccessRegistrationModification'
Required/Optional: true

Responses:

'200':
Description: Expected response to a valid request
Content:
Application/JSON:
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/PatchResult'

'204':
Description: Expected response to a valid request

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

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

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

'422':
Description: Unprocessable Request
Content:
application/problem+json:
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'

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

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

Default:
Description: Unexpected error

get:
Summary: retrieve the AMF registration for non-3GPP access information
Operation ID: GetNon3GppRegistration

Tags:
- AMF non-3GPP-access Registration Info Retrieval

Parameters:

- **Name:** ueId
In: path
Description: Identifier of the UE
Required/Optional: true
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
- **Name:** supported-features
In: query

Schema:**Reference:** 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'**Responses:****'200':****Description:** Expected response to a valid request**Content:****Application/JSON:****Schema:****Reference:** '#/components/schemas/AmfNon3GppAccessRegistration'**'400':****Reference:** 'TS29571_CommonData.yaml#/components/responses/400'**'403':****Reference:** 'TS29571_CommonData.yaml#/components/responses/403'**'404':****Reference:** 'TS29571_CommonData.yaml#/components/responses/404'**'500':****Reference:** 'TS29571_CommonData.yaml#/components/responses/500'**'503':****Reference:** 'TS29571_CommonData.yaml#/components/responses/503'**Default:****Description:** Unexpected error

/{ueId}/registrations/smf-registrations

get:**Summary:** retrieve the SMF registration information**Operation ID:** GetSmfRegistration**Tags:**

- SMF SmfRegistration

Parameters:- **Name:** ueId**In:** path**Description:** Identifier of the UE**Required/Optional:** true**Schema:****Reference:** 'TS29571_CommonData.yaml#/components/schemas/VarUeId'- **Name:** single-nssai**In:** query**Content:****Application/JSON:****Schema:****Reference:** 'TS29571_CommonData.yaml#/components/schemas/Snssai'- **Name:** dnn**In:** query**Schema:****Reference:** 'TS29571_CommonData.yaml#/components/schemas/Dnn'- **Name:** supported-features**In:** query

{ueid}/registrations/smf-registrations/{pduSessionId}

Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'

Responses:

'200':
Description: Expected response to a valid request
Content:
Application/JSON:
Schema:
Reference: '#/components/schemas/SmfRegistrationInfo'

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

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

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

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

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

Default:
Description: Unexpected error

{ueid}/registrations/smf-registrations/{pduSessionId}

put:

Summary: register as SMF
Operation ID: Registration

Tags:

- SMF SmfRegistration

Parameters:

- **Name:** ueId
In: path
Description: Identifier of the UE
Required/Optional: true
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/Supi'
- **Name:** pduSessionId
In: path
Description: Identifier of the PDU session
Required/Optional: true
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'

Request Body:

Content:
Application/JSON:
Schema:
Reference: '#/components/schemas/SmfRegistration'

Required/Optional: true

Responses:**'201':****Description:** Created**Content:****Application/JSON:****Schema:****Reference:** '#/components/schemas/SmfRegistration'**Headers:****Location:****description:** 'Contains the URI of the newly created resource, according to the structure:

{apiRoot}/nudm-uecm/v1/{ueId}/registrations/smf-registrations/{pduSessionId}'

Required/Optional: true**Schema:****Type:** string**'200':****Description:** Expected response to a valid request**Content:****Application/JSON:****Schema:****Reference:** '#/components/schemas/SmfRegistration'**'204':****Description:** No content**'400':****Reference:** 'TS29571_CommonData.yaml#/components/responses/400'**'403':****Reference:** 'TS29571_CommonData.yaml#/components/responses/403'**'404':****Reference:** 'TS29571_CommonData.yaml#/components/responses/404'**'500':****Reference:** 'TS29571_CommonData.yaml#/components/responses/500'**'503':****Reference:** 'TS29571_CommonData.yaml#/components/responses/503'**Default:****Description:** Unexpected error**Callbacks:****deregistrationNotification:****'{request.body#/deregCallbackUri}':****Method:** Post**Request Body:****Required/Optional:** true**Content:****Application/JSON:****Schema:****Reference:** '#/components/schemas/DeregistrationData'**Responses:****'204':****Description:** Successful Notification response**'400':****Reference:** 'TS29571_CommonData.yaml#/components/responses/400'

```

    '404':
      Reference: 'TS29571_CommonData.yaml#/components/responses/404'
    '500':
      Reference: 'TS29571_CommonData.yaml#/components/responses/500'
    '503':
      Reference: 'TS29571_CommonData.yaml#/components/responses/503'
  Default:
    Description: Unexpected error
pcscfRestorationNotification:
  '{request.body#/pcscfRestorationCallbackUri}':
    Method: Post
    Request Body:
      Required/Optional: true
      Content:
        Application/JSON:
          Schema:
            Reference: '#/components/schemas/PcscfRestorationNotification'

Responses:
  '204':
    Description: Successful Notification response
  '400':
    Reference: 'TS29571_CommonData.yaml#/components/responses/400'
  '404':
    Reference: 'TS29571_CommonData.yaml#/components/responses/404'
  '500':
    Reference: 'TS29571_CommonData.yaml#/components/responses/500'
  '503':
    Reference: 'TS29571_CommonData.yaml#/components/responses/503'
  Default:
    Description: Unexpected error
delete:
  Summary: delete an SMF registration
  Operation ID: SmfDeregistration

Tags:
  - SMF Deregistration

Parameters:
  - Name: ueId
    In: path
    Description: Identifier of the UE
    Required/Optional: true
    Schema:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Supi'
  - Name: pduSessionId
    In: path
    Description: Identifier of the PDU session
    Required/Optional: true
    Schema:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'
  - Name: smf-set-id

```

In: query
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/NfSetId'

Responses:

'204':
Description: Expected response to a valid request

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

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

'422':
Description: Unprocessable Request
Content:
application/problem+json:
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'

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

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

Default:
Description: Unexpected error

get:

Summary: get an SMF registration
Operation ID: RetrieveSmfRegistration

Tags:

- Retrieve SMF Registration

Parameters:

- **Name:** ueId
In: path
Description: Identifier of the UE
Required/Optional: true
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/Supi'

- **Name:** pduSessionId
In: path
Description: Identifier of the PDU session
Required/Optional: true
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'

Responses:

'200':
Description: Expected response to a valid request
Content:
Application/JSON:
Schema:
Reference: '#/components/schemas/SmfRegistration'

'400':

Reference: 'TS29571_CommonData.yaml#/components/responses/400'
'403':
Reference: 'TS29571_CommonData.yaml#/components/responses/403'
'404':
Reference: 'TS29571_CommonData.yaml#/components/responses/404'
'500':
Reference: 'TS29571_CommonData.yaml#/components/responses/500'
'503':
Reference: 'TS29571_CommonData.yaml#/components/responses/503'
Default:
Description: Unexpected error

/{ueId}/registrations/smsf-3gpp-access

put:

Summary: register as SMSF for 3GPP access
Operation ID: 3GppSmsfRegistration

Tags:

- SMSF registration for 3GPP access

Parameters:

- **Name:** ueId
In: path
Description: Identifier of the UE
Required/Optional: true
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/Supi'

Request Body:

Content:
Application/JSON:
Schema:
Reference: '#/components/schemas/SmsfRegistration'
Required/Optional: true

Responses:

'201':
Description: Created
Content:
Application/JSON:
Schema:
Reference: '#/components/schemas/SmsfRegistration'

Headers:

Location:
description: 'Contains the URI of the newly created resource, according to the structure:
{apiRoot}/nudm-uecm/v1/{ueId}/registrations/smsf-3gpp-access'
Required/Optional: true
Schema:
Type: string
'200':

Description: Expected response to a valid request

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/SmsfRegistration'

'204':

Description: No content

'400':

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

'403':

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

'404':

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

'500':

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

'503':

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

Default:

Description: Unexpected error

delete:

Summary: delete the SMSF registration for 3GPP access

Operation ID: 3GppSmsfDeregistration

Tags:

- SMSF Deregistration for 3GPP Access

Parameters:

- **Name:** ueId
- In:** path
- Description:** Identifier of the UE
- Required/Optional:** true
- Schema:**
- Reference:** 'TS29571_CommonData.yaml#/components/schemas/Supi'
- **Name:** smsf-set-id
- In:** query
- Schema:**
- Reference:** 'TS29571_CommonData.yaml#/components/schemas/NfSetId'

Responses:

'204':

Description: Expected response to a valid request

'400':

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

'404':

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

'422':

Description: Unprocessable Request

Content:

application/problem+json:

Schema:

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

'500':

Reference: 'TS29571_CommonData.yaml#/components/responses/500'
'503':
Reference: 'TS29571_CommonData.yaml#/components/responses/503'
Default:
Description: Unexpected error

get:
Summary: retrieve the SMSF registration for 3GPP access information
Operation ID: Get3GppSmsfRegistration

Tags:

- SMSF 3GPP access Registration Info Retrieval

Parameters:

- **Name:** ueId
In: path
Description: Identifier of the UE
Required/Optional: true
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/Gpsi'
- **Name:** supported-features
In: query
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'

Responses:

'200':
Description: Expected response to a valid request
Content:
Application/JSON:
Schema:
Reference: '#/components/schemas/SmsfRegistration'

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

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

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

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

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

Default:
Description: Unexpected error

/{ueid}/registrations/smsf-non-3gpp-access

put:
Summary: register as SMSF for non-3GPP access
Operation ID: Non3GppSmsfRegistration

Tags:

- SMSF registration for non-3GPP access

Parameters:

- **Name:** ueId
In: path
Description: Identifier of the UE
Required/Optional: true
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/Supi'

Request Body:

Content:
Application/JSON:
Schema:
Reference: '#/components/schemas/SmsfRegistration'
Required/Optional: true

Responses:

'201':
Description: Created
Content:
Application/JSON:
Schema:
Reference: '#/components/schemas/SmsfRegistration'

Headers:

Location:
description: 'Contains the URI of the newly created resource, according to the structure:

{apiRoot}/nudm-uecm/v1/{ueId}/registrations/smsf-non-3gpp-access'

Required/Optional: true
Schema:
Type: string

'200':
Description: Expected response to a valid request
Content:
Application/JSON:
Schema:
Reference: '#/components/schemas/SmsfRegistration'

'204':
Description: No content

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

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

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

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

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

Default:
Description: Unexpected error

delete:

Summary: delete SMSF registration for non 3GPP access

Operation ID: Non3GppSmsfDeregistration

Tags:

- SMSF Deregistration for non-3GPP access

Parameters:

- **Name:** ueId
In: path
Description: Identifier of the UE
Required/Optional: true
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/Supi'
- **Name:** smsf-set-id
In: query
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/NfSetId'

Responses:

- '204':
Description: Expected response to a valid request
- '400':
Reference: 'TS29571_CommonData.yaml#/components/responses/400'
- '404':
Reference: 'TS29571_CommonData.yaml#/components/responses/404'
- '422':
Description: Unprocessable Request
Content:
application/problem+json:
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
- '500':
Reference: 'TS29571_CommonData.yaml#/components/responses/500'
- '503':
Reference: 'TS29571_CommonData.yaml#/components/responses/503'
- Default:**
Description: Unexpected error

get:

Summary: retrieve the SMSF registration for non-3GPP access information

Operation ID: GetNon3GppSmsfRegistration

Tags:

- SMSF non-3GPP access Registration Info Retrieval

Parameters:

- **Name:** ueId
In: path
Description: Identifier of the UE
Required/Optional: true
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/Gpsi'
- **Name:** supported-features
In: query

Schema:**Reference:** 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'**Responses:****'200':****Description:** Expected response to a valid request**Content:****Application/JSON:****Schema:****Reference:** '#/components/schemas/SmsfRegistration'**'400':****Reference:** 'TS29571_CommonData.yaml#/components/responses/400'**'403':****Reference:** 'TS29571_CommonData.yaml#/components/responses/403'**'404':****Reference:** 'TS29571_CommonData.yaml#/components/responses/404'**'500':****Reference:** 'TS29571_CommonData.yaml#/components/responses/500'**'503':****Reference:** 'TS29571_CommonData.yaml#/components/responses/503'**Default:****Description:** Unexpected error

/restore-pcscf

Method: Post**Summary:** Trigger the Restoration of the P-CSCF**Operation ID:** Trigger P-CSCF Restoration**Tags:**

- Trigger P-CSCF Restoration

Request Body:**Content:****Application/JSON:****Schema:****Reference:** '#/components/schemas/TriggerRequest'**Required/Optional:** true**Responses:****'204':****Description:** Successful response**'400':****Reference:** 'TS29571_CommonData.yaml#/components/responses/400'**'403':****Reference:** 'TS29571_CommonData.yaml#/components/responses/403'**'404':****Reference:** 'TS29571_CommonData.yaml#/components/responses/404'**'500':****Reference:** 'TS29571_CommonData.yaml#/components/responses/500'**'501':****Reference:** 'TS29571_CommonData.yaml#/components/responses/501'

'503':
Reference: 'TS29571_CommonData.yaml#/components/responses/503'
Default:
Description: Unexpected error

/{ueid}/registrations/location

get:

Summary: retrieve the target UE's location information

Operation ID: GetLocationInfo

Tags:

- UE Location Information retrieval

Parameters:

- **Name:** ueId
In: path
Description: Identifier of the UE
Required/Optional: true
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/VarUeId'
- **Name:** supported-features
In: query
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'

Responses:

- '200':
Description: Expected response to a valid request
Content:
Application/JSON:
Schema:
Reference: '#/components/schemas/LocationInfo'
 - '400':
Reference: 'TS29571_CommonData.yaml#/components/responses/400'
 - '403':
Reference: 'TS29571_CommonData.yaml#/components/responses/403'
 - '404':
Reference: 'TS29571_CommonData.yaml#/components/responses/404'
 - '500':
Reference: 'TS29571_CommonData.yaml#/components/responses/500'
 - '503':
Reference: 'TS29571_CommonData.yaml#/components/responses/503'
- Default:**
Description: Unexpected error

Components

```

securitySchemes:
  oAuth2ClientCredentials:
    Type: oauth2
    Flows:
      clientCredentials:
        tokenUrl: '{nrfApiRoot}/oauth2/token'
        scopes:
          nudm-uecm: Access to the nudm-uecm API

schemas:
# COMPLEX TYPES:
Amf3GppAccessRegistration:
  Type: object
  Required:
    - amfInstanceId
    - deregCallbackUri
    - guami
    - ratType
  Properties:
    amfInstanceId:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
    supportedFeatures:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
    purgeFlag:
      Reference: '#/components/schemas/PurgeFlag'
    pei:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Pei'
    imsVoPs:
      Reference: '#/components/schemas/ImsVoPs'
    deregCallbackUri:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
    amfServiceNameDereg:
      Reference: 'TS29510_Nnrf_NFManagement.yaml#/components/schemas/ServiceName'
    pcscfRestorationCallbackUri:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
    amfServiceNamePcscfRest:
      Reference: 'TS29510_Nnrf_NFManagement.yaml#/components/schemas/ServiceName'
    initialRegistrationInd:
      Type: boolean
    guami:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Guami'
    backupAmfInfo:
      Type: array
      Items:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/BackupAmfInfo'
      minItems: 1
    drFlag:
      Reference: '#/components/schemas/DualRegistrationFlag'

```

```

ratType:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/RatType'
urrrpIndicator:
  Type: boolean
amfEeSubscriptionId:
  Type: string
epsInterworkingInfo:
  Reference: '#/components/schemas/EpsInterworkingInfo'
ueSrvccCapability:
  Type: boolean
nid:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/Nid'
registrationTime:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
vgmlcAddressIpv4:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv4Addr'
vgmlcAddressIpv6:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv6Addr'
vgmlcFqdn:
  Reference: 'TS29510_Nnrf_NFManagement.yaml#/components/schemas/Fqdn'
Amf3GppAccessRegistrationModification:
Type: object
Required:
  - guami
Properties:
  guami:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Guami'
  purgeFlag:
    Reference: '#/components/schemas/PurgeFlag'
  pei:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Pei'
  imsVoPs:
    Reference: '#/components/schemas/ImsVoPs'
  backupAmfInfo:
    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/BackupAmfInfo'
  epsInterworkingInfo:
    Reference: '#/components/schemas/EpsInterworkingInfo'
  ueSrvccCapability:
    Type: boolean
    nullable: true
EpsInterworkingInfo:
Type: object
Properties:
  epsIwkPgws:
    Description: A map (list of key-value pairs where Dnn serves as key) of EpsIwkPgws

    Type: object
  additionalProperties:
    Reference: '#/components/schemas/EpsIwkPgw'
EpsIwkPgw:

```



```

Type: object
Required:
  - pgwFqdn
  - smfInstanceId
Properties:
  pgwFqdn:
    Type: string
  smfInstanceId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
AmfNon3GppAccessRegistration:
Type: object
Required:
  - amfInstanceId
  - imsVoPs
  - deregCallbackUri
  - guami
  - ratType
Properties:
  amfInstanceId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
  supportedFeatures:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
  purgeFlag:
    Reference: '#/components/schemas/PurgeFlag'
  pei:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Pei'
  imsVoPs:
    Reference: '#/components/schemas/ImsVoPs'
  deregCallbackUri:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
  amfServiceNameDereg:
    Reference: 'TS29510_Nnrf_NFManagement.yaml#/components/schemas/ServiceName'
  pcscfRestorationCallbackUri:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
  amfServiceNamePcscfRest:
    Reference: 'TS29510_Nnrf_NFManagement.yaml#/components/schemas/ServiceName'
  guami:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Guami'
  backupAmfInfo:
    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/BackupAmfInfo'
    minItems: 1
  ratType:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/RatType'
  urrrIndicator:
    Type: boolean
  amfEeSubscriptionId:
    Type: string
  nid:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Nid'
  registrationTime:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'

```

```

vgmlcAddressIpv4:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv4Addr'
vgmlcAddressIpv6:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv6Addr'
vgmlcFqdn:
  Reference: 'TS29510_Nnrf_NFManagement.yaml#/components/schemas/Fqdn'
AmfNon3GppAccessRegistrationModification:
Type: object
Required:
  - guami
Properties:
  guami:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Guami'
  purgeFlag:
    Reference: '#/components/schemas/PurgeFlag'
  pei:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Pei'
  imsVoPs:
    Reference: '#/components/schemas/ImsVoPs'
  backupAmfInfo:
    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/BackupAmfInfo'
SmfRegistration:
Type: object
Required:
  - smfInstanceId
  - pduSessionId
  - singleNssai
  - plmnId
Properties:
  smfInstanceId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
  smfSetId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NfSetId'
  supportedFeatures:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
  pduSessionId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'
  singleNssai:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
  dnn:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Dnn'
  emergencyServices:
    Type: boolean
  pcscfRestorationCallbackUri:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
  plmnId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/PlmnId'
  pgwFqdn:
    Type: string
  epdgInd:

```

```

    Type: boolean
    Default: false
deregCallbackUri:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
registrationReason:
    Reference: '#/components/schemas/RegistrationReason'
registrationTime:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
SmsfRegistration:
Type: object
Required:
  - smsfInstanceId
  - plmnId
Properties:
smsfInstanceId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
smsfSetId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NfSetId'
supportedFeatures:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
plmnId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/PlmnId'
smsfMAPAddress:
    Reference: '#/components/schemas/E164Number'
smsfDiameterAddress:
    Reference: '#/components/schemas/NetworkNodeDiameterAddress'
registrationTime:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
DeregistrationData:
Type: object
Required:
  - deregReason
  - accessType
Properties:
deregReason:
    Reference: '#/components/schemas/DeregistrationReason'
accessType:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/AccessType'
pduSessionId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'
newSmfInstanceId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
PcscfRestorationNotification:
Type: object
Required:
  - supi
Properties:
supi:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Supi'
NetworkNodeDiameterAddress:
Type: object
Required:
  -name

```

```

- realm
Properties:
  name:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/DiameterIdentity'
  realm:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/DiameterIdentity'
TriggerRequest:
  Type: object
  Required:
    - supi
  Properties:
    supi:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Supi'
SmfRegistrationInfo:
  Type: object
  Required:
    - smfRegistrationList
  Properties:
    smfRegistrationList:
      Type: array
      Items:
        Reference: '#/components/schemas/SmfRegistration'
      minItems: 1
AmfDeregInfo:
  Type: object
  Required:
    - deregReason
  Properties:
    deregReason:
      Reference: '#/components/schemas/DeregistrationReason'
LocationInfo:
  Type: object
  Required:
    - registrationLocationInfoList
  Properties:
    supi:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Supi'
    gpsi:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Gpsi'
    registrationLocationInfoList:
      Type: array
      Items:
        Reference: '#/components/schemas/RegistrationLocationInfo'
      minItems: 1
      maxItems: 2
    supportedFeatures:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
RegistrationLocationInfo:
  Type: object
CmInfoReport:
  Type: object
  Required:
    - newCmInfoList

```

```

Properties:
  oldCmInfoList:
    Type: array
    Items:
      Reference: 'TS29518_Namf_EventExposure.yaml#/components/schemas/CmInfo'
    minItems: 1
    maxItems: 2
  newCmInfoList:
    Type: array
    Items:
      Reference: 'TS29518_Namf_EventExposure.yaml#/components/schemas/CmInfo'
    minItems: 1
    maxItems: 2
VgmlcAddress:
  Type: object
  Properties:
    vgmlcAddressIpv4:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv4Addr'
    vgmlcAddressIpv6:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv6Addr'
    vgmlcFqdn:
      Reference: 'TS29510_Nnrf_NFManagement.yaml#/components/schemas/Fqdn'
PeiUpdateInfo:
  Type: object
  Required:
    - pei
  Properties:
    pei:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Pei'
# SIMPLE TYPES:
PurgeFlag:
  Type: boolean
E164Number:
  Type: string
  Pattern: '^[0-9]{1,15}$'
DualRegistrationFlag:
  Type: boolean
# ENUMS:
ImsVoPs:
  anyOf:
    - type: string
      enum:
        - HOMOGENEOUS_SUPPORT
        - HOMOGENEOUS_NON_SUPPORT
        - NON_HOMOGENEOUS_OR_UNKNOWN
    - type: string
DeregistrationReason:
  anyOf:
    - type: string
      enum:
        - UE_INITIAL_REGISTRATION
        - UE_REGISTRATION_AREA_CHANGE
        - SUBSCRIPTION_WITHDRAWN
        - 5GS_TO_EPS_MOBILITY

```

```
- 5GS_TO_EPS_MOBILITY_UE_INITIAL_REGISTRATION
- REREGISTRATION_REQUIRED
- SMF_CONTEXT_TRANSFERRED
- type: string
RegistrationReason:
  anyOf:
    - type: string
      enum:
        - SMF_CONTEXT_TRANSFERRED
    - type: string
```

External Docs

Description: 3GPP TS 29.503 Unified Data Management Services, version 16.3.0

URL: 'http://www.3gpp.org/ftp/Specs/archive/29_series/29.503/'