



Namf_MT

Namf_MT service allows a NF to request information related to capabilities to send MT signaling or data to a target UE. The following are the key functionalities of this NF service.

- Paging UE if UE is in IDLE state and respond other NF after the UE enters CM-CONNECTED state.
- Response to the requester NF if UE is in CONNECTED state.
- Providing the terminating domain selection information for IMS voice to the consumer NF
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OpenAPI

OpenAPI Version: 3.0.0

Info

Version: 1.0.2

Title: Namf_MT

Description: |

AMF Mobile Termination Service

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Servers

URL: '{apiRoot}/namf-mt/v1'

Variables:**API Root:****Default:** https://example.com**Description:** apiRoot as defined in subclause subclause 4.4 of 3GPP TS 29.501

Security

```

- {}
- oAuth2ClientCredentials:
  - namf-mt

```

Paths

```

'/ue-contexts/{ueContextId}':

```

get:**Summary:** Namf_MT Provide Domain Selection Info service Operation**Tags:**

- ueContext (Document)

Operation ID: Provide Domain Selection Info**Parameters:**- **Name:** ueContextId**In:** path**Description:** UE Context Identifier**Required/Optional:** true**Schema:****Type:** string**pattern:** '^(imsi-[0-9]{5,15}|nai-.+|.+)\$'- **Name:** info-class**In:** query**Description:** UE Context Information Class**Schema:****Reference:** '#/components/schemas/UeContextInfoClass'- **Name:** supported-features**In:** query**Description:** Supported Features**Schema:****Reference:** 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'**Responses:**

'200':

Description: Requested UE Context Information returned**Content:****Application/JSON:****Schema:****Reference:** '#/components/schemas/UeContextInfo'

'307':

Description: Temporary Redirect

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

Headers:
Location:
Description: 'The URI of the resource located on the target NF Service Consumer (e.g. AMF) to which the request is redirected'
Required/Optional: true
Schema:
Type: string

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

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

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

'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:
Description: Unexpected error

/ue-contexts/{ueContextId}/ue-reachind

put:

Summary: Namf_MT EnableUERachability service Operation

Tags:
- ueReachInd (Document)

Operation ID: EnableUeReachability

Parameters:
- **Name:** ueContextId
In: path
Description: UE Context Identifier
Required/Optional: true
Schema:
Type: string

Request Body:
Content:
Application/JSON:
Schema:
Reference: '#/components/schemas/EnableUeReachabilityReqData'
Required/Optional: true

```

Responses:
  '200':
    Description: UE has become reachable as desired
    Content:
      Application/JSON:
        Schema:
          Reference: '#/components/schemas/EnableUeReachabilityRspData'
  '307':
    Description: Temporary Redirect
    Content:
      application/problem+json:
        Schema:
          Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
    Headers:
      Location:
        Description: 'The URI of the resource located on the target NF Service Consumer
(e.g. AMF) to which the request is redirected'
        Required/Optional: true
        Schema:
          Type: string
  '400':
    Reference: 'TS29571_CommonData.yaml#/components/responses/400'
  '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'
  '504':
    Reference: 'TS29571_CommonData.yaml#/components/responses/504'
Default:
  Description: Unexpected error

```

Components

```

securitySchemes:
  oAuth2ClientCredentials:
    Type: oauth2

```

```
Flows:
  clientCredentials:
    tokenUrl: '{nrfApiRoot}/oauth2/token'
    scopes:
      namf-mt: Access to the Namf_MT API

schemas:
  EnableUeReachabilityReqData:
    Type: object
    Properties:
      reachability:
        Reference: 'TS29518_Namf_EventExposure.yaml#/components/schemas/UeReachability'
      supportedFeatures:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
    Required:
      - reachability
  EnableUeReachabilityRspData:
    Type: object
    Properties:
      reachability:
        Reference: 'TS29518_Namf_EventExposure.yaml#/components/schemas/UeReachability'
      supportedFeatures:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
    Required:
      - reachability
  UeContextInfo:
    Type: object
    Properties:
      supportVoPS:
        Type: boolean
      supportVoPSn3gpp:
        Type: boolean
      lastActTime:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
      accessType:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/AccessType'
      ratType:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/RatType'
      supportedFeatures:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
  UeContextInfoClass:
    anyOf:
      - type: string
    enum:
      - TADS
    - type: string
```

External Docs

Description: 3GPP TS 29.518 V15.3.0; 5G System; Access and Mobility Management Services

URL: 'http://www.3gpp.org/ftp/Specs/archive/29_series/29.518/'