

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 EnableUEReachability 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/'