



Namf_Communication

This service enables an NF to communicate with the UE through N1 NAS messages or with the AN (both UE and non UE specific). The service operations defined below allow the NF to communicate with the UE and the AN. The following are the key functionalities of this NF service.

- Provide service operations for transporting N1 messages to the UE;
- Allow NFs to subscribe and unsubscribe for notifications of specific N1 messages from the UE;
- Allow NFs to subscribe and unsubscribe for notifications about specific information from AN;
- Provide service operations for initiating N2 messages towards the AN;
- Security Context Management; and
- UE information management and transfer (including its security context).

Reference: 3GPP TS 29.518 [14]

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OpenAPI

OpenAPI Version: 3.0.0

Info

Version: 1.0.0

Title: Namf_Communication

Description: AMF Communication Service

Servers

URL: '{apiRoot}/namf-comm/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-comm
```

Paths

/ue-contexts/{ueContextId}

put:

Summary: Namf_Communication CreateUEContext service Operation

Tags:

- Individual ueContext (Document)

Operation ID: CreateUEContext

Parameters:

- **Name:** ueContextId

In: path

Description: UE Context Identifier

Required/Optional: true

Schema:

Type: string

pattern:

'^(5g-guti-[0-9]{5,6}[0-9a-fA-F]{14}|imsi-[0-9]{5,15}|nai-.+|imei-[0-9]{15}|imeisv-[0-9]{16}|.+)\$'

Request Body:

Content:

Multipart/Related: # message with binary body part(s)

Schema:

Type: object

Properties: # Request parts

JSON Data:

Reference: '#/components/schemas/UeContextCreateData'

binaryDataN1Message:

Type: string

```

        Format: binary
    binaryDataN2Information:
        Type: string
        Format: binary
    binaryDataN2InformationExt1:
        Type: string
        Format: binary
    Encoding:
    JSON Data:
        Content Type: application/json
    binaryDataN1Message:
        Content Type: application/vnd.3gpp.5gnas
    Headers:
        Content ID:
        Schema:
        Type: string
    binaryDataN2Information:
        Content Type: application/vnd.3gpp.ngap
    Headers:
        Content ID:
        Schema:
        Type: string
    binaryDataN2InformationExt1:
        Content Type: application/vnd.3gpp.ngap
    Headers:
        Content ID:
        Schema:
        Type: string
    Required/Optional: true

Responses:
'201':
    Description: UE context successfully created.
    Headers:
    Location:
        description: 'Contains the URI of the newly created resource,
according to the structure: {apiRoot}/namf-comm/v1/ue-contexts/{ueContextId}'
        Required/Optional: true
        Schema:
        Type: string
    Content:
    Application/JSON:
        Schema:
        Reference: '#/components/schemas/UeContextCreatedData'
    Multipart/Related: # message with binary body part(s)
        Schema:
        Type: object
        Properties: # Request parts
        JSON Data:
        Reference: '#/components/schemas/UeContextCreatedData'
    binaryDataN1Message:
        Type: string

```

```

        Format: binary
    binaryDataN2Information:
        Type: string
        Format: binary
    Encoding:
    JSON Data:
        Content Type: application/json
    binaryDataN1Message:
        Content Type: application/vnd.3gpp.5gnas
    Headers:
        Content ID:
        Schema:
            Type: string
    binaryDataN2Information:
        Content Type: application/vnd.3gpp.ngap
    Headers:
        Content ID:
        Schema:
            Type: string
'400':
    Description: Bad Request
    Content:
        Application/JSON:
        Schema:
            Reference: '#/components/schemas/UeContextCreateError'
'403':
    Description: Forbidden
    Content:
        Application/JSON:
        Schema:
            Reference: '#/components/schemas/UeContextCreateError'
'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':
    Description: Internal Server Error
    Content:
        Application/JSON:
        Schema:
            Reference: '#/components/schemas/UeContextCreateError'
'503':
    Reference: 'TS29571_CommonData.yaml#/components/responses/503'
Default:
    Description: Unexpected error

```

/ue-contexts/{ueContextId}/release

Method: Post

Summary: Namf_Communication ReleaseUEContext service Operation

Tags:

- Individual ueContext (Document)

Operation ID: ReleaseUEContext

Parameters:

- **Name:** ueContextId

In: path

Description: UE Context Identifier

Required/Optional: true

Schema:

Type: string

pattern:

'^(5g-guti-[0-9]{5,6}[0-9a-fA-F]{14}|imsi-[0-9]{5,15}|nai-.+|imei-[0-9]{15}|imeisv-[0-9]{16}|.+)\$'

Request Body:

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/UEContextRelease'

Required/Optional: true

Responses:

'204':

Description: UE Context successfully released

'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'

Default:

Description: Unexpected error

/ue-contexts/{ueContextId}/assign-ebi

Method: Post

Summary: Namf_Communication EBI Assignment service Operation

Tags:

- Individual ueContext (Document)

Operation ID: EBIAssignment

Parameters:

- **Name:** ueContextId

In: path

Description: UE Context Identifier

Required/Optional: true

Schema:

Type: string

pattern:

'^(5g-guti-[0-9]{5,6}[0-9a-fA-F]{14}|imsi-[0-9]{5,15}|nai-.+|imei-[0-9]{15}|imeisv-[0-9]{16}|.+)\$'

Request Body:

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/AssignEbiData'

Required/Optional: true

Responses:

'200':

Description: EBI Assignment successfully performed.

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/AssignedEbiData'

'400':

Description: Bad Request

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/AssignEbiError'

'403':

Description: Forbidden

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/AssignEbiError'

'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':

Description: Internal Server Error

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/AssignEbiError'

'503':

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

Default:

Description: Unexpected error

/ue-contexts/{ueContextId}/transfer

Method: Post

Summary: Namf_Communication UEContextTransfer service Operation

Tags:

- Individual ueContext (Document)

Operation ID: UEContextTransfer

Parameters:

- **Name:** ueContextId

In: path

Description: UE Context Identifier

Required/Optional: true

Schema:

Type: string

pattern:

'^(5g-guti-[0-9]{5,6}[0-9a-fA-F]{14}|imsi-[0-9]{5,15}|nai-.+|imei-[0-9]{15}|imeisv-[0-9]{16}|.+)\$'

Request Body:

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/UeContextTransferReqData'

Multipart/Related: # message with binary body part(s)

Schema:

Type: object

Properties: # Request parts

JSON Data:

Reference: '#/components/schemas/UeContextTransferReqData'

binaryDataN1Message:

Type: string

Format: binary

Encoding:

JSON Data:

Content Type: application/json

binaryDataN1Message:

Content Type: application/vnd.3gpp.5gnas

Headers:

Content ID:
Schema:
Type: string
Required/Optional: true

Responses:

'200':
Description: UE context transfer successfully initiated.
Content:
Application/JSON:
Schema:
Reference: '#/components/schemas/UeContextTransferRspData'
Multipart/Related: # message with binary body part(s)
Schema:
Type: object
Properties: # Request parts
JSON Data:
Reference: '#/components/schemas/UeContextTransferRspData'
binaryDataN2Information:
Type: string
Format: binary
Encoding:
JSON Data:
Content Type: application/json
binaryDataN2Information:
Content Type: application/vnd.3gpp.ngap
Headers:
Content ID:
Schema:
Type: string

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

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

'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:
Description: Unexpected error

/ue-contexts/{ueContextId}/transfer-update

Method: Post

Summary: Namf_Communication RegistrationStatusUpdate service Operation

Tags:

- Individual ueContext (Document)

Operation ID: RegistrationStatusUpdate

Parameters:

- **Name:** ueContextId

In: path

Description: UE Context Identifier

Required/Optional: true

Schema:

Type: string

pattern:

'^(5g-guti-[0-9]{5,6}[0-9a-fA-F]{14}|imsi-[0-9]{5,15}|nai-.+|imei-[0-9]{15}|imeisv-[0-9]{16}|.+)\$'

Request Body:

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/UeRegStatusUpdateReqData'

Required/Optional: true

Responses:

'200':

Description: UE context transfer status successfully updated.

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/UeRegStatusUpdateRspData'

'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'

Default:

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

/ue-contexts/{ueContextId}/n1-n2-messages

Method: Post

Summary: Namf_Communication N1N2 Message Transfer (UE Specific) service Operation

Tags:

- n1N2Message collection (Document)

Operation ID: N1N2MessageTransfer

Parameters:

- **Name:** ueContextId

In: path

Description: UE Context Identifier

Required/Optional: true

Schema:

Type: string

pattern:

'^(imsi-[0-9]{5,15}|nai-.+|imei-[0-9]{15}|imeisv-[0-9]{16}|cid-.{1,255}|.+)\$'

Request Body:

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/N1N2MessageTransferReqData'

Multipart/Related: # message with binary body part(s)

Schema:

Type: object

Properties: # Request parts

JSON Data:

Reference: '#/components/schemas/N1N2MessageTransferReqData'

binaryDataN1Message:

Type: string

Format: binary

binaryDataN2Information:

Type: string

Format: binary

Encoding:

JSON Data:

Content Type: application/json

binaryDataN1Message:

Content Type: application/vnd.3gpp.5gnas

Headers:

Content ID:

Schema:

Type: string

binaryDataN2Information:

Content Type: application/vnd.3gpp.ngap

Headers:

Content ID:

Schema:
Type: string
Required/Optional: true

Responses:

'202':
Description: N1N2 Message Transfer accepted.
Content:
Application/JSON:
Schema:
Reference: '#/components/schemas/N1N2MessageTransferRspData'

'200':
Description: N1N2 Message Transfer successfully initiated.
Content:
Application/JSON:
Schema:
Reference: '#/components/schemas/N1N2MessageTransferRspData'

'307':
Description: Temporary Redirect
Content:
application/problem+json:
Schema:
Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'

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

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

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

'409':
Description: Conflicts
Content:
Application/JSON:
Schema:
Reference: '#/components/schemas/N1N2MessageTransferError'

'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':
Description: Gateway Timeout
Content:
Application/JSON:
Schema:

Reference: '#/components/schemas/N1N2MessageTransferError'

Default:

Description: Unexpected error

Callbacks:

onN1N2TransferFailure:

'{\$request.body#/n1n2FailureTxnfNotifURI}':

Method: Post

Summary: Namf_Communication N1N2Transfer Failure Notification service Operation

Tags:

- N1N2 Transfer Failure Notification

Operation ID: N1N2TransferFailureNotification

Request Body:

Description: N1N2Transfer Failure Notification

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/N1N2MsgTxfrFailureNotification'

Responses:

'204':

Description: Expected response to a successful callback processing

'400':

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

'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'

/non-ue-n2-messages/transfer

Method: Post

Summary: Namf_Communication Non UE N2 Message Transfer service Operation

Tags:

- Non UE N2Messages collection (Document)

Operation ID: NonUeN2MessageTransfer

Request Body:

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/N2InformationTransferReqData'

Multipart/Related: # message with binary body part(s)
Schema:
 Type: object
 Properties: # Request parts
 JSON Data:
 Reference: '#/components/schemas/N2InformationTransferReqData'
 binaryDataN2Information:
 Type: string
 Format: binary
 Encoding:
 JSON Data:
 Content Type: application/json
 binaryDataN2Information:
 Content Type: application/vnd.3gpp.ngap
 Headers:
 Content ID:
 Schema:
 Type: string
Required/Optional: true

Responses:

'200':
 Description: Non UE N2 Message Transfer successfully initiated.
 Content:
 Application/JSON:
 Schema:
 Reference: '#/components/schemas/N2InformationTransferRspData'

'400':
 Description: Bad Request
 Content:
 Application/JSON:
 Schema:
 Reference: '#/components/schemas/N2InformationTransferError'

'403':
 Description: Forbidden
 Content:
 Application/JSON:
 Schema:
 Reference: '#/components/schemas/N2InformationTransferError'

'404':
 Description: Not Found
 Content:
 Application/JSON:
 Schema:
 Reference: '#/components/schemas/N2InformationTransferError'

'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':

Description: Internal Server Error

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/N2InformationTransferError'

'503':

Description: Service Unavailable

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/N2InformationTransferError'

Default:

Description: Unexpected error

/non-ue-n2-messages/subscriptions

Method: Post

Summary: Namf_Communication Non UE N2 Info Subscribe service Operation

Tags:

- Non UE N2Messages Subscriptions collection (Document)

Operation ID: NonUeN2InfoSubscribe

Request Body:

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/NonUeN2InfoSubscriptionCreateData'

Required/Optional: true

Responses:

'201':

Description: Non UE N2 Info Subscription successfully created.

Headers:

Location:

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

{apiRoot}/namf-comm/v1/non-ue-n2-messages/subscriptions/{n2NotifySubscriptionId}'

Required/Optional: true

Schema:

Type: string

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/NonUeN2InfoSubscriptionCreatedData'

'400':

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

'403':

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

'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:
Description: Unexpected error
Callbacks:
onN2InfoNotify:
'{\$request.body#/n2NotifyCallbackUri}':
Method: Post
Summary: Namf_Communication Non UE N2 Info Notify service Operation

Tags:
- Non UE N2 Info Notify
Operation ID: NonUeN2InfoNotify
Request Body:
Description: Non UE N2 Informaiton Notification
Content:
Application/JSON:
Schema:
Reference: '#/components/schemas/N2InformationNotification'
Multipart/Related: # message with binary body part(s)
Schema:
Type: object
Properties: # Request parts
JSON Data:
Reference: '#/components/schemas/N2InformationNotification'
binaryDataN2Information:
Type: string
Format: binary
Encoding:
JSON Data:
Content Type: application/json
binaryDataN2Information:
Content Type: application/vnd.3gpp.ngap
Headers:
Content ID:
Schema:
Type: string

Responses:
'204':
Description: Expected response to a successful callback processing
'400':
Reference: 'TS29571_CommonData.yaml#/components/responses/400'

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'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'

```

/non-ue-n2-messages/subscriptions/{n2NotifySubscriptionId}

delete:

Summary: Namf_Communication Non UE N2 Info UnSubscribe service Operation

Tags:

- Non UE N2 Message Notification Individual Subscription (Document)

Operation ID: NonUeN2InfoUnSubscribe

Parameters:

- **Name:** n2NotifySubscriptionId
In: path
Description: N2 info Subscription Identifier
Required/Optional: true
Schema:
Type: string

Responses:

```

'204':
  Description: Non UE N2 INfo Subscription successfully removed.
'400':
  Reference: 'TS29571_CommonData.yaml#/components/responses/400'
'429':
  Reference: 'TS29571_CommonData.yaml#/components/responses/429'
'500':
  Reference: 'TS29571_CommonData.yaml#/components/responses/500'
'503':
  Reference: 'TS29571_CommonData.yaml#/components/responses/503'

```

/subscriptions

Method: Post

Summary: Namf_Communication AMF Status Change Subscribe service Operation

Tags:

- subscriptions collection (Document)

Operation ID: AMFStatusChangeSubscribe

Request Body:**Content:****Application/JSON:****Schema:****Reference:** '#/components/schemas/SubscriptionData'**Required/Optional:** true**Responses:****'201':****Description:** N1N2 Message Subscription successfully created.**Headers:****Location:****description:** 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/namf-comm/v1/subscriptions/{subscriptionId}'**Required/Optional:** true**Schema:****Type:** string**Content:****Application/JSON:****Schema:****Reference:** '#/components/schemas/SubscriptionData'**'400':****Reference:** 'TS29571_CommonData.yaml#/components/responses/400'**'403':****Reference:** 'TS29571_CommonData.yaml#/components/responses/403'**'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:****Description:** Unexpected error**Callbacks:****onAmfStatusChange:****'{\$request.body#/amfStatusUri}':****Method:** Post**Summary:** Amf Status Change Notify service Operation**Tags:**

- Amf Status Change Notify

Operation ID: AmfStatusChangeNotify**Request Body:****Description:** Amf Status Change Notification**Content:****Application/JSON:**

Schema:**Reference:** '#/components/schemas/AmfStatusChangeNotification'**Responses:****'204':****Description:** Expected response to a successful callback processing**'400':****Reference:** 'TS29571_CommonData.yaml#/components/responses/400'**'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'

/subscriptions/{subscriptionId}

delete:**Summary:** Namf_Communication AMF Status Change UnSubscribe service Operation**Tags:**

- individual subscription (Document)

Operation ID: AMFStatusChangeUnSubscribe**Parameters:**- **Name:** subscriptionId**In:** path**Description:** AMF Status Change Subscription Identifier**Required/Optional:** true**Schema:****Type:** string**Responses:****'204':****Description:** N1N2 Message Subscription successfully removed.**'400':****Reference:** 'TS29571_CommonData.yaml#/components/responses/400'**'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:
  Description: Unexpected error
put:
  Summary: Namf_Communication AMF Status Change Subscribe Modify service Operation

  Tags:
    - individual subscription (Document)
  Operation ID: AMFStatusChangeSubscribeModify

  Parameters:
    - Name: subscriptionId
      In: path
      Description: AMF Status Change Subscription Identifier
      Required/Optional: true
      Schema:
        Type: string
  Request Body:
    Content:
      Application/JSON:
        Schema:
          Reference: '#/components/schemas/SubscriptionData'
        Required/Optional: true

  Responses:
    '202':
      Description: N1N2 Message Subscription successfully updated.
      Content:
        Application/JSON:
          Schema:
            Reference: '#/components/schemas/SubscriptionData'
    '400':
      Reference: 'TS29571_CommonData.yaml#/components/responses/400'
    '403':
      Reference: 'TS29571_CommonData.yaml#/components/responses/403'
    '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:
    Description: Unexpected error
  Callbacks:
    OnAmfStatusChange:
```

```

    '{$request.body#/amfStatusUri}':
      Method: Post
      Summary: Amf Status Change Notify service Operation

      Tags:
        - Amf Status Change Notify
      Operation ID: AmfStatusChangeNOtify
      Request Body:
        Description: Amf Status Change Notification
        Content:
          Application/JSON:
            Schema:
              Reference: '#/components/schemas/AmfStatusChangeNotification'

      Responses:
        '204':
          Description: Expected response to a successful callback processing
        '400':
          Reference: 'TS29571_CommonData.yaml#/components/responses/400'
        '403':
          Reference: 'TS29571_CommonData.yaml#/components/responses/403'
        '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'

```

Components

```

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

schemas:
  # STRUCTURED DATA TYPES
  SubscriptionData:
    Type: object
    Properties:

```

```

    amfStatusUri:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
    guamiList:
      Type: array
      Items:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Guami'
      minItems: 1
    Required:
      - amfStatusUri
  AmfStatusChangeNotification:
    Type: object
    Properties:
      amfStatusInfoList:
        Type: array
        Items:
          Reference: '#/components/schemas/AmfStatusInfo'
        minItems: 1
      Required:
        - amfStatusInfo
  AmfStatusInfo:
    Type: object
    Properties:
      guamiList:
        Type: array
        Items:
          Reference: 'TS29571_CommonData.yaml#/components/schemas/Guami'
        minItems: 1
      statusChange:
        Reference: '#/components/schemas/StatusChange'
      targetAmfRemoval:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/AmfName'
      targetAmfFailure:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/AmfName'
    Required:
      - guamis
      - statusChange
  AssignEbiData:
    Type: object
    Properties:
      pduSessionId:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'
      arpList:
        Type: array
        Items:
          Reference: 'TS29571_CommonData.yaml#/components/schemas/Arp'
        minItems: 1
      releasedEbiList:
        Type: array
        Items:
          Reference: '#/components/schemas/EpsBearerId'
        minItems: 1
    Required:

```

```

    - pduSessionId
AssignedEbiData:
  Type: object
  Properties:
    pduSessionId:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'
    assignedEbiList:
      Type: array
      Items:
        Reference: 'TS29502_Nsmf_PDUSession.yaml#/components/schemas/EbiArpMapping'
      minItems: 0
    failedArpList:
      Type: array
      Items:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Arp'
      minItems: 1
    releasedEbiList:
      Type: array
      Items:
        Reference: '#/components/schemas/EpsBearerId'
      minItems: 1
  Required:
    - pduSessionId
    - assignedEbis
AssignEbiFailed:
  Type: object
  Properties:
    pduSessionId:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'
    failedArpList:
      Type: array
      Items:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Arp'
      minItems: 1
  Required:
    - pduSessionId
UEContextRelease:
  Type: object
  Properties:
    supi:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Supi'
    unauthenticatedSupi:
      Type: boolean
      Default: false
    ngapCause:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/NgapCause'
  Required:
    - ngapCause
N2InformationTransferReqData:
  Type: object
  Properties:
    tailList:

```

```

    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Tai'
    minItems: 1
  ratSelector:
    Reference: '#/components/schemas/RatSelector'
  ecgiList:
    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Ecgi'
    minItems: 1
  ncgiList:
    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Ncgi'
    minItems: 1
  globalRanNodeList:
    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/GlobalRanNodeId'
    minItems: 1
  n2Information:
    Reference: '#/components/schemas/N2InfoContainer'
  supportedFeatures:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
  Required:
    - n2Information
NonUeN2InfoSubscriptionCreateData:
  Type: object
  Properties:
    globalRanNodeList:
      Type: array
      Items:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/GlobalRanNodeId'
      minItems: 1
    anTypeList:
      Type: array
      Items:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/AccessType'
      minItems: 1
    n2InformationClass:
      Reference: '#/components/schemas/N2InformationClass'
    n2NotifyCallbackUri:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
    nfId:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
    supportedFeatures:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
  Required:
    - n2InformationClass
    - n2NotifyCallbackUri
NonUeN2InfoSubscriptionCreatedData:

```

```

Type: object
Properties:
  n2NotifySubscriptionId:
    Type: string
  supportedFeatures:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
Required:
  - n2NotifySubscriptionId
UeN1N2InfoSubscriptionCreateData:
Type: object
Properties:
  n2InformationClass:
    Reference: '#/components/schemas/N2InformationClass'
  n2NotifyCallbackUri:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
  n1MessageClass:
    Reference: '#/components/schemas/N1MessageClass'
  n1NotifyCallbackUri:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
  nfId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
  supportedFeatures:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
UeN1N2InfoSubscriptionCreatedData:
Type: object
Properties:
  n1n2NotifySubscriptionId:
    Type: string
  supportedFeatures:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
Required:
  - n1n2NotifySubscriptionId
N2InformationNotification:
Type: object
Properties:
  n2NotifySubscriptionId:
    Type: string
  n2InfoContainer:
    Reference: '#/components/schemas/N2InfoContainer'
  toReleaseSessionList:
    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'
    minItems: 1
  lcsCorrelationId:
    Reference: 'TS29572_Nlmf_Location.yaml#/components/schemas/CorrelationID'
  notifyReason:
    Reference: '#/components/schemas/N2InfoNotifyReason'
Required:
  - n2NotifySubscriptionId
N2InfoContainer:
Type: object

```



```

Properties:
  n2InformationClass:
    Reference: '#/components/schemas/N2InformationClass'
  smInfo:
    Reference: '#/components/schemas/N2SmInformation'
  ranInfo:
    Reference: '#/components/schemas/N2RanInformation'
  nrppaInfo:
    Reference: '#/components/schemas/NrppaInformation'
  pwsInfo:
    Reference: '#/components/schemas/PwsInformation'
Required:
  - n2InformationClass
N1MessageNotification:
Type: object
Properties:
  n1NotifySubscriptionId:
    Type: string
  n1MessageContainer:
    Reference: '#/components/schemas/N1MessageContainer'
  lcsCorrelationId:
    Reference: 'TS29572_Nlmf_Location.yaml#/components/schemas/CorrelationID'
  registrationCtxContainer:
    Reference: '#/components/schemas/RegistrationContextContainer'
Required:
  - n1MessageContainer
N1MessageContainer:
Type: object
Properties:
  n1MessageClass:
    Reference: '#/components/schemas/N1MessageClass'
  n1MessageContent:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/RefToBinaryData'
  nfId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
Required:
  - n1MessageClass
  - n1MessageContent
N1N2MessageTransferReqData:
Type: object
Properties:
  n1MessageContainer:
    Reference: '#/components/schemas/N1MessageContainer'
  n2InfoContainer:
    Reference: '#/components/schemas/N2InfoContainer'
  skipInd:
    Type: boolean
    Default: false
  lastMsgIndication:
    Type: boolean
  pduSessionId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'

```

```

lcsCorrelationId:
  Reference: 'TS29572_Nlmf_Location.yaml#/components/schemas/CorrelationID'
ppi:
  Reference: '#/components/schemas/Ppi'
arp:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/Arp'
5qi:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/5Qi'
nln2FailureTxfNotifURI:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
smfReallocationInd:
  Type: boolean
  Default: false
areaOfValidity:
  Reference: '#/components/schemas/AreaOfValidity'
supportedFeatures:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
N1N2MessageTransferRspData:
Type: object
Properties:
  cause:
    Reference: '#/components/schemas/N1N2MessageTransferCause'
  supportedFeatures:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
Required:
  - cause
RegistrationContextContainer:
Type: object
Properties:
  ueContext:
    Reference: '#/components/schemas/UeContext'
  localTimeZone:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/TimeZone'
  anType:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/AccessType'
  anN2ApId:
    Type: integer
  ranNodeId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/GlobalRanNodeId'
  initialAmfName:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/AmfName'
  userLocation:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/UserLocation'
  rrcEstCause:
    Type: string
    Pattern: '^([0-9a-fA-F])+$'
  ueContextRequest:
    Type: boolean
    Default: false
  anN2IPv4Addr:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv4Addr'
  anN2IPv6Addr:

```

```

    Reference: 'TS29571_CommonData.yaml#/components/schemas/Ipv6Addr'
  allowedNssai:
    Reference: 'TS29531_Nnssf_NSSelection.yaml#/components/schemas/AllowedNssai'
  configuredNssai:
    Type: array
    Items:
      Reference: 'TS29531_Nnssf_NSSelection.yaml#/components/schemas/ConfiguredSnssai'

    minItems: 1
  rejectedNssaiInPlmn:
    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
    minItems: 1
  rejectedNssaiInTa:
    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
    minItems: 1
  Required:
    - ueContext
    - anType
    - anN2ApId
    - ranNodeId
    - initialAmfName
    - userLocation
  AreaOfValidity:
    Type: object
    Properties:
      taiList:
        Type: array
        Items:
          Reference: 'TS29571_CommonData.yaml#/components/schemas/Tai'
        minItems: 0
    Required:
      - taiList
  UeContextTransferReqData:
    Type: object
    Properties:
      reason:
        Reference: '#/components/schemas/TransferReason'
      accessType:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/AccessType'
      plmnId:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/PlmnId'
      regRequest:
        Reference: '#/components/schemas/N1MessageContainer'
      supportedFeatures:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
    Required:
      - reason
      - accessType
  UeContextTransferRspData:

```

```

Type: object
Properties:
  ueContext:
    Reference: '#/components/schemas/UeContext'
  ueRadioCapability:
    Reference: '#/components/schemas/N2InfoContent'
  supportedFeatures:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
Required:
  - ueContext
UeContext:
Type: object
Properties:
  supi:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Supi'
  supiUnauthInd:
    Type: boolean
  gpsiList:
    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Gpsi'
    minItems: 1
  pei:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Pei'
  udmGroupId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NfGroupId'
  ausfGroupId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NfGroupId'
  routingIndicator:
    Type: string
  groupList:
    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/GroupId'
    minItems: 1
  drxParameter:
    Reference: '#/components/schemas/DrxParameter'
  subRfsp:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/RfspIndex'
  usedRfsp:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/RfspIndex'
  subUeAmbr:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Ambr'
  smsSupport:
    Reference: '#/components/schemas/SmsSupport'
  smsfId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
  seafData:
    Reference: '#/components/schemas/SeafData'
  5gMmCapability:
    Reference: '#/components/schemas/5GMmCapability'
  pcfId:

```

```

    Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
  pcfAmPolicyUri:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
  amPolicyReqTriggerList:
    Type: array
    Items:
      Reference: '#/components/schemas/AMPolicyReqTrigger'
    minItems: 1
  hpcfId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
  restrictedRatList:
    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/RatType'
    minItems: 1
  forbiddenAreaList:
    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Area'
    minItems: 1
  serviceAreaRestriction:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/ServiceAreaRestriction'
  restrictedCoreNwTypeList:
    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/CoreNetworkType'
    minItems: 1
  eventSubscriptionList:
    Type: array
    Items:
      Reference:
'TS29518_Namf_EventExposure.yaml#/components/schemas/AmfEventSubscription'
    minItems: 1
  mmContextList:
    Type: array
    Items:
      Reference: '#/components/schemas/MmContext'
    minItems: 1
    maxItems: 2
  sessionContextList:
    Type: array
    Items:
      Reference: '#/components/schemas/PduSessionContext'
    minItems: 1
  traceData:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/TraceData'
  N2SmInformation:
    Type: object
  Properties:
    pduSessionId:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'
    n2InfoContent:

```

```

    Reference: '#/components/schemas/N2InfoContent'
  sNssai:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
  subjectToHo:
    Type: boolean
  Required:
    - pduSessionId
N2InfoContent:
  Type: object
  Properties:
    ngapMessageType:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/UInteger'
    ngapIeType:
      Reference: '#/components/schemas/NgapIeType'
    ngapData:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/RefToBinaryData'
  Required:
    - ngapIeType
    - ngapData
NrppaInformation:
  Type: object
  Properties:
    nfId:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
    nrppaPdu:
      Reference: '#/components/schemas/N2InfoContent'
  Required:
    - nfId
    - nrppaPdu
PwsInformation:
  Type: object
  Properties:
    messageIdentifier:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Uint16'
    serialNumber:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Uint16'
    pwsContainer:
      Reference: '#/components/schemas/N2InfoContent'
    sendRanResponse:
      Type: boolean
      Default: false
    omcId:
      Reference: '#/components/schemas/OmcIdentifier'
  Required:
    - messageIdentifier
    - serialNumber
    - pwsContainer
N1N2MsgTxfrFailureNotification:
  Type: object
  Properties:
    cause:
      Reference: '#/components/schemas/N1N2MessageTransferCause'
    n1n2MsgDataUri:

```

```

    Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
  Required:
    - cause
    - n1n2MsgDataUri
N1N2MessageTransferError:
  Type: object
  Properties:
    error:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
    errInfo:
      Reference: '#/components/schemas/N1N2MsgTxfrErrDetail'
  Required:
    - error
N1N2MsgTxfrErrDetail:
  Type: object
  Properties:
    retryAfter:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/UInteger'
    highestPrioArp:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Arp'
N2InformationTransferRspData:
  Type: object
  Properties:
    result:
      Reference: '#/components/schemas/N2InformationTransferResult'
    pwsRspData:
      Reference: '#/components/schemas/PWSResponseData'
    supportedFeatures:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
  Required:
    - result
MmContext:
  Type: object
  Properties:
    accessType:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/AccessType'
    nasSecurityMode:
      Reference: '#/components/schemas/NasSecurityMode'
    nasDownlinkCount:
      Reference: '#/components/schemas/NasCount'
    nasUplinkCount:
      Reference: '#/components/schemas/NasCount'
    ueSecurityCapability:
      Reference: '#/components/schemas/UeSecurityCapability'
    s1UeNetworkCapability:
      Reference: '#/components/schemas/S1UeNetworkCapability'
    allowedNssai:
      Type: array
      Items:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
      minItems: 1
    nssaiMappingList:

```

```

    Type: array
    Items:
      Reference: '#/components/schemas/NssaiMapping'
    minItems: 1
  nsInstanceList:
    Type: array
    Items:
      Reference: 'TS29531_Nnssf_NSSelection.yaml#/components/schemas/NsiId'
    minItems: 1
  expectedUEbehavior:
    Reference: '#/components/schemas/ExpectedUeBehavior'
  Required:
    - accessType
  SeafData:
    Type: object
    Properties:
      ngKsi:
        Reference: '#/components/schemas/NgKsi'
      keyAmf:
        Reference: '#/components/schemas/KeyAmf'
      nh:
        Type: string
        Pattern: '^[A-Za-f0-9]+$'
      ncc:
        Type: integer
        Minimum: 0
        Maximum: 7
      keyAmfChangeInd:
        Type: boolean
      keyAmfHDERivationInd:
        Type: boolean
    Required:
      - ngKsi
      - keyAmf
  NasSecurityMode:
    Type: object
    Properties:
      integrityAlgorithm:
        Reference: '#/components/schemas/IntegrityAlgorithm'
      cipheringAlgorithm:
        Reference: '#/components/schemas/CipheringAlgorithm'
    Required:
      - integrityAlgorithm
      - cipheringAlgorithm
  PduSessionContext:
    Type: object
    Properties:
      pduSessionId:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'
      smContextRef:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
      sNssai:

```



```

    Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
dnn:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Dnn'
accessType:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/AccessType'
allocatedEbiList:
    Type: array
    Items:
        Reference: 'TS29502_Nsmf_PDUSession.yaml#/components/schemas/EbiArpMapping'
    minItems: 1
hsmfId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
vsmfId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
nsInstance:
    Reference: 'TS29531_Nnssf_NSSelection.yaml#/components/schemas/NsiId'
Required:
- pduSessionId
- smContextRef
- sNssai
- dnn
- accessType
- allocatedEbiList
NssaiMapping:
    Type: object
    Properties:
        mappedSnssai:
            Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
        hSnssai:
            Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
    Required:
- mappedSnssai
- hSnssai
UeRegStatusUpdateReqData:
    Type: object
    Properties:
        transferStatus:
            Reference: '#/components/schemas/UeContextTransferStatus'
        toReleaseSessionList:
            Type: array
            Items:
                Reference: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'
            minItems: 1
        pcfReselectedInd:
            Type: boolean
    Required:
- transferStatus
UeRegStatusUpdateRspData:
    Type: object
    Properties:
        regStatusTransferComplete:
            Type: boolean
    Required:

```

```

    - regStatusTransferComplete
AssignEbiError:
  Type: object
  Properties:
    error:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
    failureDetails:
      Reference: '#/components/schemas/AssignEbiFailed'
  Required:
    - error
    - failureDetails
UeContextCreateData:
  Type: object
  Properties:
    ueContext:
      Reference: '#/components/schemas/UeContext'
    targetId:
      Reference: '#/components/schemas/NgRanTargetId'
    sourceToTargetData:
      Reference: '#/components/schemas/N2InfoContent'
    pduSessionList:
      Type: array
      Items:
        Reference: '#/components/schemas/N2SmInformation'
      minItems: 1
    n2NotifyUri:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
    ueRadioCapability:
      Reference: '#/components/schemas/N2InfoContent'
    ngapCause:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/NgApCause'
    supportedFeatures:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
  Required:
    - ueContext
    - targetId
    - sourceToTargetData
    - pduSessions
UeContextCreatedData:
  Type: object
  Properties:
    ueContext:
      Reference: '#/components/schemas/UeContext'
    targetToSourceData:
      Reference: '#/components/schemas/N2InfoContent'
    pduSessionList:
      Type: array
      Items:
        Reference: '#/components/schemas/N2SmInformation'
      minItems: 1
    ngapCause:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/NgApCause'
    failedSessionList:

```

```

    Type: array
    Items:
      Reference: '#/components/schemas/N2SmInformation'
    minItems: 1
    supportedFeatures:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
    pcfReselectedInd:
      Type: boolean
  Required:
    - ueContext
    - targetToSourceData
    - pduSessions
UeContextCreateError:
  Type: object
  Properties:
    error:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
    ngapCause:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/NgapCause'
  Required:
    - error
NgRanTargetId:
  Type: object
  Properties:
    ranNodeId:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/GlobalRanNodeId'
    tai:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Tai'
  Required:
    - ranNodeId
    - tai
PWSResponseData:
  Type: object
  Properties:
    ngapMessageType:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/UInteger'
    serialNumber:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Uint16'
    messageIdentifier:
      Type: integer
    unknownTailList:
      Type: array
      Items:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Tai'
      minItems: 1
  Required:
    - ngapMessageType
    - serialNumber
    - messageIdentifier
PWSErrorData:
  Type: object
  Properties:
    namfCause:

```

```

        Type: integer
    Required:
    - namfCause
N2InformationTransferError:
    Type: object
    Properties:
        error:
            Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
        pwdErrorInfo:
            Reference: '#/components/schemas/PWSErrorData'
    Required:
    - error
NgKsi:
    Type: object
    Properties:
        tsc:
            Reference: '#/components/schemas/ScType'
        ksi:
            Type: integer
            Minimum: 0
            Maximum: 6
    Required:
    - tsc
    - ksi
KeyAmf:
    Type: object
    Properties:
        keyType:
            Reference: '#/components/schemas/KeyAmfType'
        keyVal:
            Type: string
    Required:
    - keyType
    - keyVal
ExpectedUeBehavior:
    Type: object
    Properties:
        expMoveTrajectory:
            Type: array
            Items:
                Reference: 'TS29571_CommonData.yaml#/components/schemas/UserLocation'
            minItems: 1
        validityTime:
            Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
    Required:
    - expMoveTrajectory
    - validityTime
N2RanInformation:
    Type: object
    Properties:
        n2InfoContent:
            Reference: '#/components/schemas/N2InfoContent'
    Required:

```

```

        - n2InfoContent
# SIMPLE DATA TYPES
EpsBearerId:
    Type: integer
    Minimum: 0
    Maximum: 15
Ppi:
    Type: integer
    Minimum: 0
    Maximum: 7
NasCount:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/UInteger'
5GMMCapability:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Bytes'
UeSecurityCapability:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Bytes'
S1UeNetworkCapability:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Bytes'
DrxParameter:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Bytes'
OmcIdentifier:
    Type: string
# ENUMERATIONS
StatusChange:
    anyOf:
        - type: string
          enum:
            - AMF_UNAVAILABLE
            - AMF_AVAILABLE
        - type: string
N2InformationClass:
    anyOf:
        - type: string
          enum:
            - SM
            - NRPPa
            - PWS
            - PWS-BCAL
            - PWS-RF
            - RAN
        - type: string
N1MessageClass:
    anyOf:
        - type: string
          enum:
            - 5GMM
            - SM
            - LPP
            - SMS
            - UPDP
        - type: string
N1N2MessageTransferCause:
    anyOf:
        - type: string
          enum:
            - ATTEMPTING_TO_REACH_UE

```

```

- N1_N2_TRANSFER_INITIATED
- WAITING_FOR_ASYNCHRONOUS_TRANSFER
- UE_NOT_RESPONDING
- N1_MSG_NOT_TRANSFERRED
- UE_NOT_REACHABLE_FOR_SESSION
- type: string
UeContextTransferStatus:
  anyOf:
  - type: string
    enum:
    - TRANSFERRED
    - NOT_TRANSFERRED
  - type: string
N2InformationTransferResult:
  anyOf:
  - type: string
    enum:
    - N2_INFO_TRANSFER_INITIATED
  - type: string
CipheringAlgorithm:
  anyOf:
  - type: string
    enum:
    - NEA0
    - NEA1
    - NEA2
    - NEA3
  - type: string
IntegrityAlgorithm:
  anyOf:
  - type: string
    enum:
    - NIA0
    - NIA1
    - NIA2
    - NIA3
  - type: string
SmsSupport:
  anyOf:
  - type: string
    enum:
    - 3GPP
    - NON_3GPP
    - BOTH
    - NONE
  - type: string
ScType:
  anyOf:
  - type: string
    enum:
    - NATIVE
    - MAPPED
  - type: string
KeyAmfType:
  anyOf:
  - type: string
    enum:
    - KAMF
    - KPRIMEAMF

```

```

- type: string
TransferReason:
  anyOf:
    - type: string
      enum:
        - INIT_REG
        - MOBI_REG
        - MOBI_REG_UE_VALIDATED
    - type: string
AMPolicyReqTrigger:
  anyOf:
    - type: string
      enum:
        - LOCATION_CHANGE
        - PRA_CHANGE
        - SARI_CHANGE
        - RFSP_INDEX_CHANGE
    - type: string
RatSelector:
  anyOf:
    - type: string
      enum:
        - E-UTRA
        - NR
    - type: string
NgapIeType:
  anyOf:
    - type: string
      enum:
        - PDU_RES_SETUP_REQ
        - PDU_RES_REL_CMD
        - PDU_RES_MOD_REQ
        - HANDOVER_CMD
        - HANDOVER_REQUIRED
        - HANDOVER_PREP_FAIL
        - SRC_TO_TAR_CONTAINER
        - TAR_TO_SRC_CONTAINER
        - RAN_STATUS_TRANS_CONTAINER
        - SON_CONFIG_TRANSFER
        - NRPPA_PDU
        - UE_RADIO_CAPABILITY
    - type: string
N2InfoNotifyReason:
  anyOf:
    - type: string
      enum:
        - HANDOVER_COMPLETED
    - type: string

```

External Docs

Description: 3GPP TS 29.518 V15.2.0; 5G System; Access and Mobility Management Services

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

