



# Namf\_Communication

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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]

- [OpenAPI, on page 1](#)
- [Info, on page 1](#)
- [Servers, on page 2](#)
- [Security, on page 2](#)
- [Paths, on page 2](#)
- [Components, on page 20](#)
- [External Docs, on page 39](#)

## 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'

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

'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:

```

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    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:
    taiList:

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    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'
  registrationCtxtContainer:
    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'

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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:

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    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:

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```

    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
    unknownTaiList:
      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'
5GmCapability:
  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/](http://www.3gpp.org/ftp/Specs/archive/29_series/29.518/)'

