



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'

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

Method: Post

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

Tags:

- N1N2 Subscriptions Collection for Individual UE Contexts (Document)

Operation ID: N1N2MessageSubscribe

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/UeN1N2InfoSubscriptionCreateData'
    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/{ueContextId}/n1-n2-messages/subscriptions/{subscriptionId}'
        Required/Optional: true
        Schema:
          Type: string
    Content:
      Application/JSON:
        Schema:
          Reference: '#/components/schemas/UeN1N2InfoSubscriptionCreatedData'
  '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'
Default:
  Description: Unexpected error
Callbacks:
  onN1N2MessageNotify:
    '{$request.body#/n1NotifyCallbackUri}':
      Method: Post
      Summary: Namf_Communication N1 Message Notify service Operation

      Tags:
        - N1 Message Notify
      Operation ID: N1MessageNotify

```

Request Body:
Description: N1 Message Notification
Content:
Multipart/Related: # message with binary body part(s)
Schema:
Type: object
Properties: # Request parts
JSON Data:
Reference: '#/components/schemas/N1MessageNotification'
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

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'
'{\$request.body#/n2NotifyCallbackUri}':

Method: Post
Summary: Namf_Communication N2 Info Notify (UE Specific) service Operation

Tags:
- N2 Info Notify
Operation ID: N2InfoNotify
Request Body:
Description: UE Specific N2 Informaiton Notification
Content:
Multipart/Related: # message with binary body part(s)

Schema:

Type: object
Properties: # Request parts
JSON Data:
Reference: '#/components/schemas/N2InformationNotification'
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

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'

/ue-contexts/{ueContextId}/n1-n2-messages/subscriptions/{subscriptionId}**delete:**

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

Tags:

- N1N2 Individual Subscription (Document)

Operation ID: N1N2MessageUnSubscribe

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}|.+)\$'

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

Responses:

- '204':
 - Description:** N1N2 Message Subscription successfully removed.
- '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':

```

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

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/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'
  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'
  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:
  tailList:
    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Tai'
    minItems: 0
  Required:
  - taList
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

```

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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'

```

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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_TRANSFERRERD
- 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/'

