



Namf Communication

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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#/n1n2FailureTxfrNotifURI}':
      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':

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'**n1n2FailureTxfNotifURI:****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/ConfiguredNssai'

    minItems: 1
    rejectedNssaiInPlmn:
      Type: array
      Items:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'

```

```

        minItems: 1
    rejectedNssaiInTa:
        Type: array
        Items:
            Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
        minItems: 1
    Required:
        - ueContext
        - anType
        - anN2ApId
        - ranNodeId
        - initialAmfName
        - userLocation
    AreaOfValidity:
        Type: object
        Properties:
            taiList:
                Type: array
                Items:
                    Reference: 'TS29571_CommonData.yaml#/components/schemas/Tai'
                minItems: 0
            Required:
                - taiList
    UeContextTransferReqData:
        Type: object
        Properties:
            reason:
                Reference: '#/components/schemas/TransferReason'
            accessType:
                Reference: 'TS29571_CommonData.yaml#/components/schemas/AccessType'
            plmnId:
                Reference: 'TS29571_CommonData.yaml#/components/schemas/PlmnId'
            regRequest:
                Reference: '#/components/schemas/N1MessageContainer'
            supportedFeatures:
                Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
            Required:
                - reason
                - accessType
    UeContextTransferRspData:
        Type: object
        Properties:
            ueContext:
                Reference: '#/components/schemas/UeContext'
            ueRadioCapability:
                Reference: '#/components/schemas/N2InfoContent'
            supportedFeatures:
                Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
            Required:
                - ueContext
    UeContext:
        Type: object
        Properties:

```

```

supi:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/Supi'
supiUnauthInd:
  Type: boolean
gpsiList:
  Type: array
  Items:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Gpsi'
  minItems: 1
pei:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/Pei'
udmGroupId:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/NfGroupId'
ausfGroupId:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/NfGroupId'
routingIndicator:
  Type: string
groupList:
  Type: array
  Items:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/GroupId'
  minItems: 1
drxParameter:
  Reference: '#/components/schemas/DrxParameter'
subRfsp:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/RfspIndex'
usedRfsp:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/RfspIndex'
subUeAmbr:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/Ambr'
smsSupport:
  Reference: '#/components/schemas/SmsSupport'
smsfId:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
seafData:
  Reference: '#/components/schemas/SeafData'
5gMmCapability:
  Reference: '#/components/schemas/5GMmCapability'
pcfId:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
pcfAmPolicyUri:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
amPolicyReqTriggerList:
  Type: array
  Items:
    Reference: '#/components/schemas/AMPolicyReqTrigger'
  minItems: 1
hpcfId:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
restrictedRatList:
  Type: array

```



```

    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/RatType'
    minItems: 1
  forbiddenAreaList:
    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Area'
    minItems: 1
  serviceAreaRestriction:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/ServiceAreaRestriction'
  restrictedCoreNwTypeList:
    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/CoreNetworkType'
    minItems: 1
  eventSubscriptionList:
    Type: array
    Items:
      Reference:
'TS29518_Namf_EventExposure.yaml#/components/schemas/AmfEventSubscription'
    minItems: 1
  mmContextList:
    Type: array
    Items:
      Reference: '#/components/schemas/MmContext'
    minItems: 1
    maxItems: 2
  sessionContextList:
    Type: array
    Items:
      Reference: '#/components/schemas/PduSessionContext'
    minItems: 1
  traceData:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/TraceData'
N2SmInformation:
  Type: object
  Properties:
    pduSessionId:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'
    n2InfoContent:
      Reference: '#/components/schemas/N2InfoContent'
    sNssai:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
    subjectToHo:
      Type: boolean
  Required:
  - pduSessionId
N2InfoContent:
  Type: object
  Properties:
    ngapMessageType:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/UInteger'

```

```

    ngapIeType:
      Reference: '#/components/schemas/NgapIeType'
    ngapData:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/RefToBinaryData'
  Required:
    - ngapIeType
    - ngapData
  NrppaInformation:
    Type: object
    Properties:
      nfId:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
      nrppaPdu:
        Reference: '#/components/schemas/N2InfoContent'
    Required:
      - nfId
      - nrppaPdu
  PwsInformation:
    Type: object
    Properties:
      messageIdentifier:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Uint16'
      serialNumber:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Uint16'
      pwsContainer:
        Reference: '#/components/schemas/N2InfoContent'
      sendRanResponse:
        Type: boolean
        Default: false
      omcId:
        Reference: '#/components/schemas/OmcIdentifier'
    Required:
      - messageIdentifier
      - serialNumber
      - pwsContainer
  N1N2MsgTxfrFailureNotification:
    Type: object
    Properties:
      cause:
        Reference: '#/components/schemas/N1N2MessageTransferCause'
      n1n2MsgDataUri:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
    Required:
      - cause
      - n1n2MsgDataUri
  N1N2MessageTransferError:
    Type: object
    Properties:
      error:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
      errInfo:
        Reference: '#/components/schemas/N1N2MsgTxfrErrDetail'
    Required:

```

```

- error
N1N2MsgTxfrErrDetail:
  Type: object
  Properties:
    retryAfter:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/UInteger'
    highestPrioArp:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Arp'
N2InformationTransferRspData:
  Type: object
  Properties:
    result:
      Reference: '#/components/schemas/N2InformationTransferResult'
    pwsRspData:
      Reference: '#/components/schemas/PWSResponseData'
    supportedFeatures:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
  Required:
    - result
MmContext:
  Type: object
  Properties:
    accessType:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/AccessType'
    nasSecurityMode:
      Reference: '#/components/schemas/NasSecurityMode'
    nasDownlinkCount:
      Reference: '#/components/schemas/NasCount'
    nasUplinkCount:
      Reference: '#/components/schemas/NasCount'
    ueSecurityCapability:
      Reference: '#/components/schemas/UeSecurityCapability'
    s1UeNetworkCapability:
      Reference: '#/components/schemas/S1UeNetworkCapability'
    allowedNssai:
      Type: array
      Items:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
      minItems: 1
    nssaiMappingList:
      Type: array
      Items:
        Reference: '#/components/schemas/NssaiMapping'
      minItems: 1
    nsInstanceList:
      Type: array
      Items:
        Reference: 'TS29531_Nnssf_NSSelection.yaml#/components/schemas/NsiId'
      minItems: 1
    expectedUEbehavior:
      Reference: '#/components/schemas/ExpectedUeBehavior'
  Required:

```

```

    - accessType
SeafData:
  Type: object
  Properties:
    ngKsi:
      Reference: '#/components/schemas/NgKsi'
    keyAmf:
      Reference: '#/components/schemas/KeyAmf'
    nh:
      Type: string
      Pattern: '^[A-Za-f0-9]+$'
    ncc:
      Type: integer
      Minimum: 0
      Maximum: 7
    keyAmfChangeInd:
      Type: boolean
    keyAmfHDerivationInd:
      Type: boolean
  Required:
    - ngKsi
    - keyAmf
NasSecurityMode:
  Type: object
  Properties:
    integrityAlgorithm:
      Reference: '#/components/schemas/IntegrityAlgorithm'
    cipheringAlgorithm:
      Reference: '#/components/schemas/CipheringAlgorithm'
  Required:
    - integrityAlgorithm
    - cipheringAlgorithm
PduSessionContext:
  Type: object
  Properties:
    pduSessionId:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'
    smContextRef:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Uri'
    sNssai:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
    dnn:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Dnn'
    accessType:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/AccessType'
    allocatedEbiList:
      Type: array
      Items:
        Reference: 'TS29502_Nsmf_PDUSession.yaml#/components/schemas/EbiArpMapping'
      minItems: 1
    hsmfId:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'

```

```

vsmfId:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
nsInstance:
  Reference: 'TS29531_Nnssf_NSSelection.yaml#/components/schemas/NsiId'
Required:
- pduSessionId
- smContextRef
- sNssai
- dnn
- accessType
- allocatedEbiList
NssaiMapping:
Type: object
Properties:
  mappedSnssai:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
  hSnssai:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'
Required:
- mappedSnssai
- hSnssai
UeRegStatusUpdateReqData:
Type: object
Properties:
  transferStatus:
    Reference: '#/components/schemas/UeContextTransferStatus'
  toReleaseSessionList:
    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/PduSessionId'
    minItems: 1
  pcfReselectedInd:
    Type: boolean
Required:
- transferStatus
UeRegStatusUpdateRspData:
Type: object
Properties:
  regStatusTransferComplete:
    Type: boolean
Required:
- regStatusTransferComplete
AssignEbiError:
Type: object
Properties:
  error:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
  failureDetails:
    Reference: '#/components/schemas/AssignEbiFailed'
Required:
- error
- failureDetails
UeContextCreateData:
Type: object

```

Properties:

- ueContext:**
 - Reference:** '#/components/schemas/UeContext'
- targetId:**
 - Reference:** '#/components/schemas/NgRanTargetId'
- sourceToTargetData:**
 - Reference:** '#/components/schemas/N2InfoContent'
- pduSessionList:**
 - Type:** array
 - Items:**
 - Reference:** '#/components/schemas/N2SmInformation'
 - minItems:** 1
- n2NotifyUri:**
 - Reference:** 'TS29571_CommonData.yaml#/components/schemas/Uri'
- ueRadioCapability:**
 - Reference:** '#/components/schemas/N2InfoContent'
- ngapCause:**
 - Reference:** 'TS29571_CommonData.yaml#/components/schemas/NgApCause'
- supportedFeatures:**
 - Reference:** 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'

Required:

- ueContext
- targetId
- sourceToTargetData
- pduSessions

UeContextCreatedData:

Type: object

Properties:

- ueContext:**
 - Reference:** '#/components/schemas/UeContext'
- targetToSourceData:**
 - Reference:** '#/components/schemas/N2InfoContent'
- pduSessionList:**
 - Type:** array
 - Items:**
 - Reference:** '#/components/schemas/N2SmInformation'
 - minItems:** 1
- ngapCause:**
 - Reference:** 'TS29571_CommonData.yaml#/components/schemas/NgApCause'
- failedSessionList:**
 - Type:** array
 - Items:**
 - Reference:** '#/components/schemas/N2SmInformation'
 - minItems:** 1
- supportedFeatures:**
 - Reference:** 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
- pcfReselectedInd:**
 - Type:** boolean

Required:

- ueContext
- targetToSourceData
- pduSessions

UeContextCreateError:

```

Type: object
Properties:
  error:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
  ngapCause:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NgApCause'
Required:
  - error
NgRanTargetId:
Type: object
Properties:
  ranNodeId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/GlobalRanNodeId'
  tai:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Tai'
Required:
  - ranNodeId
  - tai
PWSresponseData:
Type: object
Properties:
  ngapMessageType:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/UInteger'
  serialNumber:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Uint16'
  messageIdentifier:
    Type: integer
  unknownTailList:
    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Tai'
    minItems: 1
Required:
  - ngapMessageType
  - serialNumber
  - messageIdentifier
PWSerrorData:
Type: object
Properties:
  namfCause:
    Type: integer
Required:
  - namfCause
N2InformationTransferError:
Type: object
Properties:
  error:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
  pwdErrorInfo:
    Reference: '#/components/schemas/PWSerrorData'
Required:
  - error
NgKsi:

```

```

Type: object
Properties:
  tsc:
    Reference: '#/components/schemas/ScType'
  ksi:
    Type: integer
    Minimum: 0
    Maximum: 6
Required:
- tsc
- ksi
KeyAmf:
Type: object
Properties:
  keyType:
    Reference: '#/components/schemas/KeyAmfType'
  keyVal:
    Type: string
Required:
- keyType
- keyVal
ExpectedUeBehavior:
Type: object
Properties:
  expMoveTrajectory:
    Type: array
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/UserLocation'
    minItems: 1
  validityTime:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
Required:
- expMoveTrajectory
- validityTime
N2RanInformation:
Type: object
Properties:
  n2InfoContent:
    Reference: '#/components/schemas/N2InfoContent'
Required:
- n2InfoContent
# SIMPLE DATA TYPES
EpsBearerId:
Type: integer
Minimum: 0
Maximum: 15
Ppi:
Type: integer
Minimum: 0
Maximum: 7
NasCount:
Reference: 'TS29571_CommonData.yaml#/components/schemas/UInteger'
5GmmCapability:

```



```

    Reference: 'TS29571_CommonData.yaml#/components/schemas/Bytes'
UeSecurityCapability:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Bytes'
S1UeNetworkCapability:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Bytes'
DrxParameter:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/Bytes'
OmcIdentifier:
    Type: string
# ENUMERATIONS
StatusChange:
    anyOf:
    - type: string
      enum:
      - AMF_UNAVAILABLE
      - AMF_AVAILABLE
    - type: string
N2InformationClass:
    anyOf:
    - type: string
      enum:
      - SM
      - NRPPa
      - PWS
      - PWS-BCAL
      - PWS-RF
      - RAN
    - type: string
N1MessageClass:
    anyOf:
    - type: string
      enum:
      - 5GMM
      - SM
      - LPP
      - SMS
      - UPDP
    - type: string
N1N2MessageTransferCause:
    anyOf:
    - type: string
      enum:
      - ATTEMPTING_TO_REACH_UE
      - N1_N2_TRANSFER_INITIATED
      - WAITING_FOR_ASYNCHRONOUS_TRANSFER
      - UE_NOT_RESPONDING
      - N1_MSG_NOT_TRANSFERRED
      - UE_NOT_REACHABLE_FOR_SESSION
    - type: string
UeContextTransferStatus:
    anyOf:
    - type: string
      enum:
      - TRANSFERRED
      - NOT_TRANSFERRED
    - type: string
N2InformationTransferResult:
    anyOf:

```

```

- type: string
  enum:
    - N2_INFO_TRANSFER_INITIATED
- type: string
CipheringAlgorithm:
anyOf:
- type: string
  enum:
    - NEA0
    - NEA1
    - NEA2
    - NEA3
- type: string
IntegrityAlgorithm:
anyOf:
- type: string
  enum:
    - NIA0
    - NIA1
    - NIA2
    - NIA3
- type: string
SmsSupport:
anyOf:
- type: string
  enum:
    - 3GPP
    - NON_3GPP
    - BOTH
    - NONE
- type: string
ScType:
anyOf:
- type: string
  enum:
    - NATIVE
    - MAPPED
- type: string
KeyAmfType:
anyOf:
- type: string
  enum:
    - KAMF
    - KPRIMEAMF
- type: string
TransferReason:
anyOf:
- type: string
  enum:
    - INIT_REG
    - MOBI_REG
    - MOBI_REG_UE_VALIDATED
- type: string
AMPolicyReqTrigger:
anyOf:
- type: string
  enum:
    - LOCATION_CHANGE
    - PRA_CHANGE

```

```
- SARI_CHANGE
- RFSP_INDEX_CHANGE
- type: string
RatSelector:
  anyOf:
  - type: string
    enum:
    - E-UTRA
    - NR
  - type: string
NgapIeType:
  anyOf:
  - type: string
    enum:
    - PDU_RES_SETUP_REQ
    - PDU_RES_REL_CMD
    - PDU_RES_MOD_REQ
    - HANDOVER_CMD
    - HANDOVER_REQUIRED
    - HANDOVER_PREP_FAIL
    - SRC_TO_TAR_CONTAINER
    - TAR_TO_SRC_CONTAINER
    - RAN_STATUS_TRANS_CONTAINER
    - SON_CONFIG_TRANSFER
    - NRPPA_PDU
    - UE_RADIO_CAPABILITY
  - type: string
N2InfoNotifyReason:
  anyOf:
  - type: string
    enum:
    - HANDOVER_COMPLETED
  - type: string
```

External Docs

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

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

