



## Namf\_Communication

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

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

**Reference:** 3GPP TS 29.518 [14]

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## OpenAPI

OpenAPI Version: 3.0.0

## info

**Version:** 1.0.0

**Title:** Namf\_Communication

**Description:** AMF Communication Service

## externalDocs

**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/'

## security

- {}
- oAuth2Clientcredentials:
- namf-comm

## 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

## 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' 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' Bad Request

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '#/components/schemas/UeContextCreateError'

'403' 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' 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': 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'** EBI Assignment successfully performed.

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** `'#/components/schemas/AssignedEbiData'`

**'400'** Bad Request

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** `'#/components/schemas/AssignEbiError'`

**'403'** 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' 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' 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' 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' N1N2 Message Transfer accepted.

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '#/components/schemas/N1N2MessageTransferRspData'

'200' N1N2 Message Transfer successfully initiated.

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '#/components/schemas/N1N2MessageTransferRspData'

'307' 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' 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' 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': 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' 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' 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': 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': 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' Non UE N2 Message Transfer successfully initiated.

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '#/components/schemas/N2InformationTransferRspData'

'400' Bad Request

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '#/components/schemas/N2InformationTransferError'

'403' Forbidden

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '#/components/schemas/N2InformationTransferError'

'404' 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' Internal Server Error

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '#/components/schemas/N2InformationTransferError'

'503' 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' 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' 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': 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' 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' 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': 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' 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' 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:****taiList:****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'

**n1Id:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/N1InstanceId'

**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'

## N2SmlInformation

**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:**

- messageIdIdentifier
- 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-Fa-f0-9]+\$'**ncc:****Type:** integer**Minimum:** 0**Maximum:** 7**keyAmfChangeInd:****Type:** boolean**keyAmfHDerivationInd:**

**Type:** boolean

**Required:**

- ngKsi

- keyAmf

## NasSecurityMode

**Type:** object

**Properties:**

**integrityAlgorithm:**

**Reference:** '#/components/schemas/IntegrityAlgorithm'

**cipheringAlgorithm:**

**Reference:** '#/components/schemas/CipheringAlgorithm'

**Required:**

- integrityAlgorithm

- cipheringAlgorithm

## PduSessionContext

**Type:** object

**Properties:**

**pduSessionId:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/PduSessionId'

**smContextRef:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Uri'

**sNssai:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Snssai'

**dnn:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Dnn'

**accessType:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/AccessType'

**allocatedEbiList:**

**Type:** array

**Items:**

**Reference:** 'TS29502\_Nsmf\_PDUSession.yaml#/components/schemas/EbiArpMapping'

**minItems:** 1

**hsmfId:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/NfInstanceId'

**vsmfId:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/NfInstanceId'

**nsInstance:**

**Reference:** 'TS29531\_Nnssf\_NSSelection.yaml#/components/schemas/NsiId'

**Required:**

- pduSessionId
- smContextRef
- sNssai
- dnn
- accessType
- allocatedEbiList

## NssaiMapping

**Type:** object

**Properties:**

**mappedSnssai:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Snssai'

**hSnssai:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Snssai'

**Required:**

- mappedSnssai
- hSnssai

## UeRegStatusUpdateReqData

**Type:** object

**Properties:**

**transferStatus:**

**Reference:** '#/components/schemas/UeContextTransferStatus'

**toReleaseSessionList:**

**Type:** array

**Items:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/PduSessionId'

**minItems:** 1

**pcfReselectedInd:**



**Type:** boolean

**Required:**

- transferStatus

## UeRegStatusUpdateRspData

**Type:** object

**Properties:**

**regStatusTransferComplete:**

**Type:** boolean

**Required:**

- regStatusTransferComplete

## AssignEbiError

**Type:** object

**Properties:**

**error:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/ProblemDetails'

**failureDetails:**

**Reference:** '#/components/schemas/AssignEbiFailed'

**Required:**

- error

- failureDetails

## UeContextCreateData

**Type:** object

**Properties:**

**ueContext:**

**Reference:** '#/components/schemas/UeContext'

**targetId:**

**Reference:** '#/components/schemas/NgRanTargetId'

**sourceToTargetData:**

**Reference:** '#/components/schemas/N2InfoContent'

**pduSessionList:**

**Type:** array

**Items:**

**Reference:** '#/components/schemas/N2SmInformation'

**minItems:** 1

**n2NotifyUri:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Uri'

**ueRadioCapability:**

**Reference:** '#/components/schemas/N2InfoContent'

**ngapCause:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/NgApCause'

**supportedFeatures:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

**Required:**

- ueContext
- targetId
- sourceToTargetData
- pduSessions

## UeContextCreatedData

**Type:** object

**Properties:**

**ueContext:**

**Reference:** '#/components/schemas/UeContext'

**targetToSourceData:**

**Reference:** '#/components/schemas/N2InfoContent'

**pduSessionList:**

**Type:** array

**Items:**

**Reference:** '#/components/schemas/N2SmInformation'

**minItems:** 1

**ngapCause:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/NgApCause'

**failedSessionList:**

**Type:** array

**Items:**

**Reference:** '#/components/schemas/N2SmInformation'

**minItems:** 1

**supportedFeatures:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

**pcfReselectedInd:**

**Type:** boolean

**Required:**

- ueContext
- targetToSourceData
- pduSessions

## UeContextCreateError

**Type:** object

**Properties:**

**error:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/ProblemDetails'

**ngapCause:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/NgApCause'

**Required:**

- error

## NgRanTargetId

**Type:** object

**Properties:**

**ranNodeId:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/GlobalRanNodeId'

**tai:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Tai'

**Required:**

- ranNodeId
- tai

## PWSResponseData

**Type:** object

**Properties:**

**ngapMessageType:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/UInteger'

**serialNumber:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Uint16'

**messageIdentifier:****Type:** integer**unknownTaiList:****Type:** array**Items:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Tai'**minItems:** 1**Required:**

- ngapMessageType
- serialNumber
- messageIdentifier

**PWSErrorData****Type:** object**Properties:****namfCause:****Type:** integer**Required:**

- namfCause

**N2InformationTransferError****Type:** object**Properties:****error:****Reference:** 'TS29571\_CommonData.yaml#/components/schemas/ProblemDetails'**pwdErrorInfo:****Reference:** '#/components/schemas/PWSErrorData'**Required:**

- error

**NgKsi****Type:** object**Properties:****tsc:****Reference:** '#/components/schemas/ScType'**ksi:**

**Type:** integer

**Minimum:** 0

**Maximum:** 6

**Required:**

- tsc

- ksi

## KeyAmf

**Type:** object

**Properties:**

**keyType:**

**Reference:** '#/components/schemas/KeyAmfType'

**keyVal:**

**Type:** string

**Required:**

- keyType

- keyVal

## ExpectedUeBehavior

**Type:** object

**Properties:**

**expMoveTrajectory:**

**Type:** array

**Items:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/UserLocation'

**minItems:** 1

**validityTime:**

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/DateTime'

**Required:**

- expMoveTrajectory

- validityTime

## N2RanInformation

**Type:** object

**Properties:**

**n2InfoContent:**

**Reference:** '#/components/schemas/N2InfoContent'

**Required:**

- n2InfoContent

# SIMPLE DATA TYPES

## EpsBearerId

**Type:** integer

**Minimum:** 0

**Maximum:** 15

## Ppi

**Type:** integer

**Minimum:** 0

**Maximum:** 7

## NasCount

**Reference:** 'TS29571\_CommonData.yaml#/components/schemas/Uinteger'

## 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'

## OmIdentifier

**Type:** string

# ENUMERATIONS

## StatusChange

**anyOf:**

- type: string

## N2InformationClass

anyOf:

- type: string

## N1MessageClass

anyOf:

- type: string

## N1N2MessageTransferCause

anyOf:

- type: string

## UeContextTransferStatus

anyOf:

- type: string

## N2InformationTransferResult

anyOf:

- type: string

## CipheringAlgorithm

anyOf:

- type: string

## IntegrityAlgorithm

anyOf:

- type: string

## SmsSupport

anyOf:

- type: string

## ScType

anyOf:

- type: string

## KeyAmfType

anyOf:

- type: string

## TransferReason

**anyOf:**

- type: string

## AMPolicyReqTrigger

**anyOf:**

- type: string

## RatSelector

**anyOf:**

- type: string

## NgapleType

**anyOf:**

- type: string

## N2InfoNotifyReason

**anyOf:**

- type: string