



## Nnssf\_NSSelection

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The Nnssf\_NSSelection service is used by an NF Service Consumer (for example, AMF or NSSF in a different PLMN) to retrieve the information related to network slice in the non-roaming and roaming case. It also enables the NSSF to provide to the AMF the allowed NSSAI and the configured NSSAI for the serving PLMN. The NF service consumer discovers the NSSF based on the local configuration. The NSSF in a different PLMN is discovered based on the self-constructed FQDN as specified in 3GPP TS 23.003[9].

**Reference:** 3GPP TS 29.531 version 15.1.0 Release 15

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## OpenAPI

OpenAPI Version: 3.0.0

## info

**Version:** '1.0.0'

**Title:** 'NSSF NS Selection'

**Description:** 'NSSF Network Slice Selection Service'

## externalDocs

**Description:** 3GPP TS 29.531 V15.2.0; 5G System; Network Slice Selection Services; Stage 3

**URL:** [http://www.3gpp.org/ftp/Specs/archive/29\\_series/29.531/](http://www.3gpp.org/ftp/Specs/archive/29_series/29.531/)

## security

- {}
- oAuth2Clientcredentials:
- nnssf-nssselection

## servers

**URL:** '{apiRoot}/nnssf-nssselection/v1'

**Variables:**

**API Root:**

**Default:** https://example.com

**Description:** apiRoot as defined in subclause 4.4 of 3GPP TS 29.501

## paths

### /network-slice-information

**get:**

**Summary:** Retrieve the Network Slice Selection Information

**Tags:**

- Network Slice Information (Document)

**Operation ID:** NSSelectionGet

**Parameters:**

- name: nf-type

**In:** query

**Description:** NF type of the NF service consumer

**Required/Optional:** true

**Schema:**

**Reference:** 'TS29510\_Nnrf\_NFManagement.yaml#/components/schemas/NFType'

- name: nf-id

**In:** query

**Description:** NF Instance ID of the NF service consumer

**Required/Optional:** true

**Schema:**

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

- name: slice-info-request-for-registration

**In:** query

**Description:** Requested network slice information during Registration procedure

**Content:**

**Application/JSON:**

**Schema:**

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

- name: slice-info-request-for-pdu-session

**In:** query

**Description:** Requested network slice information during PDU session establishment procedure

**Content:**

**Application/JSON:**

**Schema:**

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

- name: home-plmn-id

**In:** query

**Description:** PLMN ID of the HPLMN

**Content:**

**Application/JSON:**

**Schema:**

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

- name: tai

**In:** query

**Description:** TAI of the UE

**Content:**

**Application/JSON:**

**Schema:**

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

- name: supported-features

**In:** query

**Description:** Features required to be supported by the NFs in the target slice instance

**Schema:**

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

**Responses:**

'200' OK (Successful Network Slice Selection)

**Content:****Application/JSON:****Schema:**

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

'400': Reference 'TS29571\_CommonData.yaml#/components/responses/400'

'401': Reference 'TS29571\_CommonData.yaml#/components/responses/401'

'403': Reference 'TS29571\_CommonData.yaml#/components/responses/403'

'404': Reference 'TS29571\_CommonData.yaml#/components/responses/404'

'406': Reference 'TS29571\_CommonData.yaml#/components/responses/406'

'414': Reference 'TS29571\_CommonData.yaml#/components/responses/414'

'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

## components

### securitySchemes

#### oAuth2ClientCredentials

**Type:** oauth2

**Flows:**

**clientCredentials:**

**tokenUrl:** '{nrfApiRoot}/oauth2/token'

**scopes:**

**nssf-nssselection:** Access to the Nssf\_NSSelection API

### schemas

#### AuthorizedNetworkSliceInfo

**Type:** object

**Properties:****allowedNssaiList:**

Type: array

**Items:**

Reference: '#/components/schemas/AllowedNssai'

minItems: 1

**configuredNssai:**

Type: array

**Items:**

Reference: '#/components/schemas/ConfiguredSnsai'

minItems: 1

**targetAmfSet:**

Type: string

**candidateAmfList:**

Type: array

**Items:**

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

minItems: 1

**rejectedNssaiInPlmn:**

Type: array

**Items:**

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

minItems: 1

**rejectedNssaiInTa:**

Type: array

**Items:**

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

minItems: 1

**nsiInformation:**

Reference: '#/components/schemas/NsiInformation'

**supportedFeatures:**

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

**nrfAmfSet:**

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

## SubscribedSnssai

**Type:** object

**Required:**

- subscribedSnssai

**Properties:**

**subscribedSnssai:**

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

**defaultIndication:**

**Type:** boolean

## AllowedSnssai

**Type:** object

**Required:**

- allowedSnssai

**Properties:**

**allowedSnssai:**

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

**nsiInformationList:**

**Type:** array

**Items:**

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

**minItems:** 1

**mappedHomeSnssai:**

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

## AllowedNssai

**Type:** object

**Required:**

- allowedSnssaiList

- accessType

**Properties:**

**allowedSnssaiList:**

**Type:** array

**Items:**

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

**minItems:** 1

**accessType:**

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

## NsiInformation

**Type:** object

**Required:**

- nrfId

**Properties:**

**nrfId:**

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

**nsiId:**

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

## MappingOfSnssai

**Type:** object

**Required:**

- servingSnssai

- homeSnssai

**Properties:**

**servingSnssai:**

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

**homeSnssai:**

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

## SliceInfoForRegistration

**Type:** object

**Properties:**

**subscribedNssai:**

**Type:** array

**Items:**

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

**minItems:** 1

**allowedNssaiCurrentAccess:**

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

**allowedNssaiOtherAccess:**

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

**sNssaiForMapping:**

**Type:** array

**Items:**

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

**minItems:** 1

**requestedNssai:**

**Type:** array

**Items:**

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

**minItems:** 1

**defaultConfiguredSnssaiInd:**

**Type:** boolean

**mappingOfNssai:**

**Type:** array

**Items:**

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

**minItems:** 1

**requestMapping:**

**Type:** boolean

## SliceInfoForPDUSession

**Type:** object

**Required:**

- sNssai

- roamingIndication

**Properties:**

**sNssai:**

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

**roamingIndication:**

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

**homeSnssai:**

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



## ConfiguredSnssai

**Type:** object

**Required:**

- configuredSnssai

**Properties:**

**configuredSnssai:**

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

**mappedHomeSnssai:**

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

## RoamingIndication

**anyOf:**

- type: string

**enum:**

- NON\_ROAMING

- LOCAL\_BREAKOUT

- HOME\_ROUTED\_ROAMING

- type: string

## Nsild

**Type:** string

