



NSSelection

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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'

Servers

URL: '{apiRoot}/nssf-nselection/v1'
Variables:
 API Root:
 Default: https://example.com
 Description: apiRoot as defined in subclause 4.4 of 3GPP TS 29.501

Security

- {}

- oAuth2Clientcredentials:
- nssf-nssselection

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'

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- 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':
  Description: 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

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securitySchemes:
  oAuth2ClientCredentials:
    Type: oAuth2
    Flows:
      clientCredentials:

```

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    tokenUrl: '{nrfApiRoot}/oauth2/token'
    scopes:
      nssf-nsselection: 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/ConfiguredSnssai'

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/Snssai'

minItems: 1

rejectedNssaiInTa:

Type: array

Items:

Reference: 'TS29571_CommonData.yaml#/components/schemas/Snssai'

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

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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:

```

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    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
NsiId:
  Type: string

```

External Docs

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/

