



# Nnrf AccessToken

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## OpenAPI

OpenAPI Version: 3.0.0

## Info

**Version:** '1.0.0'  
**Title:** 'NRF OAuth2'  
**Description:** 'NRF OAuth2 Authorization'

## Paths

### /oauth2/token

**Method:** Post  
**Summary:** Access Token Request  
**Operation ID:** AccessTokenRequest

**Tags:**  
- Access Token Request

**Request Body:**  
**Content:**  
application/x-www-form-urlencoded:  
**Schema:**

```

      Reference: '#/components/schemas/AccessTokenReq'
Required/Optional: true

Responses:
  '200':
    Description: Successful Access Token Request
    Content:
      Application/JSON:
        Schema:
          Reference: '#/components/schemas/AccessTokenRsp'
        Headers:
          Cache-Control:
            Reference: '#/components/headers/cache-control'
          Pragma:
            Reference: '#/components/headers/pragma'
  '400':
    Description: Error in the Access Token Request
    Content:
      Application/JSON:
        Schema:
          Reference: '#/components/schemas/AccessTokenErr'
        Headers:
          Cache-Control:
            Reference: '#/components/headers/cache-control'
          Pragma:
            Reference: '#/components/headers/pragma'

```

## Components

```

headers:
  cache-control:
    Required: true
    schema:
      Type: string
      enum:
        - no-store
  pragma:
    Required: true
    schema:
      Type: string
      enum:
        - no-cache

schemas:
  AccessTokenReq:
    Type: object
    Required:
      - grant_type
      - nfInstanceId
      - scope

```

```

Properties:
  grant_type:
    Type: string
    enum:
      - client_credentials
  nfInstanceId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
  nfType:
    Reference: 'TS29510_Nnrf_NFManagement.yaml#/components/schemas/NFType'
  targetNfType:
    Reference: 'TS29510_Nnrf_NFManagement.yaml#/components/schemas/NFType'
  scope:
    Type: string
    Pattern: '^([a-zA-Z0-9_-]+) ([a-zA-Z0-9_-]+)*$'
  targetNfInstanceId:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
  requesterPlmn:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/PlmnId'
  targetPlmn:
    Reference: 'TS29571_CommonData.yaml#/components/schemas/PlmnId'
AccessTokenRsp:
  Type: object
  Required:
    - access_token
    - token_type
  Properties:
    access_token:
      Type: string
      Description: JWS Compact Serialized representation of JWS signed JSON object
      (AccessTokenClaims)
    token_type:
      Type: string
    expires_in:
      Type: integer
    scope:
      Type: string
      Pattern: '^([a-zA-Z0-9_-]+) ([a-zA-Z0-9_-]+)*$'
AccessTokenClaims:
  Type: object
  Required:
    - issuer
    - subject
    - audience
    - scope
    - expiration
  Properties:
    issuer:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
    subject:
      Type: string
    audience:
      anyOf:
        - $ref: 'TS29510_Nnrf_NFManagement.yaml#/components/schemas/NFType'
        - type: array

```

```
    Items:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
      minItems: 1
  scope:
    Type: string
    Pattern: '^([a-zA-Z0-9_-]+) ([a-zA-Z0-9_-]+)*$'
  expiration:
    Type: integer
AccessTokenErr:
  Type: object
  Required:
    - error
  Properties:
    error:
      Type: string
    enum:
      - invalid_request
      - invalid_client
      - invalid_grant
      - unauthorized_client
      - unsupported_grant_type
      - invalid_scope
  error_description:
    Type: string
  error_uri:
    Type: string
```

## External Docs

**Description:** 3GPP TS 29.510 V15.2.0; 5G System; Network Function Repository Services; Stage 3

**URL:** '[http://www.3gpp.org/ftp/Specs/archive/29\\_series/29.510/](http://www.3gpp.org/ftp/Specs/archive/29_series/29.510/)'