



Nudm UEAU

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OpenAPI

OpenAPI Version: 3.0.0

Info

Version: '1.0.0'
Title: 'NudmUEAU'
Description: 'UDM UE Authentication Service'

Servers

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

Security

- oAuth2ClientCredentials:

```
- nudm-ueau
- {}
```

Paths

{/supiOrSuci}/security-information/generate-auth-data

Method: Post

Summary: Generate authentication data for the UE

Operation ID: GenerateAuthData

Tags:

- Generate Auth Data

Parameters:

- **Name:** supiOrSuci

In: path

Description: SUPI or SUCI of the user

Required/Optional: true

Schema:

Reference: '#/components/schemas/SupiOrSuci'

Request Body:

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/AuthenticationInfoRequest'

Required/Optional: true

Responses:

'200':

Description: Expected response to a valid request

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/AuthenticationInfoResult'

'400':

Reference: 'TS29571_CommonData.yaml#/components/responses/400'

'403':

Reference: 'TS29571_CommonData.yaml#/components/responses/403'

'404':

Reference: 'TS29571_CommonData.yaml#/components/responses/404'

'500':

Reference: 'TS29571_CommonData.yaml#/components/responses/500'

'501':

Reference: 'TS29571_CommonData.yaml#/components/responses/501'

'503':

Reference: 'TS29571_CommonData.yaml#/components/responses/503'

Default:

Description: Unexpected error

/{supi}/auth-events

Method: Post

Summary: Create a new confirmation event

Operation ID: ConfirmAuth

Tags:

- Confirm Auth

Parameters:

- **Name:** supi

In: path

Description: SUPI of the user

Required/Optional: true

Schema:

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

Request Body:

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/AuthEvent'

Required/Optional: true

Responses:

'201':

Description: Expected response to a valid request

Content:

Application/JSON:

Schema:

Reference: '#/components/schemas/AuthEvent'

Headers:

Location:

description: 'Contains the URI of the newly created resource, according to the structure: {apiRoot}/nudm-ueau/v1/{supi}/auth-events/{authEventId}'

Required/Optional: true

Schema:

Type: string

'400':

Reference: 'TS29571_CommonData.yaml#/components/responses/400'

'404':

Reference: 'TS29571_CommonData.yaml#/components/responses/404'

'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:
          nudm-ueau: Access to the nudm-ueau API

schemas:
# COMPLEX TYPES:
AuthenticationInfoRequest:
  Type: object
  Required:
    - servingNetworkName
    - ausfInstanceId
  Properties:
    supportedFeatures:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
    servingNetworkName:
      Reference: '#/components/schemas/ServingNetworkName'
    resynchronizationInfo:
      Reference: '#/components/schemas/ResynchronizationInfo'
    ausfInstanceId:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
AuthenticationInfoResult:
  Type: object
  Required:
    - authType
  Properties:
    authType:
      Reference: '#/components/schemas/AuthType'
    supportedFeatures:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
    authenticationVector:
      Reference: '#/components/schemas/AuthenticationVector'
    supi:
      Reference: 'TS29571_CommonData.yaml#/components/schemas/Supi'
AuthenticationVector:
  oneOf:
    - $ref: '#/components/schemas/AvEapAkaPrime'
    - $ref: '#/components/schemas/Av5GHeAka'
  discriminator:
    propertyName: avType
    mapping:
      5G_HE_AKA: '#/components/schemas/Av5GHeAka'
      EAP_AKA_PRIME: '#/components/schemas/AvEapAkaPrime'
AvEapAkaPrime:

```

Type: object

Required:

- avType
- rand
- xres
- autn
- ckPrime
- ikPrime

Properties:

avType:

Reference: '#/components/schemas/AvType'

rand:

Reference: '#/components/schemas/Rand'

xres:

Reference: '#/components/schemas/Xres'

autn:

Reference: '#/components/schemas/Autn'

ckPrime:

Reference: '#/components/schemas/CkPrime'

ikPrime:

Reference: '#/components/schemas/IkPrime'

Av5GHeAka:

Type: object

Required:

- avType
- rand
- xresStar
- autn
- kausf

Properties:

avType:

Reference: '#/components/schemas/AvType'

rand:

Reference: '#/components/schemas/Rand'

xresStar:

Reference: '#/components/schemas/XresStar'

autn:

Reference: '#/components/schemas/Autn'

kausf:

Reference: '#/components/schemas/Kausf'

ResynchronizationInfo:

Type: object

Required:

- rand
- auts

Properties:

rand:

Reference: '#/components/schemas/Rand'

auts:

Reference: '#/components/schemas/Auts'

AuthEvent:

Type: object

Required:

- nfInstanceId

```

- success
- timeStamp
- authType
- servingNetworkName
Properties:
nfInstanceId:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/NfInstanceId'
success:
  Reference: '#/components/schemas/Success'
timeStamp:
  Reference: 'TS29571_CommonData.yaml#/components/schemas/DateTime'
authType:
  Reference: '#/components/schemas/AuthType'
servingNetworkName:
  Reference: '#/components/schemas/ServingNetworkName'
# SIMPLE TYPES:
Autn:
  Type: string
  Pattern: '^[A-Za-f0-9]{32}$'
Auts:
  Type: string
  Pattern: '^[A-Za-f0-9]{28}$'
CkPrime:
  Type: string
  Pattern: '^[A-Za-f0-9]{32}$'
IkPrime:
  Type: string
  Pattern: '^[A-Za-f0-9]{32}$'
Kausf:
  Type: string
  Pattern: '^[A-Za-f0-9]{64}$'
Rand:
  Type: string
  Pattern: '^[A-Za-f0-9]{32}$'
Xres:
  Type: string
  Pattern: '^[A-Za-f0-9]{8,32}$'
XresStar:
  Type: string
  Pattern: '^[A-Za-f0-9]{32}$'
SupiOrSuci:
  Type: string
  Pattern: '^(imsi-[0-9]{5,15}|nai-.+|
suci-[0-9]{3}-[0-9]{2,3}|[1-7]-.+)-[0-9]{1,4}-[0-0-.+|[a-fA-F1-9]-([1-9]| [1-9] [0-9]|1[0-9]{2}|2[0-4] [0-9]|25[0-5])-[a-fA-F0-9]+|.+)$.+'
ServingNetworkName:
  Type: string
  Pattern: '^5G:mnc[0-9]{3}[.]mcc[0-9]{3}[.]3gppnetwork[.]org$'
Success:
  Type: boolean
# ENUMS:
AuthType:
  anyOf:

```

```
- type: string
  enum:
    - 5G_AKA
    - EAP_AKA_PRIME
    - EAP_TLS
- type: string
AvType:
anyOf:
- type: string
  enum:
    - 5G_HE_AKA
    - EAP_AKA_PRIME
- type: string
```

External Docs

Description: 3GPP TS 29.503 Unified Data Management Services, version 15.2.1

URL: 'http://www.3gpp.org/ftp/Specs/archive/29_series/29.503/'

