

openapi: 3.0.0

info:

version: 1.3.0-alpha.4

title: AUSF API

description: |

AUSF UE Authentication Service.

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externalDocs:

description: 3GPP TS 29.509 V18.3.0; 5G System; 3GPP TS Authentication Server services.

url: 'https://www.3gpp.org/ftp/Specs/archive/29_series/29.509'

servers:

- url: '{apiRoot}/nausf-auth/v1'

variables:

apiRoot:

default: https://example.com

description: apiRoot as defined in clause 4.4 of 3GPP TS 29.501.

security:

- {}

- oAuth2ClientCredentials:

- nausf-auth

paths:

/ue-authentications:

post:

security:

- {}

- oAuth2ClientCredentials:

- nausf-auth

- oAuth2ClientCredentials:

- nausf-auth

- nausf-auth:ue-authentications

requestBody:

content:

application/json:

schema:

\$ref: '#/components/schemas/AuthenticationInfo'

required: true

responses:

'201':

description: UEAuthenticationCtx

```

content:
  application/3gppHal+json:
    schema:
      $ref: '#/components/schemas/UEAuthenticationCtx'
headers:
  Location:
    description: 'Contains the URI of the newly created resource according to the structure:
{apiRoot}/nausf-auth/<apiVersion>/ue-authentications/{authCtxId}'
    required: true
    schema:
      type: string
'307':
  $ref: 'TS29571_CommonData.yaml#/components/responses/307'
'308':
  $ref: 'TS29571_CommonData.yaml#/components/responses/308'
'400':
  description: Bad Request from the AMF
  content:
    application/problem+json:
      schema:
        $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
'401':
  $ref: 'TS29571_CommonData.yaml#/components/responses/401'
'403':
  description: Forbidden due to serving network not authorized
  content:
    application/problem+json:
      schema:
        $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
'404':
  description: User does not exist in the HPLMN
  content:
    application/problem+json:
      schema:
        $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
'411':
  $ref: 'TS29571_CommonData.yaml#/components/responses/411'
'413':
  $ref: 'TS29571_CommonData.yaml#/components/responses/413'
'415':
  $ref: 'TS29571_CommonData.yaml#/components/responses/415'
'429':
  $ref: 'TS29571_CommonData.yaml#/components/responses/429'
'500':

```

description: Internal Server Error
 content:
 application/problem+json:
 schema:
 \$ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
 '501':
 description: Received protection scheme is not supported by HPLMN
 content:
 application/problem+json:
 schema:
 \$ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
 '502':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/502'
 '503':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/503'

/ue-authentications/deregister:

post:
 security:
 - {}
 - oAuth2ClientCredentials:
 - nausf-auth
 - oAuth2ClientCredentials:
 - nausf-auth
 - nausf-auth:ue-authentications
 requestBody:
 content:
 application/json:
 schema:
 \$ref: '##/components/schemas/DeregistrationInfo'
 required: true
 responses:
 '204':
 description: Expected response to a successful removal of security context
 '307':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/307'
 '308':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/308'
 '400':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/400'
 '401':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/401'
 '403':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/403'

'404':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/404'
 '411':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/411'
 '413':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/413'
 '415':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/415'
 '429':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/429'
 '500':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/500'
 '502':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/502'
 '503':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/503'

/ue-authentications/{authCtxId}/5g-aka-confirmation:

put:

security:

- {}
- oAuth2ClientCredentials:
 - nausf-auth
- oAuth2ClientCredentials:
 - nausf-auth
 - nausf-auth:ue-authentications

parameters:

- name: authCtxId
 - in: path
 - required: true
 - schema:
 - type: string

requestBody:

- content:
 - application/json:
 - schema:
 - \$ref: '#/components/schemas/ConfirmationData'

responses:

- '200':
 - description: Request processed (EAP success or Failure)
 - content:
 - application/json:
 - schema:
 - \$ref: '#/components/schemas/ConfirmationDataResponse'

'307':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/307'

'308':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/308'

'400':
 description: Bad Request
 content:
 application/problem+json:
 schema:
 \$ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'

'401':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/401'

'403':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/403'

'404':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/404'

'411':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/411'

'413':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/413'

'415':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/415'

'429':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/429'

'500':
 description: Internal Server Error
 content:
 application/problem+json:
 schema:
 \$ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'

'502':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/502'

'503':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/503'

delete:
 summary: Deletes the authentication result in the UDM
 operationId: Delete5gAkaAuthenticationResult
 tags:
 - Authentication Result Deletion
 security:
 - {}
 - oAuth2ClientCredentials:
 - nausf-auth

- oAuth2ClientCredentials:
- nausf-auth
- nausf-auth:ue-authentications

parameters:

- name: authCtxId
- in: path
- required: true
- schema:
- type: string

responses:

- '204':
- description: Expected response to a successful authentication result removal
- '307':
- \$ref: 'TS29571_CommonData.yaml#/components/responses/307'
- '308':
- \$ref: 'TS29571_CommonData.yaml#/components/responses/308'
- '400':
- \$ref: 'TS29571_CommonData.yaml#/components/responses/400'
- '401':
- \$ref: 'TS29571_CommonData.yaml#/components/responses/401'
- '403':
- \$ref: 'TS29571_CommonData.yaml#/components/responses/403'
- '404':
- \$ref: 'TS29571_CommonData.yaml#/components/responses/404'
- '429':
- \$ref: 'TS29571_CommonData.yaml#/components/responses/429'
- '500':
- \$ref: 'TS29571_CommonData.yaml#/components/responses/500'
- '502':
- \$ref: 'TS29571_CommonData.yaml#/components/responses/502'
- '503':
- \$ref: 'TS29571_CommonData.yaml#/components/responses/503'
- default:
- \$ref: 'TS29571_CommonData.yaml#/components/responses/default'

/ue-authentications/{authCtxId}/eap-session:

post:

operationId: EapAuthMethod

security:

- {}
- oAuth2ClientCredentials:
- nausf-auth
- oAuth2ClientCredentials:
- nausf-auth

- nausf-auth:ue-authentications

parameters:

- name: authCtxId
 - in: path
 - required: true
 - schema:
 - type: string

requestBody:

- content:
 - application/json:
 - schema:
 - \$ref: '#/components/schemas/EapSession'

responses:

'200':

- description: Use to handle or close the EAP session
- content:
 - application/json:
 - schema:
 - \$ref: '#/components/schemas/EapSession'

application/3gppHal+json:

- schema:
 - type: object
 - properties:
 - eapPayload:
 - \$ref: '#/components/schemas/EapPayload'
 - _links:
 - type: object
 - description: 'URI : /{eapSessionUri}, a map(list of key-value pairs) where member serves as key'
 - additionalProperties:
 - \$ref: 'TS29571_CommonData.yaml#/components/schemas/LinksValueSchema'
 - minProperties: 1
 - required:
 - eapPayload
 - _links

'307':

- \$ref: 'TS29571_CommonData.yaml#/components/responses/307'

'308':

- \$ref: 'TS29571_CommonData.yaml#/components/responses/308'

'400':

- description: Bad Request
- content:
 - application/problem+json:

```

    schema:
      $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
  '401':
    $ref: 'TS29571_CommonData.yaml#/components/responses/401'
  '403':
    $ref: 'TS29571_CommonData.yaml#/components/responses/403'
  '404':
    $ref: 'TS29571_CommonData.yaml#/components/responses/404'
  '411':
    $ref: 'TS29571_CommonData.yaml#/components/responses/411'
  '413':
    $ref: 'TS29571_CommonData.yaml#/components/responses/413'
  '415':
    $ref: 'TS29571_CommonData.yaml#/components/responses/415'
  '429':
    $ref: 'TS29571_CommonData.yaml#/components/responses/429'
  '500':
    description: Internal Server Error
    content:
      application/problem+json:
        schema:
          $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
  '502':
    $ref: 'TS29571_CommonData.yaml#/components/responses/502'
  '503':
    $ref: 'TS29571_CommonData.yaml#/components/responses/503'

```

delete:

summary: Deletes the authentication result in the UDM

operationId: DeleteEapAuthenticationResult

tags:

- Authentication Result Deletion

security:

- {}
- oAuth2ClientCredentials:
 - nausf-auth
- oAuth2ClientCredentials:
 - nausf-auth
 - nausf-auth:ue-authentications

parameters:

- name: authCtxId
 - in: path
 - required: true
 - schema:


```
    type: string
responses:
  '204':
    description: Expected response to a successful authentication result removal
  '307':
    $ref: 'TS29571_CommonData.yaml#/components/responses/307'
  '308':
    $ref: 'TS29571_CommonData.yaml#/components/responses/308'
  '400':
    $ref: 'TS29571_CommonData.yaml#/components/responses/400'
  '401':
    $ref: 'TS29571_CommonData.yaml#/components/responses/401'
  '403':
    $ref: 'TS29571_CommonData.yaml#/components/responses/403'
  '404':
    $ref: 'TS29571_CommonData.yaml#/components/responses/404'
  '429':
    $ref: 'TS29571_CommonData.yaml#/components/responses/429'
  '500':
    $ref: 'TS29571_CommonData.yaml#/components/responses/500'
  '502':
    $ref: 'TS29571_CommonData.yaml#/components/responses/502'
  '503':
    $ref: 'TS29571_CommonData.yaml#/components/responses/503'
  default:
    $ref: 'TS29571_CommonData.yaml#/components/responses/default'
```

/rg-authentications:

post:

security:

- {}
- oAuth2ClientCredentials:
 - nausf-auth
- oAuth2ClientCredentials:
 - nausf-auth
 - nausf-auth:rg-authentications

requestBody:

content:

application/json:

schema:

\$ref: '#/components/schemas/RgAuthenticationInfo'

required: true

responses:

'201':

```

description: RgAuthCtx
content:
  application/json:
    schema:
      $ref: '#/components/schemas/RgAuthCtx'
headers:
  Location:
    description: 'Contains the URI of the newly created resource according to the structure:
{apiRoot}/nausf-auth/<apiVersion>/rg-authentications/{authCtxId}'
    required: true
    schema:
      type: string
'307':
  $ref: 'TS29571_CommonData.yaml#/components/responses/307'
'308':
  $ref: 'TS29571_CommonData.yaml#/components/responses/308'
'400':
  description: Bad Request from the AMF
  content:
    application/problem+json:
      schema:
        $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
'401':
  $ref: 'TS29571_CommonData.yaml#/components/responses/401'
'403':
  description: The UE is not allowed to be authenticated
  content:
    application/problem+json:
      schema:
        $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
'404':
  description: User does not exist in the HPLMN
  content:
    application/problem+json:
      schema:
        $ref: 'TS29571_CommonData.yaml#/components/schemas/ProblemDetails'
'411':
  $ref: 'TS29571_CommonData.yaml#/components/responses/411'
'413':
  $ref: 'TS29571_CommonData.yaml#/components/responses/413'
'415':
  $ref: 'TS29571_CommonData.yaml#/components/responses/415'
'429':
  $ref: 'TS29571_CommonData.yaml#/components/responses/429'

```

'500':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/500'
'502':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/502'
'503':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/503'

/prose-authentications:

post:

security:

- {}
- oAuth2ClientCredentials:
 - nausf-auth
- oAuth2ClientCredentials:
 - nausf-auth
 - nausf-auth:prose-authentications

requestBody:

content:

application/json:

schema:

\$ref: '#/components/schemas/ProSeAuthenticationInfo'

required: true

responses:

'200':

description: Successful authentication with CP-PRUK ID

content:

application/json:

schema:

\$ref: '#/components/schemas/ProSeAuthenticationResult'

'201':

description: ProSeAuthenticationCtx

content:

application/3gppHal+json:

schema:

\$ref: '#/components/schemas/ProSeAuthenticationCtx'

headers:

Location:

description: 'Contains the URI of the newly created resource according to the structure:
{apiRoot}/nausf-auth/<apiVersion>/prose-authentications/{authCtxId}'

required: true

schema:

type: string

'307':

\$ref: 'TS29571_CommonData.yaml#/components/responses/307'
 '308':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/308'
 '400':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/400'
 '401':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/401'
 '403':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/403'
 '404':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/404'
 '411':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/411'
 '413':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/413'
 '415':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/415'
 '429':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/429'
 '500':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/500'
 '502':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/502'
 '503':
 \$ref: 'TS29571_CommonData.yaml#/components/responses/503'

/prose-authentications/{authCtxId}/prose-auth:

post:

operationId: proseAuth

security:

- {}
- oAuth2ClientCredentials:
 - nausf-auth
- oAuth2ClientCredentials:
 - nausf-auth
 - nausf-auth:prose-authentications

parameters:

- name: authCtxId
 - in: path
 - required: true
 - schema:
 - type: string

requestBody:

content:

```

    application/json:
      schema:
        $ref: '#/components/schemas/ProSeEapSession'
  responses:
    '200':
      description: Use to handle or close the EAP session for 5G ProSe Remote UE or a 5G
ProSe End UE
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/ProSeEapSession'
        application/3gppHal+json:
          schema:
            type: object
            properties:
              eapPayload:
                $ref: '#/components/schemas/EapPayload'
              _links:
                type: object
                description: 'URI : /{eapSessionUri}, a map(list of key-value pairs) where member
serves as key'
              additionalProperties:
                $ref: 'TS29571_CommonData.yaml#/components/schemas/LinksValueSchema'
            minProperties: 1
            required:
              - eapPayload
              - _links
    '307':
      $ref: 'TS29571_CommonData.yaml#/components/responses/307'
    '308':
      $ref: 'TS29571_CommonData.yaml#/components/responses/308'
    '400':
      $ref: 'TS29571_CommonData.yaml#/components/responses/400'
    '401':
      $ref: 'TS29571_CommonData.yaml#/components/responses/401'
    '403':
      $ref: 'TS29571_CommonData.yaml#/components/responses/403'
    '404':
      $ref: 'TS29571_CommonData.yaml#/components/responses/404'
    '411':
      $ref: 'TS29571_CommonData.yaml#/components/responses/411'
    '413':
      $ref: 'TS29571_CommonData.yaml#/components/responses/413'
    '415':

```

\$ref: 'TS29571_CommonData.yaml#/components/responses/415'
'429':
\$ref: 'TS29571_CommonData.yaml#/components/responses/429'
'500':
\$ref: 'TS29571_CommonData.yaml#/components/responses/500'
'502':
\$ref: 'TS29571_CommonData.yaml#/components/responses/502'
'503':
\$ref: 'TS29571_CommonData.yaml#/components/responses/503'

delete:

summary: Deletes the authentication result in the UDM

operationId: DeleteProSeAuthenticationResult

tags:

- Authentication Result Deletion

security:

- {}
- oAuth2ClientCredentials:
 - nausf-auth
- oAuth2ClientCredentials:
 - nausf-auth
 - nausf-auth:prose-authentications

parameters:

- name: authCtxId
 - in: path
 - required: true
 - schema:
 - type: string

responses:

'204':
description: Expected response to a successful authentication result removal
'307':
\$ref: 'TS29571_CommonData.yaml#/components/responses/307'
'308':
\$ref: 'TS29571_CommonData.yaml#/components/responses/308'
'400':
\$ref: 'TS29571_CommonData.yaml#/components/responses/400'
'401':
\$ref: 'TS29571_CommonData.yaml#/components/responses/401'
'403':
\$ref: 'TS29571_CommonData.yaml#/components/responses/403'
'404':
\$ref: 'TS29571_CommonData.yaml#/components/responses/404'
'429':

\$ref: 'TS29571_CommonData.yaml#/components/responses/429'
'500':
\$ref: 'TS29571_CommonData.yaml#/components/responses/500'
'502':
\$ref: 'TS29571_CommonData.yaml#/components/responses/502'
'503':
\$ref: 'TS29571_CommonData.yaml#/components/responses/503'
default:
\$ref: 'TS29571_CommonData.yaml#/components/responses/default'

components:

securitySchemes:

oAuth2ClientCredentials:

type: oauth2

flows:

clientCredentials:

tokenUrl: '{nrfApiRoot}/oauth2/token'

scopes:

nausf-auth: Access to Nausf_UEAuthentication API

nausf-auth:ue-authentications: >

Access to service operations applying to the collection of the ue-authentication resources and the subresources, i.e. 5g-aka-confirmation and eap-session

nausf-auth:rg-authentications: >

Access to service operations applying to the collection of the rg-authentication resources

nausf-auth:prose-authentications: >

Access to service operations applying to the collection of the prose-authentication resources and the subresources, i.e. prose-auth.

schemas:

AuthenticationInfo:

description: Contains the UE id (i.e. SUCI or SUPI) and the Serving Network Name.

type: object

properties:

supiOrSuci:

\$ref: 'TS29571_CommonData.yaml#/components/schemas/SupiOrSuci'

servingNetworkName:

\$ref: 'TS29503_Nudm_UEAU.yaml#/components/schemas/ServingNetworkName'

resynchronizationInfo:

\$ref: 'TS29503_Nudm_UEAU.yaml#/components/schemas/ResynchronizationInfo'

pei:

\$ref: 'TS29571_CommonData.yaml#/components/schemas/Pei'

traceData:

\$ref: 'TS29571_CommonData.yaml#/components/schemas/TraceData'
 udmGroupId:
 \$ref: 'TS29571_CommonData.yaml#/components/schemas/NfGroupId'
 routingIndicator:
 type: string
 pattern: '^[0-9]{1,4}\$'
 cellCagInfo:
 type: array
 items:
 \$ref: 'TS29571_CommonData.yaml#/components/schemas/CagId'
 minItems: 1
 n5gcInd:
 type: boolean
 default: false
 supportedFeatures:
 \$ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
 nswInd:
 type: boolean
 default: false
 disasterRoamingInd:
 type: boolean
 default: false
 onboardingInd:
 type: boolean
 default: false
 aun3Ind:
 type: boolean
 default: false
 required:
 - supiOrSuci
 - servingNetworkName

UEAuthenticationCtx:

description: Contains the information related to the resource generated to handle the UE authentication. It contains at least the UE id, Serving Network, the Authentication Method and related EAP information or related 5G-AKA information.

type: object
 properties:
 authType:
 \$ref: '##/components/schemas/AuthType'
 5gAuthData:
 oneOf:
 - \$ref: '##/components/schemas/Av5gAka'
 - \$ref: '##/components/schemas/EapPayload'

_links:
 type: object
 description: A map(list of key-value pairs) where member serves as key
 additionalProperties:
 \$ref: 'TS29571_CommonData.yaml#/components/schemas/LinksValueSchema'
 servingNetworkName:
 \$ref: 'TS29503_Nudm_UEAU.yaml#/components/schemas/ServingNetworkName'
 required:
 - authType
 - 5gAuthData
 - _links

Av5gAka:
 description: Contains Authentication Vector for method 5G AKA.
 type: object
 required:
 - rand
 - hxresStar
 - autn
 properties:
 rand:
 \$ref: 'TS29503_Nudm_UEAU.yaml#/components/schemas/Rand'
 hxresStar:
 \$ref: '##/components/schemas/HxresStar'
 autn:
 \$ref: 'TS29503_Nudm_UEAU.yaml#/components/schemas/Autn'

ConfirmationData:
 description: Contains the result of the authentication.
 type: object
 required:
 - resStar
 properties:
 resStar:
 \$ref: '##/components/schemas/ResStar'
 supportedFeatures:
 \$ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'

ConfirmationDataResponse:
 description: Contains the result of the authentication
 type: object
 properties:
 authResult:
 \$ref: '##/components/schemas/AuthResult'

supi:
 \$ref: 'TS29571_CommonData.yaml#/components/schemas/Supi'
kseaf:
 \$ref: '#/components/schemas/Kseaf'
pvsInfo:
 type: array
 items:
 \$ref: 'TS29571_CommonData.yaml#/components/schemas/ServerAddressingInfo'
 minItems: 1
required:
 - authResult

EapSession:

description: Contains information related to the EAP session.
type: object
properties:
 eapPayload:
 \$ref: '#/components/schemas/EapPayload'
 kseaf:
 \$ref: '#/components/schemas/Kseaf'
 _links:
 type: object
 description: A map(list of key-value pairs) where member serves as key
 additionalProperties:
 \$ref: 'TS29571_CommonData.yaml#/components/schemas/LinksValueSchema'
 authResult:
 \$ref: '#/components/schemas/AuthResult'
 supi:
 \$ref: 'TS29571_CommonData.yaml#/components/schemas/Supi'
 supportedFeatures:
 \$ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
 pvsInfo:
 type: array
 items:
 \$ref: 'TS29571_CommonData.yaml#/components/schemas/ServerAddressingInfo'
 minItems: 1
 msk:
 \$ref: '#/components/schemas/Msk'
required:
 - eapPayload

DeregistrationInfo:

description: Contains the UE id (i.e. SUPI).
type: object

properties:

supi:

\$ref: 'TS29571_CommonData.yaml#/components/schemas/Supi'

supportedFeatures:

\$ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'

required:

- supi

RgAuthenticationInfo:

description: Contains the UE id (i.e. SUCI) and the authenticated indication.

type: object

properties:

suci:

\$ref: '##/components/schemas/Suci'

authenticatedInd:

type: boolean

default: false

supportedFeatures:

\$ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'

required:

- suci

- authenticatedInd

RgAuthCtx:

description: Contains the UE id (i.e. SUPI) and the authentication indication.

type: object

properties:

authResult:

\$ref: '##/components/schemas/AuthResult'

supi:

\$ref: 'TS29571_CommonData.yaml#/components/schemas/Supi'

authInd:

type: boolean

default: false

required:

- authResult

AuthResult:

description: Indicates the result of the authentication.

type: string

enum:

- AUTHENTICATION_SUCCESS

- AUTHENTICATION_FAILURE

- AUTHENTICATION_ONGOING

EapPayload:

type: string

format: byte

description: contains an EAP packet

nullable: true

Kseaf:

description: Contains the Kseaf.

type: string

pattern: '[A-Fa-f0-9]{64}'

MsK:

description: Contains the Master Session Key.

type: string

pattern: '[A-Fa-f0-9]{128}'

ResStar:

description: Contains the RES*.

type: string

pattern: '[A-Fa-f0-9]{32}'

nullable: true

HxresStar:

description: Contains the HXRES*.

type: string

pattern: "[A-Fa-f0-9]{32}"

Suci:

description: Contains the SUCI.

type: string

pattern:

'^(suci-(0-[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]+)|.+)\$'

AuthType:

description: Indicates the authentication method used.

anyOf:

- type: string

enum:

- 5G_AKA

- EAP_AKA_PRIME

- EAP_TLS

- EAP_TTLS

- type: string

ProSeAuthenticationInfo:

description: >

Contains the UE id (i.e. SUCI) or CP-PRUK ID, Relay Service Code and Nonce_1.

type: object

properties:

supiOrSuci:

\$ref: 'TS29571_CommonData.yaml#/components/schemas/SupiOrSuci'

5gPrukId:

\$ref: 'TS29571_CommonData.yaml#/components/schemas/5GPrukId'

relayServiceCode:

\$ref: 'TS29571_CommonData.yaml#/components/schemas/RelayServiceCode'

nonce1:

\$ref: '##/components/schemas/Nonce1'

servingNetworkName:

\$ref: 'TS29503_Nudm_UEAU.yaml#/components/schemas/ServingNetworkName'

supportedFeatures:

\$ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'

required:

- relayServiceCode
- nonce1
- servingNetworkName

ProSeAuthenticationCtx:

description: Contains the information related to the resource generated to handle the ProSe authentication.

type: object

properties:

authType:

\$ref: '##/components/schemas/AuthType'

_links:

type: object

description: A map(list of key-value pairs) where member serves as key

additionalProperties:

\$ref: 'TS29571_CommonData.yaml#/components/schemas/LinksValueSchema'

proSeAuthData:

\$ref: '##/components/schemas/ProSeAuthData'

supportedFeatures:

\$ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'

required:

- authType
- _links
- proSeAuthData

ProSeEapSession:

description: Contains information related to the EAP session. If present the 5gPrukId IE shall carry the CP-PRUK ID.

type: object

properties:

eapPayload:

\$ref: '#/components/schemas/EapPayload'

knrProSe:

\$ref: '#/components/schemas/KnrProSe'

_links:

type: object

description: A map(list of key-value pairs) where member serves as key

additionalProperties:

\$ref: 'TS29571_CommonData.yaml#/components/schemas/LinksValueSchema'

authResult:

\$ref: '#/components/schemas/AuthResult'

supportedFeatures:

\$ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'

nonce2:

\$ref: '#/components/schemas/Nonce2'

5gPrukId:

\$ref: 'TS29571_CommonData.yaml#/components/schemas/5GPrukId'

required:

- eapPayload

ProSeAuthData:

description: Represents ProSe authentication related information.

oneOf:

- \$ref: '#/components/schemas/EapPayload'

ProSeAuthenticationResult:

description: Successful authentication for CP-PRUK ID.

type: object

properties:

knrProSe:

\$ref: '#/components/schemas/KnrProSe'

nonce2:

\$ref: '#/components/schemas/Nonce2'

supportedFeatures:

\$ref: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'

KnrProSe:

description: Contains the KNR_ProSe.

type: string
pattern: '[A-Fa-f0-9]{64}'
Nonce1:
type: string
format: byte
description: contains an Nonce1
nullable: true

Nonce2:
type: string
format: byte
description: contains an Nonce2
nullable: true