**3GPP TSG-CT WG4 Meeting #130C4-253628**

**Göteborg, Sweden; 25th – 29th August 2025**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **56** | **CR** | **0034** | **rev** |  | **Current version:** |  |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

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| ***Title:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Qualcomm | | | | | | | | | |
| ***Source to TSG:*** | CT4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** |  | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***Release:*** | | |  |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The following agreed CRs impact the Nnef\_Authentication API for the present release:   * C4-253509 29.571 CR0674 * C4-253558 29.510 CR1226   Note that the CR introduces backward compatible corrections.  Since a new TS version will be provided with changes to the OpenAPI specification file, the TS version number included in the "description" field of the "externalDocs" object also needs to be updated. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The TS29256\_Nnef\_Authentication API version incremented from value "1.2.0.alpha.2" to value "1.2.0.alpha.3".  The TS version number in the "description" field of the "externalDocs" object is changed to "19.3.0". | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Incorrect API version number and incorrect TS version number in the "description" field of the "externalDocs" object. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | A.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | | This CR introduces backward compatible correction to the following APIs: TS29256\_Nnef\_Authentication.yaml | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\* \* \* First Change \* \* \*

# A.2 Nnef\_Authentication API

openapi: 3.0.0

info:

title: Nnef\_Authentication

version: '1.2.0-alpha.3'

description: |

NEF Auth Service.

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externalDocs:

description: >

3GPP TS 29.256 V19.3.0; 5G System;Uncrewed Aerial Systems Network Function (UAS-NF);

Aerial Management Services; Stage 3

url: https://www.3gpp.org/ftp/Specs/archive/29\_series/29.256/

servers:

- url: '{apiRoot}/nnef-authentication/v1'

variables:

apiRoot:

default: https://example.com

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

security:

- {}

- oAuth2ClientCredentials:

- nnef-authentication

paths:

/uav-authentications:

post:

summary: UAV authentication

tags:

- UAV authentication

requestBody:

description: UAV authentication

required: true

content:

application/json:

schema:

$ref: '#/components/schemas/UAVAuthInfo'

responses:

'200':

description: UAV Auth response or message exchange

content:

application/json:

schema:

$ref: '#/components/schemas/UAVAuthResponse'

'307':

$ref: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

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

'403':

description: UAV authentication failure

content:

application/json:

schema:

$ref: '#/components/schemas/UAVAuthFailure'

'504':

$ref: 'TS29571\_CommonData.yaml#/components/responses/504'

default:

$ref: 'TS29571\_CommonData.yaml#/components/responses/default'

callbacks:

authNotification:

'{$request.body#/authNotificationURI}':

post:

requestBody:

required: true

content:

application/json:

schema:

$ref: '#/components/schemas/AuthNotification'

responses:

'204':

description: Successful Notification response

'307':

$ref: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

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

default:

$ref: 'TS29571\_CommonData.yaml#/components/responses/default'

components:

securitySchemes:

oAuth2ClientCredentials:

type: oauth2

flows:

clientCredentials:

tokenUrl: '{nrfApiRoot}/oauth2/token'

scopes:

nnef-authentication: Access to the Nnef\_authentication API

schemas:

#

# STRUCTURED DATA TYPES

#

UAVAuthInfo:

description: UAV auth data

type: object

required:

- gpsi

- serviceLevelId

- nfType

properties:

gpsi:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Gpsi'

serviceLevelId:

type: string

authNotificationURI:

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

ipAddr:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/IpAddr'

pei:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Pei'

authServerAddress:

type: string

authMsg:

allOf:

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/RefToBinaryData'

deprecated: true

authContainer:

type: array

items:

$ref: '#/components/schemas/AuthContainer'

minItems: 1

ueLocInfo:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/UserLocation'

dnn:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Dnn'

sNssai:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/ExtSnssai'

nfType:

$ref: 'TS29510\_Nnrf\_NFManagement.yaml#/components/schemas/NFType'

UAVAuthResponse:

description: UAV auth response data

type: object

required:

- gpsi

properties:

gpsi:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Gpsi'

serviceLevelId:

type: string

authMsg:

allOf:

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/RefToBinaryData'

deprecated: true

authContainer:

type: array

items:

$ref: '#/components/schemas/AuthContainer'

minItems: 1

authResult:

allOf:

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

deprecated: true

notifyCorrId:

type: string

authSessAmbr:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Ambr'

authProfIndex:

type: string

AuthNotification:

description: UAV related notification

type: object

required:

- gpsi

- serviceLevelId

- notifType

- notifyCorrId

properties:

gpsi:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Gpsi'

serviceLevelId:

type: string

notifyCorrId:

type: string

authMsg:

allOf:

- $ref: 'TS29571\_CommonData.yaml#/components/schemas/RefToBinaryData'

deprecated: true

authContainer:

type: array

items:

$ref: '#/components/schemas/AuthContainer'

minItems: 1

notifType:

$ref: '#/components/schemas/NotifType'

UAVAuthFailure:

description: UAV auth failure

type: object

required:

- error

properties:

error:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/ProblemDetails'

uasResourceRelease:

type: boolean

default: false

AuthContainer:

description: Authentication/Authorization data

type: object

properties:

authMsgType:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/Bytes'

authMsgPayload:

$ref: 'TS29571\_CommonData.yaml#/components/schemas/RefToBinaryData'

authResult:

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

#

# SIMPLE DATA TYPES

#

#

# ENUMERATIONS

#

AuthResult:

description: Enumeration representing the result of authentication and/or authorization.

anyOf:

- type: string

enum:

- AUTH\_SUCCESS

- AUTH\_FAIL

- type: string

NotifType:

description: Enumeration representing the type of notification.

anyOf:

- type: string

enum:

- REAUTH

- UPDATEAUTH

- REVOKE

- type: string

\* \* \* End of Changes \* \* \*