**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 canbe 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 \* \* \*