**3GPP TSG-CT WG3 Meeting #123e *C3-224737***

**E-meeting, 18th - 26th, August, 2022**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.255** | **CR** | **0020** | **rev** | **-** | **Current version:** | **17.1.0** |  |
|  | | | | | | | | |
| *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:*** | Update of info and externalDocs fields | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Qualcomm Incorporated | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI17 | | | | |  | ***Date:*** | | | 2022-08-28 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | CRs modifying the Naf\_Authentication API have been agreed and the version number of the corresponding OpenAPI file thus needs to be incremented following the rules in TS 29.501, subclause 4.3.1.  The following agreed CRs update theOpenAPI file for Naf\_Authentication APIfor the present release:   * TS 29.255 CR 0013 CR introduces backward compatible corrections * TS 29.255 CR 0016 CR introduces backward compatible corrections * TS 29.255 CR 0017 CR introduces backward compatible changes * TS 29.255 CR 0018 CR introduces backward compatible corrections * TS 29.255 CR 0019 CR introduces backward compatible corrections   The API version need to be updated from 1.0.0 to 1.0.1.  Hence, update the corresponding TS version in externalDocs field to 17.2.0. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Update the API version number and TS version in externalDocs field for the above API. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Incorrect API version number and TS version in externalDocs field. | | | | | | | | |
|  | |  | | | | | | | | |
| ***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's revision history:*** | |  | | | | | | | | |

**Additional discussion(if needed):**

**Proposed changes:**

\*\*\* 1st Change \*\*\*

# A.2 Naf\_Authentication API

openapi: 3.0.0

info:

title: Naf\_Authentication

version: 1.0.1

description: |

AF Authentication Service.

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externalDocs:

description: >

3GPP TS 29.255 V17.2.0; 5G System;Uncrewed Aerial System Service Supplier (USS) Services; Stage

3.

url: https://www.3gpp.org/ftp/Specs/archive/29\_series/29.255/

servers:

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

variables:

apiRoot:

default: https://example.com

description: apiRoot as defined in clause 5.2.4 of 3GPP TS 29.122

security:

- {}

- oAuth2ClientCredentials: []

paths:

/request-auth:

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: 'TS29122\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29122\_CommonData.yaml#/components/responses/308'

'400':

$ref: 'TS29122\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29122\_CommonData.yaml#/components/responses/401'

'403':

description: >

The request is rejected by the USS and more details (not only the ProblemDetails) are

returned.

content:

application/problem+json:

schema:

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

'404':

$ref: 'TS29122\_CommonData.yaml#/components/responses/404'

'411':

$ref: 'TS29122\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29122\_CommonData.yaml#/components/responses/413'

'415':

$ref: 'TS29122\_CommonData.yaml#/components/responses/415'

'429':

$ref: 'TS29122\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29122\_CommonData.yaml#/components/responses/500'

'503':

$ref: 'TS29122\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29122\_CommonData.yaml#/components/responses/default'

callbacks:

reauthRevokeNotification:

'{request.body#/notifyUri}':

post:

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'204':

description: Successful Notification response

'307':

$ref: 'TS29122\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29122\_CommonData.yaml#/components/responses/308'

'400':

$ref: 'TS29122\_CommonData.yaml#/components/responses/400'

'401':

$ref: 'TS29122\_CommonData.yaml#/components/responses/401'

'403':

$ref: 'TS29122\_CommonData.yaml#/components/responses/403'

'404':

$ref: 'TS29122\_CommonData.yaml#/components/responses/404'

'411':

$ref: 'TS29122\_CommonData.yaml#/components/responses/411'

'413':

$ref: 'TS29122\_CommonData.yaml#/components/responses/413'

'415':

$ref: 'TS29122\_CommonData.yaml#/components/responses/415'

'429':

$ref: 'TS29122\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29122\_CommonData.yaml#/components/responses/500'

'503':

$ref: 'TS29122\_CommonData.yaml#/components/responses/503'

default:

$ref: 'TS29122\_CommonData.yaml#/components/responses/default'

components:

securitySchemes:

oAuth2ClientCredentials:

type: oauth2

flows:

clientCredentials:

tokenUrl: '{tokenUrl}'

scopes: {}

schemas:

#

# STRUCTURED DATA TYPES

#

UAVAuthInfo:

description: UAV auth data

type: object

required:

- gpsi

- serviceLevelId

properties:

gpsi:

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

serviceLevelId:

type: string

notifyUri:

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

notifyCorrId:

type: string

ipAddr:

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

pei:

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

authMsg:

type: string

uavLocInfo:

$ref: 'TS29122\_CommonData.yaml#/components/schemas/LocationArea5G'

suppFeat:

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

UAVAuthResponse:

description: UAV auth response data

type: object

required:

- gpsi

properties:

gpsi:

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

authMsg:

type: string

authResult:

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

suppFeat:

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

ReauthRevokeNotify:

description: UAV related notification

type: object

required:

- gpsi

- serviceLevelId

- notifyType

properties:

gpsi:

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

serviceLevelId:

type: string

notifyCorrId:

type: string

authMsg:

type: string

notifyType:

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

ipAddr:

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

#

# SIMPLE DATA TYPES

#

#

# ENUMERATIONS

#

AuthResult:

anyOf:

- type: string

enum:

- AUTH\_SUCCESS

- type: string

NotifyType:

anyOf:

- type: string

enum:

- REAUTHENTICATE

- REAUTHORIZE

- REVOKE

- type: string

ProblemDetailsAuthenticateAuthorize:

description: Extends ProblemDetails to indicate more details during Authentication failure

allOf:

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

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

AdditionInfoAuthenticateAuthorize:

description: Indicates additional information during authentication failure

type: object

properties:

uasResRelInd:

type: boolean

description: >

Indicates to release the UAV resources during authentication failure, when set to

"true". Default is set to "false".

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