**3GPP TSG-CT WG3 Meeting #130 C3-234553**

**Xiamen, China, 9 - 13 October,2023 (Revision of C3-234185)**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.591** | **CR** | **0139** | **rev** | **2** | **Current version:** | **18.3.0** |  |
|  | | | | | | | | |
| *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:*** | Nnef\_UEId API OpenAPI file definitions | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson, KDDI, Nokia, Nokia Shanghai Bell | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | EDGE\_Ph2 | | | | |  | ***Date:*** | | | 2023-09-15 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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:*** | | TS 23.502 clause 5.2.6.27 added GPSI and External Group Identifier as Input parameters, also added SUPI and Internal Group Identifier as output parameters. TS 23.502 clause 4.3.6.5 and TS 23.548 clause 6.2.3.4 described V-NEF provide GPSI/External Group Identifier to fetch SUPI/Internal Group Identifier from H-NEF for roaming UE to support HR-SBO with roaming partner(s).  In this case upon the NF service consumer V-NEF inside 5GC and SUPI or Internal Group Identifier is sensitive internal UE ID shall not be risk of external exposure in the existing NEF northbound UEId API.  Upon SA2 and CT3 alignment, the not applicable Group Id will not be implemented.  Hence corresponding internal UE ID retrieval needs to be defined in NEF southbound API in this specification. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Adding OpenAPI file definitions for the new Nnef\_UEId service. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Not safely supporting stage 2 requirement on V-NEF fetch SUPI from H-NEF for roaming UE. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | A.7(new) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 a new OpenAPI file of the Nnef\_UEId API. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

**Additional discussion(if needed):**

**Proposed changes:**

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

# A.7 Nnef\_UEId API

openapi: 3.0.0

info:

title: Nnef\_UEId

version: 1.0.0-alpha.1

description: |

NEF Traffic Correlation Service.

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externalDocs:

description: >

3GPP TS 29.591 V18.4.0; 5G System; Network Exposure Function Southbound Services; Stage 3.

url: https://www.3gpp.org/ftp/Specs/archive/29\_series/29.591/

servers:

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

variables:

apiRoot:

default: https://example.com

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

security:

- {}

- oAuth2ClientCredentials:

- nnef-ueid

paths:

/fetch:

post:

summary: fetch the Internal UE Identifier for roaming UE(s).

operationId: FetchUEId

tags:

- UE ID (Document)

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'200':

description: The requested information was returned successfully.

content:

application/json:

schema:

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

'204':

description: No Content (The requested Internal UE Identifier does not exist.)

'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/response/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'

default:

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

components:

securitySchemes:

oAuth2ClientCredentials:

type: oauth2

flows:

clientCredentials:

tokenUrl: '{nrfApiRoot}/oauth2/token'

scopes:

nnef-ueid: Access to the UE ID API

schemas:

UeIdReq:

description: Contains parameters to request to fetch the Internal UE Identifier.

type: object

properties:

gpsi:

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

required:

- gpsi

UeIdInfo:

description: Contains the UE ID Information.

type: object

properties:

supi:

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

required:

- supi

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