**3GPP TSG- Meeting #**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** |  | **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:*** | MFAF service consumers | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eNetAE | | | | |  | ***Date:*** | | | 2024-05-20 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The NWDAF is missing as possible initiator of Nmfaf\_3daDataManagement service requests. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Corrected the wrong service consumers list, because the NWDAF can also configure the MFAF based on stage 2 requirements and also based on clause 4.2.1.3.2 of this TS, as well as some small mistakes in the OpenAPI. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Inconsistent spec. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.2.2.1, 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 a backwards compatible correction into the OpenAPI file of the Nmfaf\_3daDataManagement API. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

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

4.2.2.1 Introduction

**Table 4.2.2.1-1: Operations of the Nmfaf\_3daDataManagement Service**

| **Service operation name** | **Description** | **Initiated by** |
| --- | --- | --- |
| Nmfaf\_3daDataManagement\_Configure | This service operation is used by an NF to configure or reconfigure the MFAF to map data or analytics received by the MFAF to out-bound notification endpoints and to format and process the outbound data or analytics | NF service consumer (DCCF, NWDAF) |
| Nmfaf\_3daDataManagement\_Deconfigure | This service operation is used by an NF to stop mapping data or analytics received by the MFAF to one or more outbound notification endpoints. | NF service consumer (DCCF, NWDAF) |

\*\*\* Next Change \*\*\*

A.2 Nmfaf\_3daDataManagement API

openapi: 3.0.0

info:

version: 1.1.0-alpha.2

title: Nmfaf\_3daDataManagement

description: |

MFAF 3GPP DCCF Adaptor (3DA) Data Management Service.

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externalDocs:

description: 3GPP TS 29.576 V18.1.0; 5G System; Messaging Framework Adaptor Services; Stage 3.

url: 'https://www.3gpp.org/ftp/Specs/archive/29\_series/29.576/'

servers:

- url: '{apiRoot}/nmfaf-3dadatamanagement/v1'

variables:

apiRoot:

default: https://example.com

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

security:

- oAuth2ClientCredentials:

- nmfaf-3dadatamanagement

- {}

paths:

/configurations:

post:

summary: Creates a new Individual MFAF Configuration resource.

operationId: CreateMFAFConfiguration

tags:

- MFAF Configuration(Collection)

requestBody:

content:

application/json:

schema:

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

required: true

description: >

Contains the information for the creation of a new Individual MFAF

Configuration resource.

responses:

'201':

description: Successful creation of new Individual MFAF Configuration resource.

headers:

Location:

description: >

Contains the URI of the newly created resource, according to the structure

{apiRoot}/nmfaf-3dadatamanagement/<apiVersion>/configurations/{transRefId}

required: true

schema:

type: string

content:

application/json:

schema:

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

'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'

default:

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

/configurations/{transRefId}:

put:

summary: Updates an existing Individual MFAF Configuration resource.

operationId: UpdateMFAFConfiguration

tags:

- Individual MFAF Configuration (Document)

requestBody:

required: true

content:

application/json:

schema:

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

parameters:

- name: transRefId

in: path

description: Unique identifier of the Individual MFAF Configuration resource.

required: true

schema:

type: string

responses:

'200':

description: The updated Individual MFAF Configuration resource is returned.

content:

application/json:

schema:

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

'204':

description: The Individual MFAF Configuration resource was modified successfully.

'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'

'501':

$ref: 'TS29571\_CommonData.yaml#/components/responses/501'

'502':

$ref: 'TS29571\_CommonData.yaml#/components/responses/502'

'503':

$ref: 'TS29571\_CommonData.yaml#/components/responses/503'

default:

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

delete:

summary: Deletes an existing Individual MFAF Configuration resource.

operationId: DeleteMFAFConfiguration

tags:

- Individual MFAF Configuration (Document)

parameters:

- name: transRefId

in: path

description: Unique identifier of the Individual MFAF Configuration resource.

required: true

schema:

type: string

responses:

'204':

description: >

No Content. The Individual MFAF Configuration resource matching

the transRefId was deleted.

'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:

nmfaf-3dadatamanagement: Access to the nmfaf-3dadatamanagement API

schemas:

MfafConfiguration:

description: Represents an Individual MFAF Configuration.

type: object

required:

- messageConfigurations

properties:

messageConfigurations:

type: array

items:

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

minItems: 1

description: The configuration of the MFAF for mapping data or analytics.

MessageConfiguration:

description: Represents the message configuration.

type: object

required:

- notificationURI

- correId

properties:

correId:

type: string

description: >

If the configuration is used for mapping analytics or data collection,

representing the Analytics Consumer Notification Correlation ID or

Data Consumer Notification Correlation ID.

formatInstruct:

$ref: 'TS29574\_Ndccf\_DataManagement.yaml#/components/schemas/FormattingInstruction'

mfafNotiInfo:

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

notificationURI:

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

notifEndpoints:

type: array

items:

$ref: 'TS29574\_Ndccf\_DataManagement.yaml#/components/schemas/NotifyEndpoint'

minItems: 1

description: The information of notification endpoints.

procInstruct:

$ref: 'TS29574\_Ndccf\_DataManagement.yaml#/components/schemas/ProcessingInstruction'

multiProcInstructs:

type: array

items:

$ref: 'TS29574\_Ndccf\_DataManagement.yaml#/components/schemas/ProcessingInstruction'

minItems: 1

description: Processing instructions to be used for sending event notifications.

adrfId:

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

suppFeat:

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

MfafNotiInfo:

description: >

The MFAF notification information. It shall be provided in a response message

if it had not been provided in the respective request message.

type: object

required:

- mfafNotifUri

- mfafCorreId

properties:

mfafNotifUri:

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

mfafCorreId:

type: string

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