**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** |

|  |
| --- |
|  |
| ***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 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 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 \*\*\*