**3GPP TSG-CT3 Meeting #122e C3-223729**

**E-Meeting, 12th –20th May 2022**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.574** | **CR** | **0023** | **rev** | **-** | **Current version:** | **17.0.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **x** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Update of info and externalDocs fields | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI17 | | | | |  | ***Date:*** | | | 2022-05-20 |
|  |  | | | |  | |  | | |  |
| ***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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | CRs modifying Ndccf\_DataManagement API and Ndccf\_ContextManagement API have been agreed and the version number of the corresponding OpenAPI files thus need to be incremented following the rules in TS 29.501, clause 4.3.1.  The following agreed CRs update the Ndccf\_DataManagement API for the present release:  - TS 29.574 CR #0020 is a backward compatible correction in Rel-17.  - TS 29.574 CR #0002 is a backward compatible feature in Rel-17.  - TS 29.574 CR #0005 is a backward compatible feature in Rel-17.  - TS 29.574 CR #0006 is a backward compatible feature in Rel-17.  - TS 29.574 CR #0009 is a backward compatible correction in Rel-17.  - TS 29.574 CR #0010 is a backward compatible correction in Rel-17.  - TS 29.571 CR #0354 is a backward compatible correction in Rel-17.  As the present release is not frozen, the API version needs to be upated from "1.0.0-alpha.3" to "1.0.0", and the TS version in the externalDocs field from "17.0.0" to "17.1.0".  The following agreed CRs update the Ndccf\_ContextManagement API for the present release:  - TS 29.574 CR #0020 is a backward compatible correction in Rel-17.  - TS 29.574 CR #0002 is a backward compatible feature in Rel-17.  - TS 29.574 CR #0011 is a backward compatible correction in Rel-17.  - TS 29.571 CR #0354 is a backward compatible correction in Rel-17.  As the present release is not frozen, the API version needs to be upated from "1.0.0-alpha.3" to "1.0.0", and the TS version in the externalDocs field from "17.0.0" to "17.1.0". | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The Ndccf\_DataManagement API and Ndccf\_ContextManagement API version value changed to "1.0.0".  The TS version number included in the "description" field of the "externalDocs" object changed to "17.1.0". | | | | | | | | |
|  | |  | | | | | | | | |
| ***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, A.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

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

## A.2 Ndccf\_DataManagement API

openapi: 3.0.0

info:

version: 1.0.0

title: Ndccf\_DataManagement

description: |

DCCF Data Management Service.

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externalDocs:

description: 3GPP TS 29.574 V17.1.0; 5G System; Data Collection Coordination Services; Stage 3.

url: 'https://www.3gpp.org/ftp/Specs/archive/29\_series/29.574/'

#

servers:

- url: '{apiRoot}/ndccf-datamanagement/v1'

variables:

apiRoot:

default: https://example.com

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

#

security:

- oAuth2ClientCredentials:

- ndccf-datamanagement

- {}

#

paths:

/analytics-subscriptions:

post:

summary: Creates a new Individual DCCF Analytics Subscription resource.

operationId: CreateDCCFAnalyticsSubscription

tags:

- DCCF Analytics Subscriptions (Collection)

requestBody:

description: Contains the information for the creation the resource

content:

application/json:

schema:

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

required: true

responses:

'201':

description: Create a new Individual DCCF Analytics Subscription resource.

headers:

Location:

description: >

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

{apiRoot}/ndccf-datamanagement/v1/analytics-subscriptions/{subscriptionId}

required: true

schema:

type: string

content:

application/json:

schema:

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

'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'

'503':

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

default:

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

callbacks:

dccfAnalyticsNotification:

'{$request.body#/anaNotifUri}':

post:

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'204':

description: The receipt of the notification is acknowledged.

'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'

'503':

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

default:

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

/analytics-subscriptions/{subscriptionId}:

delete:

summary: Delete an existing Individual DCCF Data Subscription

operationId: DeleteDCCFAnalyticsSubscription

tags:

- Individual DCCF Analytics Subscription (Document)

parameters:

- name: subscriptionId

in: path

description: >

String identifying a analytics subscription to the Ndccf\_DataManagement Service

required: true

schema:

type: string

responses:

'204':

description: >

No Content. The Individual DCCF Analytics Subscription resource matching the

subscriptionId 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'

'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'

'503':

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

default:

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

put:

summary: Update an existing Individual DCCF Analytics Subscription

operationId: UpdateDCCFAnalyticsSubscription

tags:

- Individual DCCF Analytics Subscription (Document)

requestBody:

required: true

content:

application/json:

schema:

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

parameters:

- name: subscriptionId

in: path

description: >

String identifying a analytics subscription to the Ndccf\_DataManagement Service

required: true

schema:

type: string

responses:

'200':

description: >

The Individual DCCF Analytics Subscription resource was modified successfully and a

representation of that resource is returned.

content:

application/json:

schema:

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

'204':

description: >

The Individual DCCF Analytics Subscription 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'

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$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'

'503':

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

default:

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

/data-subscriptions:

post:

summary: Creates a new Individual DCCF Data Subscription resource.

operationId: CreateDCCFDataSubscription

tags:

- DCCF Data Subscriptions (Collection)

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'201':

description: Create a new Individual DCCF Data Subscription resource.

headers:

Location:

description: >

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

{apiRoot}/ndccf-datamanagement/v1/data-subscriptions/{subscriptionId}

required: true

schema:

type: string

content:

application/json:

schema:

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

'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'

'503':

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

default:

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

callbacks:

dccfDataNotification:

'{$request.body#/dataNotifUri}':

post:

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'204':

description: The receipt of the notification is acknowledged.

'307':

$ref: 'TS29571\_CommonData.yaml#/components/responses/307'

'308':

$ref: 'TS29571\_CommonData.yaml#/components/responses/308'

'400':

$ref: 'TS29571\_CommonData.yaml#/components/responses/400'

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$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'

'503':

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

default:

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

/data-subscriptions/{subscriptionId}:

delete:

summary: Delete an existing Individual DCCF Data Subscription

operationId: DeleteDCCFDataSubscription

tags:

- Individual DCCF Data Subscription (Document)

parameters:

- name: subscriptionId

in: path

description: String identifying a data subscription to the Ndccf\_DataManagement Service

required: true

schema:

type: string

responses:

'204':

description: >

No Content. The Individual DCCF Data Subscription resource matching the subscriptionId

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'

'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'

'503':

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

default:

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

put:

summary: Update an existing Individual DCCF Data Subscription

operationId: UpdateDCCFDataSubscription

tags:

- Individual DCCF Data Subscription (Document)

requestBody:

required: true

content:

application/json:

schema:

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

parameters:

- name: subscriptionId

in: path

description: >

String identifying a data subscription to the Ndccf\_DataManagement Service

required: true

schema:

type: string

responses:

'200':

description: >

The Individual DCCF Data Subscription resource was modified successfully and a

representation of that resource is returned.

content:

application/json:

schema:

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

'204':

description: >

The Individual DCCF Data Subscription 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'

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$ref: 'TS29571\_CommonData.yaml#/components/responses/411'

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$ref: 'TS29571\_CommonData.yaml#/components/responses/415'

'429':

$ref: 'TS29571\_CommonData.yaml#/components/responses/429'

'500':

$ref: 'TS29571\_CommonData.yaml#/components/responses/500'

'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:

ndccf-datamanagement: Access to the ndccf-datamanagement API

#

schemas:

#

NdccfAnalyticsSubscription:

description: Represents an Individual DCCF Analytics Subscription.

type: object

required:

- anaSub

- anaNotifUri

- anaNotifCorrId

properties:

anaSub:

$ref: 'TS29520\_Nnwdaf\_EventsSubscription.yaml#/components/schemas/NnwdafEventsSubscription'

anaNotifUri:

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

anaNotifCorrId:

type: string

description: Notification correlation identifier.

formatInstruct:

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

procInstructs:

type: array

items:

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

minItems: 1

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

targetNfId:

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

targetNfSetId:

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

#

NdccfDataSubscription:

description: Represents an Individual DCCF Data Subscription.

type: object

required:

- dataNotifUri

- dataNotifCorrId

oneOf:

- required: [amfDataSub]

- required: [smfDataSub]

- required: [udmDataSub]

- required: [nefDataSub]

- required: [afDataSub]

properties:

amfDataSub:

$ref: 'TS29518\_Namf\_EventExposure.yaml#/components/schemas/AmfEventSubscription'

smfDataSub:

$ref: 'TS29508\_Nsmf\_EventExposure.yaml#/components/schemas/NsmfEventExposure'

udmDataSub:

$ref: 'TS29503\_Nudm\_EE.yaml#/components/schemas/EeSubscription'

afDataSub:

$ref: 'TS29517\_Naf\_EventExposure.yaml#/components/schemas/AfEventExposureSubsc'

nefDataSub:

$ref: 'TS29591\_Nnef\_EventExposure.yaml#/components/schemas/NefEventExposureSubsc'

dataNotifUri:

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

dataNotifCorrId:

type: string

description: Notification correlation identifier.

formatInstruct:

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

procInstructs:

type: array

items:

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

minItems: 1

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

targetNfId:

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

targetNfSetId:

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

#

NdccfAnalyticsSubscriptionNotification:

description: Represents a notification for a DCCF analytics subscription.

type: object

required:

- anaNotifCorrId

oneOf:

- required: [anaNotifications]

- required: [anaReports]

- required: [fetchInstruct]

properties:

anaNotifCorrId:

type: string

description: Notification correlation identifier.

anaNotifications:

type: array

items:

$ref: 'TS29520\_Nnwdaf\_EventsSubscription.yaml#/components/schemas/NnwdafEventsSubscriptionNotification'

minItems: 1

description: List of analytics subscription notifications.

anaReports:

type: array

items:

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

minItems: 1

description: >

List of reports with summarized data from multiple analytics notifications that the DCCF

has received from NWDAF.

fetchInstruct:

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

#

NdccfDataSubscriptionNotification:

description: Represents a notification for a DCCF data subscription.

type: object

required:

- dataNotifCorrId

oneOf:

- required: [amfEventNotifs]

- required: [smfEventNotifs]

- required: [udmEventNotifs]

- required: [nefEventNotifs]

- required: [afEventNotifs]

- required: [dataReports]

- required: [fetchInstruct]

properties:

dataNotifCorrId:

type: string

description: Notification correlation identifier.

amfEventNotifs:

type: array

items:

$ref: 'TS29518\_Namf\_EventExposure.yaml#/components/schemas/AmfEventNotification'

minItems: 1

description: List of notifications on AMF events.

smfEventNotifs:

type: array

items:

$ref: 'TS29508\_Nsmf\_EventExposure.yaml#/components/schemas/NsmfEventExposureNotification'

minItems: 1

description: List of notifications on SMF events.

udmEventNotifs:

type: array

items:

$ref: 'TS29503\_Nudm\_EE.yaml#/components/schemas/MonitoringReport'

minItems: 1

description: List of notifications on UDM events.

nefEventNotifs:

type: array

items:

$ref: 'TS29591\_Nnef\_EventExposure.yaml#/components/schemas/NefEventExposureNotif'

minItems: 1

description: List of notifications on NEF events.

afEventNotifs:

type: array

items:

$ref: 'TS29517\_Naf\_EventExposure.yaml#/components/schemas/AfEventExposureNotif'

minItems: 1

description: List of notifications on AF events.

dataReports:

type: array

items:

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

minItems: 1

description: List of reports with summarized data from multiple notifications received from data producer.

fetchInstruct:

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

#

FormattingInstruction:

description: Contains data or analytics formatting instructions.

type: object

properties:

consTrigNotif:

type: boolean

description: >

Indicates that notifications shall be buffered until the NF service consumer requests

their delivery.

reportingOptions:

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

#

ReportingOptions:

description: Represents reporting options for processed notifications.

type: object

oneOf:

- required: [notifyWindow]

- required: [notifyPeriod]

- required: [notifyPeriodInc]

- required: [depEventSubId]

properties:

notifyWindow:

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

notifyPeriod:

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

notifyPeriodInc:

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

depEventSubId:

type: string

description: >

Notifications for the present subscription are sent only upon occurrence of events of the

subscription with identifier that matches this attribute.

#

ProcessingInstruction:

description: Contains instructions related to the processing of notifications.

type: object

required:

- eventId

- procInterval

properties:

eventId:

type: string

description: >

Identifies the (event exposure or analytics) event that the processing instructions shall

apply to.

procInterval:

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

paramProcInstructs:

type: array

items:

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

minItems: 1

description: >

List of event parameter names, and for each event parameter name, respective event

parameter values and sets of the attributes to be used in the summarized reports.

#

ParameterProcessingInstruction:

description: >

Contains an event parameter name and the respective event parameter values and sets of

attributes to be used in summarized reports.

type: object

required:

- name

- values

- sumAttrs

properties:

name:

type: string

description: >

A JSON pointer value that references an attribute within the notification object to which

the processing instruction is applied.

values:

type: array

items: {}

minItems: 1

description: A list of values for the attribute identified by the name attribute.

sumAttrs:

type: array

items:

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

minItems: 1

description: Attributes requested to be used in the summarized reports.

#

NotifSummaryReport:

description: Represents summarized notifications based on processing instructions.

type: object

required:

- eventId

- procInterval

- eventReports

properties:

eventId:

type: string

description: >

Identifies the (event exposure or analytics) event that this report applies to.

procInterval:

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

eventReports:

type: array

items:

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

minItems: 1

description: List of event parameter reports.

#

EventParamReport:

description: Represents a summarized report for one event parameter.

type: object

required:

- name

- values

properties:

name:

type: string

description: The name of the reported parameter.

values:

type: array

items:

type: string

minItems: 1

description: The list of values of the reported parameter.

spacing:

$ref: 'TS29520\_Nnwdaf\_EventsSubscription.yaml#/components/schemas/NumberAverage'

duration:

$ref: 'TS29520\_Nnwdaf\_EventsSubscription.yaml#/components/schemas/NumberAverage'

avgAndVar:

$ref: 'TS29520\_Nnwdaf\_EventsSubscription.yaml#/components/schemas/NumberAverage'

count:

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

minValue:

type: string

description: The minimum value of the parameter.

maxValue:

type: string

description: The maximum value of the parameter.

#

FetchInstruction:

description: Contains instructions for fetching notifications.

type: object

required:

- fetchAddress

properties:

fetchAddress:

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

description: Address from which the data can be fetched.

#

SummarizationAttribute:

anyOf:

- type: string

enum:

- SPACING

- DURATION

- OCCURRENCES

- AVG\_VAR

- MIN\_MAX

- type: string

description: |

Possible values are:

- SPACING: Average and variance of the time interval separating two consecutive occurrences of the same event and parameter value, or periodicity for periodic reporting.

- DURATION: Average and variance of the time for which the parameter value applies.

- OCCURRENCES: Number of countable occurrences for the parameter.

- AVG\_VAR: Average and variance of the parameter.

- MIN\_MAX: Maximum and minimum parameter values.

#

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

## A.3 Ndccf\_ContextManagement API

openapi: 3.0.0

info:

version: 1.0.0

title: Ndccf\_ContextManagement

description: |

DCCF Context Management Service.

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externalDocs:

description: 3GPP TS 29.574 V17.1.0; 5G System; Data Collection Coordination Services; Stage 3.

url: 'https://www.3gpp.org/ftp/Specs/archive/29\_series/29.574/'

#

servers:

- url: '{apiRoot}/ndccf-contextmanagement/v1'

variables:

apiRoot:

default: https://example.com

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

#

security:

- oAuth2ClientCredentials:

- ndccf-contextmanagement

- {}

#

paths:

/data-collection-profiles:

post:

summary: Creates a new Individual DCCF Data Collection Profile resource.

operationId: CreateDCCFDataCollectionProfile

tags:

- DCCF Data Collection Profiles (Collection)

requestBody:

content:

application/json:

schema:

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

required: true

responses:

'201':

description: Create a new Individual DCCF Data Collection Profile resource.

headers:

Location:

description: >

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

{apiRoot}/ndccf-contextmanagement/v1/data-collection-profiles/{profileId}'

required: true

schema:

type: string

content:

application/json:

schema:

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

'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'

'503':

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

default:

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

/data-collection-profiles/{profileId}:

delete:

summary: Delete an existing Individual DCCF Data Subscription

operationId: DeleteDCCFDataCollectionProfile

tags:

- Individual DCCF Data Collection Profile (Document)

parameters:

- name: profileId

in: path

description: >

String identifying a data collection profile at the Ndccf\_ContextManagement Service

required: true

schema:

type: string

responses:

'204':

description: >

No Content. The Individual DCCF Data Collection Profile resource matching the profileId

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'

'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'

'503':

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

default:

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

put:

summary: Update an existing Individual DCCF Data Collection Profile

operationId: UpdateDCCFDataCollectionProfile

tags:

- Individual DCCF Data Collection Profile (Document)

requestBody:

required: true

content:

application/json:

schema:

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

parameters:

- name: profileId

in: path

description: >

String identifying a data collection profile at the Ndccf\_ContextManagement Service

required: true

schema:

type: string

responses:

'200':

description: >

The Individual DCCF Data Collection Profile resource was modified successfully and a

representation of that resource is returned.

content:

application/json:

schema:

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

'204':

description: >

The Individual DCCF Data Collection Profile 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'

'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:

ndccf-contextmanagement: Access to the ndccf-contextmanagement API

#

schemas:

NdccfDataCollectionProfile:

description: Represents an Individual DCCF Data Collection Profile.

type: object

allOf:

- oneOf:

- required: [anaSub]

- required: [amfDataSub]

- required: [smfDataSub]

- required: [udmDataSub]

- required: [nefDataSub]

- required: [afDataSub]

- oneOf:

- required: [nwdafId]

- required: [adrfId]

- required: [nwdafSetId]

- required: [adrfSetId]

properties:

anaSub:

$ref: 'TS29520\_Nnwdaf\_EventsSubscription.yaml#/components/schemas/NnwdafEventsSubscription'

amfDataSub:

$ref: 'TS29518\_Namf\_EventExposure.yaml#/components/schemas/AmfEventSubscription'

smfDataSub:

$ref: 'TS29508\_Nsmf\_EventExposure.yaml#/components/schemas/NsmfEventExposure'

udmDataSub:

$ref: 'TS29503\_Nudm\_EE.yaml#/components/schemas/EeSubscription'

afDataSub:

$ref: 'TS29517\_Naf\_EventExposure.yaml#/components/schemas/AfEventExposureSubsc'

nefDataSub:

$ref: 'TS29591\_Nnef\_EventExposure.yaml#/components/schemas/NefEventExposureSubsc'

nwdafId:

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

nwdafSetId:

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

adrfId:

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

adrfSetId:

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

#

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