**3GPP TSG-CT WG3 Meeting #134 *C3-242178r2***

**Changsha, China, 15-19 April 2024**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.520** | **CR** | **0884** | **rev** | **1** | **Current version:** | **18.5.0** |  |
|  | | | | | | | | |
| *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:*** | alignment of MLModelMonitorNotify | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | ZTE | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eNA\_Ph3 | | | | |  | ***Date:*** | | | 2024-04-08 |
|  |  | | | |  | |  | | |  |
| ***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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | There are misalgnements of MLModelMonitorNotify between the mainbody and openAPI file:   * immReports attribute is of single MLModelMonitorNotify data type, however in the openAPI file, the array of MLModelMonitorNotify is defined. * In the procedure description and the resource definition, Nnwdaf\_MLModelMonitor\_Notify request includes a single MLModelMonitorNotify data type, however in the openAPI file, the array of MLModelMonitorNotify is defined. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Align the openAPI file with mainbody to change array of MLModelMonitorNotify to single. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Misalgnement of MLModelMonitorNotify between the mainbody and openAPI file. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.7.2.4.2, 4.7.2.4.3, 5.6.6.2.3, A.7 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 to the OpenAPI file of the Nnwdaf\_MLModelMonitor API. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

**Additional discussion(if needed):**

**Proposed changes:**

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

##### 4.7.2.4.2 Subscription for monitoring notifications

Figure 4.7.2.4.2-1 shows a scenario where the NF service consumer sends a request to the NWDAF containing AnLF to subscribe for event notification(s) and analytics feedback information.

Figure 4.7.2.4.2-1: NF service consumer subscribes to notifications

The NF service consumer shall invoke the Nnwdaf\_MLModelMonitor\_Subscribe service operation to subscribe to event notification(s). The NF service consumer shall send an HTTP POST request with "{apiRoot}/nnwdaf-mlmodelmonitor/<apiVersion>/subscriptions" as Resource URI representing the "NWDAF ML model monitoring Subscriptions", as shown in figure 4.7.2.4.2-1, step 1, to create a subscription for an "Individual NWDAF ML model monitoring Subscription" according to the information in message body. The MLModelMonitorSub data structure provided in the request body shall include:

- the ML model IDs within "modelIds" attribute;

- the notification URI within "notificationUri" attribute;

- the notification correlation identifier within "notifCorrId" attribute;

and may include:

- the ML model metrics within "modelMetric" attribute;

- the accuracy reporting threshold within "accuThreshold" attribute;

- the reporting requirements of the event subscription within "eventReportReq" attribute

- the ML model metrics within "modelMetric" attribute;

Upon the reception of an HTTP POST request with "{apiRoot}/nnwdaf-mlmodelmonitor/<apiVersion>/subscriptions" as Resource URI and MLModelMonitorSub data structure as request body, the NWDAF containing AnLF shall:

- create a new new subscription;

- assign a subscriptionId;

- store the subscription.

If the NWDAF created an "Individual NWDAF ML model monitoring Subscription" resource, the NWDAF shall respond with "201 Created" with the message body containing a representation of the created subscription, as shown in figure 4.7.2.4.2-1, step 2. The NWDAF shall include a Location HTTP header field. The Location header field shall contain the URI of the created profile, i.e. "{apiRoot}/nnwdaf-mlmodelmonitor/<apiVersion>/subscriptions/{subscriptionId}".

If the immediate reporting indication in the "immRep" attribute within the "eventReportReq" attribute sets to true in the event subscription, the NWDAF shall include the reports of the events subscribed within "immReport" attribute, if available, in the HTTP POST response.

If an error occurs when processing the HTTP POST request, the NWDAF shall send an HTTP error response as specified in clause 5.6.7.

\*\*\* 2nd Change \*\*\*

##### 4.7.2.4.3 Update of subscription for monitoring notifications

Figure 4.7.2.4.3-1 shows a scenario where the NF service consumer (i.e. NWDAF containing MTLF) sends a request to the NWDAF containing AnLF to update a subscription for event notification(s).



Figure 4.7.2.4.3-1: NF service consumer updates subscription to notifications

The NF service consumer shall invoke the Nnwdaf\_MLModelMonitor\_Subscribe service operation to update a subscription to event notification(s) by sending an HTTP PUT request with "{apiRoot}/nnwdaf-mlmodelmonitor/<apiVersion>/subscriptions/{subscriptionId}" as Resource URI representing the "Individual NWDAF ML model monitoring subscription", as shown in figure 4.7.2.4.3-1, step 1, to update this "Individual NWDAF ML model monitoring subscription" according to the information in message body. The MLModelMonitorSub data structure provided in the request body shall include the same contents as in clause 4.7.2.4.2.

Upon the reception of an HTTP PUT request with "{apiRoot}/nnwdaf-mlmodelmonitor/<apiVersion>/subscriptions{subscriptionId}" as Resource URI and MLModelMonitorSub data structure as request body, the NWDAF shall:

- update the subscription of corresponding subscriptionId; and

- store the subscription.

If the NWDAF succesfully update the "Individual NWDAF ML model monitoring Subscription" resource, the NWDAF shall respond with "200 OK" with the message body containing a representation of the created subscription, as shown in figure 4.7.2.4.3-1, step 2a, or with "204 No Content" as shown in figure 4.7.2.4.3-1, step 2b.

If the immediate reporting indication in the "immRep" attribute within the "eventReportReq" attribute sets to true in the request, the NWDAF shall include the reports of the events subscribed within "immReport" attribute, if available, in the HTTP PUT response.

If an error occurs when processing the HTTP PUT request, the NWDAF shall send an HTTP error response as specified in clause 5.6.7.

\*\*\* 3rd Change \*\*\*

##### 5.6.6.2.3 Type MLModelMonitorSub

Table 5.6.6.2.3-1: Definition of type MLModelMonitorSub

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | Data type | P | Cardinality | Description | Applicability |
| modelIds | array(Uinteger) | M | 1..N | The ML model IDs. |  |
| notificationUri | Uri | M | 1 | Notification target address. |  |
| notifCorrId | string | M | 1 | Notification correlation identifier. |  |
| modelMetric | MLModelMetric | O | 0..1 | The ML model metrics to calculate the accuracy information. |  |
| accuThreshold | Uinteger | O | 0..1 | Accuracy reporting threshold. Indicates the threshold upon the crossing of which (in either ascending or descending direction) the accuracy information needs to be reported. |  |
| eventReportReq | ReportingInformation | O | 0..1 | Represents the reporting requirements of the event subscription.  If omitted, the default values within the ReportingInformation data type apply. |  |
| immReport | MLModelMonitorNotify | O | 0..1 | Immediately reported ML model Monitoring notifications. It may only be provided in the HTTP POST response of a subscription creation/update and only if the immediate reporting flag was set to "true" in the HTTP POST request. |  |
| suppFeat | SupportedFeatures | C | 0..1 | List of Supported features used as described in clause 5.1.8.  It shall be present in the POST request if at least one feature defined in clause 5.1.8 is supported, and it shall be present in the POST response if the NF service consumer included the"suppFeat" attribute in the POST request. |  |

\*\*\* 4th Change \*\*\*

# A.7 Nnwdaf\_MLModelMonitor API

openapi: 3.0.0

info:

title: Nnwdaf\_MLModelMonitor

version: 1.0.0-alpha.2

description: |

Nnwdaf\_MLModelMonitor API Service.

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externalDocs:

description: 3GPP TS 29.520 V18.5.0; 5G System; Network Data Analytics Services.

url: https://www.3gpp.org/ftp/Specs/archive/29\_series/29.520/

servers:

- url: '{apiRoot}/nnwdaf-mlmodelmonitor/v1'

variables:

apiRoot:

default: https://example.com

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

security:

- {}

- oAuth2ClientCredentials:

- nnwdaf-mlmodelmonitor

paths:

/registrations:

post:

summary: Create a new Individual NWDAF ML Model monitoring registration resource.

operationId: CreateNWDAFMLModelMonitoringRegistration

tags:

- registrations (Collection)

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'201':

description: Create a new Individual NWDAF ML Model monitoring registration resource.

content:

application/json:

schema:

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

headers:

Location:

description: >

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

{apiRoot}/nnwdaf-mlmodelmonitor/<apiVersion>/registrations/{registrationId}.

required: true

schema:

type: string

'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'

/registrations/{registrationId}:

delete:

summary: Delete an existing Individual NWDAF ML model monitoring registration.

operationId: DeleteNWDAFMLModelMonitoringRegistration

tags:

- Individual NWDAF ML model monitoring registration (Document)

parameters:

- name: registrationId

in: path

description: String identifying a registration to the Nnwdaf\_MLModelMonitor Service.

required: true

schema:

type: string

responses:

'204':

description: >

No Content. The Individual NWDAF ML Model monitoring registration matching the

registrationId 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'

/subscriptions:

post:

summary: Create a new Individual NWDAF ML model monitoring Subscription.

operationId: CreateNWDAFMLModelMonitoringSubscription

tags:

- NWDAF ML model monitoring Subscriptions (Collection)

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'201':

description: Create a new Individual NWDAF ML model monitoring Subscription resource.

headers:

Location:

description: >

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

{apiRoot}/nnwdaf-mlmodelmonitor/<apiVersion>/subscriptions/{subscriptionId}

required: true

schema:

type: string

content:

application/json:

schema:

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

'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'

callbacks:

myNotification:

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

post:

requestBody:

required: true

content:

application/json:

schema:

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

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'

'502':

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

'503':

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

default:

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

/subscriptions/{subscriptionId}:

put:

summary: Update an existing Individual NWDAF ML model monitoring Subscription resource.

operationId: UpdateNWDAFMLModelMonitoringSubscription

tags:

- Individual NWDAF ML model monitoring Subscription resource (Document)

requestBody:

required: true

content:

application/json:

schema:

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

parameters:

- name: subscriptionId

in: path

description: String identifying a subscription to the Nnwdaf\_MLModelMonitor Service.

required: true

schema:

type: string

responses:

'200':

description: >

The Individual NWDAF ML model monitoring Subscription resource was modified successfully

and a representation of that resource is returned.

content:

application/json:

schema:

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

'204':

description: >

The Individual NWDAF ML model monitoring 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'

'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: Delete an existing Individual NWDAF ML model monitoring Subscription.

operationId: DeleteNWDAFMLModelMonitoringSubscription

tags:

- Individual NWDAF ML model monitoring Subscription (Document)

parameters:

- name: subscriptionId

in: path

description: String identifying a subscription to the Nnwdaf\_MLModelMonitor Service

required: true

schema:

type: string

responses:

'204':

description: >

No Content. The Individual NWDAF ML model monitoring 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'

'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'

components:

securitySchemes:

oAuth2ClientCredentials:

type: oauth2

flows:

clientCredentials:

tokenUrl: '{nrfApiRoot}/oauth2/token'

scopes:

nnwdaf-mlmodelmonitor: Access to the Nnwdaf\_MLModelMonitor API

schemas:

MLModelMonitorReg:

description: Represents a ML Model monitoring registration.

type: object

properties:

consumerId:

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

consumerSetId:

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

modelId:

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

modelAccuInd:

type: boolean

description: >

Indicates the ML Model accuracy transfer indication. Set to "true" to indicate that the

monitoring of the accuracy of the ML model is supported, otherwise set to "false".

Default value is "false" if omitted.

suppFeat:

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

required:

- modelId

oneOf:

- required: [consumerId]

- required: [consumerSetId]

MLModelMonitorSub:

description: >

Represents parameters to request the modification of a ML Model monitoring registration.

type: object

properties:

modelIds:

type: array

items:

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

minItems: 1

description: Represents the ML Model IDs.

notificationUri:

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

notifCorrId:

type: string

description: Notification correlation identifier.

modelMetric:

$ref: 'TS29520\_Nnwdaf\_MLModelProvision.yaml#/components/schemas/MLModelMetric'

accuThreshold:

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

eventReportReq:

$ref: 'TS29523\_Npcf\_EventExposure.yaml#/components/schemas/ReportingInformation'

immReport:

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

suppFeat:

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

required:

- modelIds

- notificationUri

- notifCorrId

MLModelMonitorNotify:

description: Represents notifications on events that occurred.

type: object

properties:

notifCorrId:

type: string

description: Notification correlation identifier.

modelAccuInfos:

type: array

items:

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

minItems: 1

description: The accuracy related information of the ML model.

anaFeedbacks:

type: array

items:

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

minItems: 1

description: The analytics feedback information.

accuMeetInd:

type: boolean

description: >

Set to "true" to indicate that the analytics accuracy of the ML model meet the

requirement of accuracy for the ML model. Otherwise, default value is "false" if

omitted.

required:

- notifCorrId

anyOf:

- required: [modelAccuInfos]

- required: [anaFeedbacks]

MLModelAccuracyInfo:

description: Represents the ML Model accuracy information.

type: object

properties:

modelId:

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

deviation:

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

inferenceNum:

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

adrfId:

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

adrfSetId:

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

dataSetTag:

$ref: 'TS29575\_Nadrf\_DataManagement.yaml#/components/schemas/DataSetTag'

modelMetric:

$ref: 'TS29520\_Nnwdaf\_MLModelProvision.yaml#/components/schemas/MLModelMetric'

mlModelAcc:

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

monitorInterval:

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

required:

- modelId

AnalyticsFeedback:

description: Represents the analytics feedback.

type: object

properties:

events:

type: array

items:

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

minItems: 1

description: Indicates the Analytics IDs that were used to take this action.

modelIds:

type: array

items:

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

minItems: 1

description: Indicates the ML Model identifier that were used to take this action.

groundDataImpactInd:

type: boolean

description: >

Indication whether the action will affect on ground truth data. Set to "true" to

indicate that the action will affect on ground truth data. Otherwise set to "false",

default value is "false" if omitted.

timeStamp:

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

required:

- events

- modelIds

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