**3GPP TSG-CT3 Meeting #142 *C3-253562***

**Stor-Göteborg, Sweden, 25th Aug 2025 - 29th Aug 2025 (revision of *C3-253195*)**

**Source: Nokia**

**Title: Pseudo-CR on OpenAPI annexes of AIMLES\_AssistedMLModelSelection API**

**Spec: 3GPP TS 29.482 v 1.0.0**

**Agenda item: 19.41**

**Document for: Agreement**

**1. Introduction**

There is a need to start OpenAPI annexes of AIMLES\_AssistedMLModelSelection API under the AIML\_App WI.

**2. Reason for Change**

Define the OpenAPI annexes of AIMLES\_AssistedMLModelSelection API as defined in clause 8.23 in 3GPP TS 23.482.

**3. Conclusions**

This pCR proposes to specify the Annex of AIMLES\_AssistedMLModelSelection API.

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS 29.482 V 1.0.0.

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

# A.X AIMLES\_AssistedMLModelSelection API

openapi: 3.0.0

info:

 title: AIMLES\_AssistedMLModelSelection

 description: |

 API for AIMLE Assisted ML Model Selection Service.

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 version: "1.0.0-alpha.1"

externalDocs:

 description: >

 3GPP TS 29.482 v1.0.0; Artificial Intelligence Machine Learning Enablement

 (AIMLE) Services; Stage 3.

 url: https://www.3gpp.org/ftp/Specs/archive/29\_series/29.549/

servers:

 - url: '{apiRoot}/aimles-amlmsel/v1'

 variables:

 apiRoot:

 default: https://example.com

 description: apiRoot as defined in clause 5.2.4 of 3GPP TS 29.122

security:

 - {}

 - oAuth2ClientCredentials: []

paths:

 /subscriptions:

 post:

 summary: Request the creation of a AIMLE Assisted ML Model Selection Subscription resource.

 operationId: CreateAimleAssistMLMdlSelSubscription

 tags:

 - AIMLE Assisted ML Model Selection Subscriptions (Collection)

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '201':

 description: >

 Successful case. The creation of an Individual AIMLE Assisted ML Model Selection

 Subscription resource is confirmed and a representation of that resource is returned in

 the response body.

 content:

 application/json:

 schema:

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

 headers:

 Location:

 description: Contains the URI of the newly created resource.

 required: true

 schema:

 type: string

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 callbacks:

 myNotification:

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

 post:

 summary: notify a previously subscribed service consumer on AIML Assisted ML Model Selection related event(s).

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '204':

 description: The notification is successfully received.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 /subscriptions/{subscriptionId}:

 parameters:

 - name: subscriptionId

 in: path

 description: >

 Represents the identifier of an Individual AIMLE Assisted ML Model Selection Subscription

 resource.

 required: true

 schema:

 type: string

 get:

 summary: Retrieve an existing Individual AIMLE Assisted ML Model Selection Subscription resource.

 operationId: GetAimleAssistMLMdlSelSubscription

 tags:

 - Individual AIMLE Assisted ML Model Selection Subscription (Document)

 responses:

 '200':

 description: >

 Successful case. The requested Individual AIMLE Assisted ML Model Selection

 Subscription resource shall be returned.

 content:

 application/json:

 schema:

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

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '406':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/406'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 put:

 summary: Request the update of an existing Individual AIMLE Assisted ML Model Selection Subscription resource.

 operationId: UpdateAimleAssistMLMdlSelSubscription

 tags:

 - Individual AIMLE Assisted ML Model Selection Subscription (Document)

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '200':

 description: >

 Successful case. The Individual AIMLE Assisted ML Model Selection Subscription resource

 is successfully updated and a representation of the updated resource shall be returned

 in the response body.

 content:

 application/json:

 schema:

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

 '204':

 description: >

 No Content. The Individual AIMLE Assisted ML Model Selection Subscription resource is

 successfully updated and no content is returned in the response body.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 patch:

 summary: Request the modification of an existing Individual AIMLE Assisted ML Model Selection Subscription resource.

 operationId: ModifyAimleAssistMLMdlSelSubscription

 tags:

 - Individual AIMLE Assisted ML Model Selection Subscription (Document)

 requestBody:

 required: true

 content:

 application/merge-patch+json:

 schema:

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

 responses:

 '200':

 description: >

 Successful case. The Individual AIMLE Assisted ML Model Selection Subscription resource

 is successfully modified and a representation of the updated resource shall be returned

 in the response body.

 content:

 application/json:

 schema:

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

 '204':

 description: >

 No Content. The Individual AIMLE Assisted ML Model Selection Subscription resource is

 successfully modified and no content is returned in the response body.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 delete:

 summary: Request the deletion of an existing Individual AIMLE Assisted ML Model Selection Subscription resource.

 operationId: UnsubscribeAimleAssistMLMdlSelSubscription

 tags:

 - Individual AIMLE Assisted ML Model Selection Subscription (Document).

 responses:

 '204':

 description: >

 No Content. The Individual AIMLE Assisted ML Model Selection Subscription resource is

 successfully deleted.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

components:

 securitySchemes:

 oAuth2ClientCredentials:

 type: oauth2

 flows:

 clientCredentials:

 tokenUrl: '{tokenUrl}'

 scopes: {}

 schemas:

 AssistMLMdlSelSubsc:

 description: Represents the AIMLE Assisted ML Model Selection subscription information.

 type: object

 properties:

 aimlProfile:

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

 notifUri:

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

 repInfo:

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

 suppFeat:

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

 required:

 - aimlProfile

 AssistMLMdlSelNotif:

 description: Represents the AIMLE Assisted ML Selection notification.

 type: object

 properties:

 opStatus:

 $ref: 'TS29482\_AIMLES\_DataManagement.yaml#/components/schemas/DataMgmtOp'

 trainMLModel:

 $ref: 'TS29482\_MLR\_MLModelManagement.yaml#/components/schemas/MLModelTrainingInfo'

 elapseTime:

 type: integer

 timestamp:

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

 required:

 - opStatus

 - trainMLModel

 AimlProfile:

 description: Represents the ML model selection operation.

 type: object

 properties:

 candMLMdls:

 type: array

 items:

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

 minItems: 1

 mlMdlReq:

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

 dataSetIds:

 type: array

 items:

 type: string

 minItems: 1

 trainReq:

 type: array

 items:

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

 minItems: 1

 clientList:

 type: array

 items:

 $ref: 'TS29482\_AIMLES\_DataManagement.yaml#/components/schemas/AimleClientId'

 minItems: 1

 clNumber:

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

 TrainingRequirement:

 description: Represents the training requirements for ML model selection.

 type: object

 properties:

 perfReq:

 type: array

 items:

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

 minItems: 1

 trainCount:

 type: integer

 sampleCount:

 type: integer

 PerformanceRequirement:

 description: Represents the performance requirements for ML model selection.

 type: object

 properties:

 perfMetric:

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

 perfTarget:

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

 AssistMLMdlSelSubscPatch:

 description: >

 Represents the requested modifications to a AIMLE Assisted ML Selection subscription

 information.

 type: object

 properties:

 trainReq:

 type: array

 items:

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

 minItems: 1

 notifUri:

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

 ReportingInformation:

 description: Represents the reporting requirements for ML model selection.

 type: object

 properties:

 immRep:

 type: boolean

 notifMethod:

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

 jobPercentage:

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

 timeWindow:

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

 CandMLMdl:

 description: Contains the candidate ML model selection information.

 type: object

 properties:

 mlMdlId:

 type: string

 mlMdlParam:

 type: string

# SIMPLE DATA TYPES

#

# ENUMERATIONS

 PerformanceMetric:

 anyOf:

 - type: string

 enum:

 - ACCURACY

 - PRECISION

 - RECALL

 - MEAN\_SQUARED\_ERROR

 - MEAN\_ABSOLUTE\_ERROR

 - type: string

 description: >

 This string provides forward-compatibility with future extensions to the enumeration and

 is not used to encode content defined in the present version of this API.

 description: |

 Represents the performance metric for training the ML model.

 Possible values are:

 - ACCURACY: Indicates the performance metric is accuracy.

 - PRECISION: Indicates the performance metric is precision.

 - RECALL: Indicates the performance metric is recall.

 - MEAN\_SQUARED\_ERROR: Indicates the performance metric is mean squared error.

 - MEAN\_ABSOLUTE\_ERROR: Indicates the performance metric is mean absolute error.

 NotificationMethod:

 anyOf:

 - type: string

 enum:

 - PERIODIC

 - ON\_JOB\_COMPLETION

 - ON\_PCT\_COMPLETION

 - ON\_EVENT\_DETECTION

 - type: string

 description: >

 This string provides forward-compatibility with future extensions to the enumeration and

 is not used to encode content defined in the present version of this API.

 description: |

 Represents the notification methods that can be subscribed.

 Possible values are:

 - PERIODIC: The notification of the ML model status is periodically sent.

 - ON\_JOB\_COMPLETION: The notification is sent only after the entire ML model selection job

 is completed.

 - ON\_PCT\_COMPLETION: The notification is sent after the certain job percentage completion.

 - ON\_EVENT\_DETECTION: The notification is sent each time the event is detected.

\* \* \* Next Changes \* \* \*

# B.X AIMLES\_AssistedMLModelSelection API

The API versions listed in table B.X-1 are withdrawn for the AIMLES\_AssistedMLModelSelection API.

Table B.X-1: Withdrawn API versions of the AIMLES\_AssistedMLModelSelection service

|  |  |
| --- | --- |
| API version number | Remarks |
|  |  |

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