**3GPP TSG-CT3 Meeting #142 *C3-253xxx***

**Stor-Göteborg, Sweden, 25th Aug 2025 - 29th Aug 2025 (revision of *C3-253198*)**

**Source: Nokia, Samsung**

**Title: Pseudo-CR on OpenAPI annexes of Aimles\_SplitOpNodeRegistration 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 a OpenAPI annexes of Aimles\_SplitOpNodeRegistration API under the AIML\_App WI.

**2. Reason for Change**

Define the OpenAPI annexes of Aimles\_SplitOpNodeRegistration API as defined in clause 8.14.2.4 in 3GPP TS 23.482.

**3. Conclusions**

This pCR proposes to specify the Annex of Aimles\_SplitOpNodeRegistration 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\_SplitOpNodeRegistration API

openapi: 3.0.0

info:

title: Aimles\_SplitOpNodeRegistration

description: |

API for AIMLE Split Operation Node Register Configurations.

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version: "1.0.0-alpha.2"

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-sonreg/v1'

variables:

apiRoot:

default: https://example.com

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

security:

- {}

- oAuth2ClientCredentials: []

paths:

/configurations:

post:

summary: Request the creation of a Individual AIMLE Split Operation Node Register.

operationId: CreateAimleSplitOpNodeRegSubscription

tags:

- AIMLE Split Operation Node Register Configurations (Collection)

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'201':

description: >

The registration of the new Individual AIMLE AIMLE Split Operation Node Register is confirmed

and a representation of that resource is returned.

content:

application/json:

schema:

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

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'

/configurations/{configurationId}:

get:

summary: Retrieve an existing Individual AIMLE Split Operation Node Register resource.

operationId: GetIndAimleSplitOpNodeRegSubscription

tags:

- Individual AIMLE Split Operation Node Register Configuration (Document)

parameters:

- name: configurationId

in: path

description: Identifier of the configuration resource

required: true

schema:

type: string

responses:

'200':

description: >

OK. The requested information on the Individual Resgietered AIMLE Split

Operation Node Register is confirmed and a representation of that resource is returned.

content:

application/json:

schema:

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

'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 Split Operation Node Register resource.

operationId: UpdateIndAimleSplitOpNodeRegSubscription

tags:

- Individual AIMLE Split Operation Node Register Configuration (Document)

parameters:

- name: configurationId

in: path

description: Identifier of the configuration resource

required: true

schema:

type: string

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'200':

description: >

OK. The requested update of the Individual Registered AIMLE Split Operation

Node Register is confirmed and a representation of that resource is returned.

content:

application/json:

schema:

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

'204':

description: >

No Content. The Individual AIMLE Split Operation Node Register 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 Split Operation Node Register resource.

operationId: ModifyIndAimleSplitOpNodeRegSubscription

tags:

- Individual AIMLE Split Operation Node Register Configuration (Document)

parameters:

- name: configurationId

in: path

description: Identifier of the configuration resource

required: true

schema:

type: string

requestBody:

required: true

content:

application/merge-patch+json:

schema:

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

responses:

'200':

description: >

OK. The requested modification of the Individual Registered AIMLE Split Operation Node

Register is confirmed and a representation of that resource is returned.

content:

application/json:

schema:

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

'204':

description: >

No Content. The requested modification of the Individual Registered AIMLE Split

Operation Node Register is confirmed and no content is returned.

'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: Remove the Individual AIMLE Split Operation Node Register.

operationId: UnsubscribeAimleSplitOpNodeRegSubscription

tags:

- Individual AIMLE Split Operation Node Register Configuration (Document).

parameters:

- name: configurationId

in: path

description: Identifier of the configuration resource

required: true

schema:

type: string

responses:

'204':

description: >

Deregistration of the Individual Registered AIMLE Split Operation Node Register is

confirmed.

'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:

SplitOpNodeReg:

description: Represents the Split Operation Node Register information.

type: object

properties:

nodeInfo:

$ref: 'TS29548\_SDD\_Transmission.yaml#/components/schemas/ConnInfo'

sonRegCapability:

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

timeValidity:

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

required:

- nodeInfo

SplitOpNodeRegPatch:

description: Represents the split operation node register information to be modified.

type: object

properties:

sonregCapability:

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

timeValidity:

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

SplitOpCapabilities:

description: Represents the split operation capabilities.

type: object

properties:

modelInfo:

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

usageInfo:

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

required:

- modelInfo

ModelInformation:

description: Represents the ML model information.

type: object

properties:

modelId:

type: string

modelName:

type: string

modelVersion:

type: string

suppOperation:

type: array

items:

type: string

minItems: 1

required:

- modelId

- modelVersion

- suppOperation

UsageInformation:

description: Represents the data analysis requirement.

type: object

properties:

inputFreq:

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

inputSize:

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

outputFreq:

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

outputSize:

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

# SIMPLE DATA TYPES

#

#

# ENUMERATIONS

#

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

# B.X Aimles\_SplitOpNodeRegistration 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\_SplitOpNodeRegistration service

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

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