**3GPP TSG-CT3 Meeting #142 C3-253559**

**Goteburg, SE, 25– 29 August 2025**

**Source: Lenovo**

**Title: TL enablement service**

**Spec:** **3GPP TS 29.482V1.0.0**

**Agenda item:** **19.41**

**Document for: Approval**

**1. Introduction**

<Introduction part (optional)>

**2. Reason for Change**

Stage 2 text exists for this feature in TS 23.482 and therefore stage 3 is needed.

**3. Conclusions**

<Conclusion part (optional)>

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS 29.482V1.0.0.

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

## 3.3 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in 3GPP TR 21.905 [1].

AIMLE Artificial Intelligence Machine Learning Enablement

FL Federated Learning

MLR Machine Learning Repository

TL Transfer Learning

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

## 5.1 Introduction

Table 5.1-1 summarizes the corresponding APIs defined for this specification.

Table 5.1-1: API Descriptions

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Service Name | Clause | Description | OpenAPI Specification File | API Name | Annex |
| AIMLES\_ContextTransfer | 6.1.1 | AIMLE Context Transfer Information Service | TS29482\_AIMLES\_ContextTransfer.yaml | aimles-ct | A.2 |
| AIMLES\_DataManagement | 6.1.2 | AIMLE Data Management assistance Service | TS29482\_AIMLES\_DataManagement.yaml | aimles-dm | A.3 |
| AIMLES\_FLMemberGroupSupport | 6.1.3 | FL Member Grouping Service | TS29482\_AIMLES\_FLMemberGroupSupport.yaml | aimles-fl | A.X |
| AIMLES\_AIMLEServiceOperationsManagement | 6.1.4 | AIMLE Operation Management service | TS29482\_AIMLES\_AIMLEServiceOperationsManagement API.yaml | aimles-opm | A.X |
| AIMLES\_HierarchicalComputingAssist | 6.1.5 | AIMLE Hierarchical Computing Assist service | TS29482\_AIMLES\_HierarchicalComputingAssist.yaml | aimles-hca | A.X |
| AIMLES\_AIMLEClientDiscovery | 6.1.6 | AIMLE Client discovery service | TS29482\_AIMLES\_AIMLEClientDiscovery.yaml | aimles-disc | A.5 |
| AIMLES\_AIMLEClientSelection | 6.1.7 | AIMLE Client Selection service | TS29482\_AIMLES\_AIMLEClientSelection.yaml | aimles-sel | A.X |
| MLR\_MLModelManagement | 5.3.1 | MLR Model Management Service API | TS29482\_MLR\_MLModelManagement.yaml | mlr-mlmm | A.4 |
| MLR\_ModelInformationDiscovery | 6.2.2 | MLR Model Information Discovery service | TS29482\_MLR\_ModelInformationDiscovery.yaml | mlr-mid | A.6 |
| AIMLES\_TLModelSelectionAssistance | 5.2.X | TL enablement service | TS29482\_AIMLES\_TLModelSelectionAssistance.yaml | aimles-tlmsa | A.X |

NOTE: When 3GPP TS 29.122 [2] is referenced for the common protocol and interface aspects for API definition in the clauses under clause 5, the service producer (i.e. AIMLE Server or ML Repository) takes the role of the SCEF and the service consumer takes the role of the SCS/AS.

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

### 5.2.X AIMLES\_TLModelSelectionAssistance Service

#### 5.2.X.1 Service Description

The AIMLES\_TLModelSelectionAssistance Service, exposed by the AIMLE Server, enables a service consumer to:

- request AIMLE Server to provide pre-trained ML models for a target ML task by using filter criteria.

#### 5.2.X.2 Service Operations

##### 5.2.X.2.1 Introduction

The service operations defined for the AIMLES\_TLModelSelectionAssistance API are shown in the table 5.2.X.2.1-1.

Table 5.2.X.2.1-1: Service operations of the AIMLES\_TLModelSelectionAssistance API

|  |  |  |
| --- | --- | --- |
| Service Operation Name | Description | Initiated by |
| AIMLES\_TLModelSelectionAssistance\_Request | This service operation enables a service consumer to perform an ML model training by using pre-trained models. | e.g., VAL Server |

##### 5.2.X.2.2 AIMLES\_TLModelSelectionAssistance\_Request

5.2.X.2.2.1 General

This service operation is used by a service consumer to perform AIMLE TL Model Selection Assistance Request at the AIMLE Server.

The following procedures are supported by the "AIMLES\_TLModelSelectionAssistance\_Request" service operation:

- AIMLE TL Model Selection Assistance Request.

5.2.X.2.2.2 AIMLE TL Model Selection Assistance Request

Figure 5.2.X.2.2.2-1 depicts a scenario where a service consumer sends a request to the AIMLE Server to request AIMLE TL Model Selection Assistance (see also clause 8.16 of 3GPP°TS°23.482°[13]).



Figure 5.2.X.2.2.2-1: Procedure for AIMLE TL Model Selection Assistance Request

1. In order to request to AIMLE ML model selection assistance, the service consumer shall send an HTTP GET request to the AIMLE Server targeting the URI of the "AIMLE TL Model Selection Assistance" resource.

2a. Upon success, the AIMLE Server shall respond with an HTTP "200 OK" status code with the response body containing the TlModelSelectAssistResp data structure.

2b. On failure, the appropriate HTTP status code indicating the error shall be returned and appropriate additional error information should be returned in the HTTP GET response body, as specified in clause 6.1.X.7.

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