**3GPP TSG SA WG5 Meeting #156 S5-244591d1**

**Maastricht, The Netherlands 19 - 23 August 2024**

**Source: NEC, Intel**

**Title: DP TR 28.858 add clause structure**

**Document for: Approval**

**Agenda Item: 6.19.1**

1 Decision/action requested

***the group is asked to discuss and endorse the proposal***

2 References

[1] [SP-240965](https://www.3gpp.org/ftp/TSG_SA/TSG_SA/TSGS_104_Shanghai_2024-06/Docs/SP-240965.zip); Revised SID on Study on AI/ML management - phase 2

[2] 3GPP TR 28.858; Study on AI/ML management – Phase 2

3 Rationale

Despite the study on Artificial Intelligence / Machine Learning (AI/ML) management phase 2 [1] having been active for the past two meetings, the TR number was only recently assigned at SA#104 [2]. This contribution proposes the clause structure for the draft TR 28.858.

The proposed clause structure aims to mirror the structure of the Rel-18 TR 28.908 and the target specification TS 28.105. Aligning the structure in this manner offers several benefits, including, e.g., facilitating contributions to the current TR and the CRs development implementation process for the normative phase, ensuring a smoother transition from TR to specification phase.

The proposed clause structure shall be adopted by future contribution to to TR 28.858.

4 Detailed proposal

Endorse the attached TR 28.858 clause structure.

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| 3GPP TR 28.858 V0.0.0 (2024-08) |
| Technical Report |
| 3rd Generation Partnership Project;Technical Specification Group Services and System Aspects;Study on Artificial Intelligence / Machine Learning (AI/ML) management Phase 2(Release 19) |
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# Foreword

This Technical Report has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

x the first digit:

1 presented to TSG for information;

2 presented to TSG for approval;

3 or greater indicates TSG approved document under change control.

y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.

z the third digit is incremented when editorial only changes have been incorporated in the document.

In the present document, modal verbs have the following meanings:

**shall** indicates a mandatory requirement to do something

**shall not** indicates an interdiction (prohibition) to do something

The constructions "shall" and "shall not" are confined to the context of normative provisions, and do not appear in Technical Reports.

The constructions "must" and "must not" are not used as substitutes for "shall" and "shall not". Their use is avoided insofar as possible, and they are not used in a normative context except in a direct citation from an external, referenced, non-3GPP document, or so as to maintain continuity of style when extending or modifying the provisions of such a referenced document.

**should** indicates a recommendation to do something

**should not** indicates a recommendation not to do something

**may** indicates permission to do something

**need not** indicates permission not to do something

The construction "may not" is ambiguous and is not used in normative elements. The unambiguous constructions "might not" or "shall not" are used instead, depending upon the meaning intended.

**can** indicates that something is possible

**cannot** indicates that something is impossible

The constructions "can" and "cannot" are not substitutes for "may" and "need not".

**will** indicates that something is certain or expected to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document

**will not** indicates that something is certain or expected not to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document

**might** indicates a likelihood that something will happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

**might not** indicates a likelihood that something will not happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

In addition:

**is** (or any other verb in the indicative mood) indicates a statement of fact

**is not** (or any other negative verb in the indicative mood) indicates a statement of fact

The constructions "is" and "is not" do not indicate requirements.

# Introduction

# 1 Scope

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

# 3 Definitions of terms, symbols and abbreviations

## 3.1 Terms

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

## 3.2 Symbols

For the purposes of the present document, the following symbols apply:

<symbol> <Explanation>

## 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].

<ABBREVIATION> <Expansion>

# 4 Concepts and overview

## 4.1 Overview

# 5 Management capabilities for the AI/ML lifecycle

# 5.1 ML model training

### 5.1.x ML model training capability x

#### 5.1.x.1 Description

#### 5.1.x.2 Use cases

##### 5.1.x.2.1 Use case 1

##### 5.1.x.2.2 Use case 2

##### 5.1.x.2.z Use case z

#### 5.1.x.3 Potential requirements

#### 5.1.x.4 Possible solutions

##### 5.1.x.4.1 Evaluation

### 5.1.y ML model training capability y

#### 5.1.y.1 Description

#### 5.1.y.2 Use cases

##### 5.1.y.2.1 Use case 1

##### 5.1.y.2.2 Use case 2

##### 5.1.y.2.z Use case z

#### 5.1.y.3 Potential requirements

#### 5.1.y.4 Possible solutions

##### 5.1.y.4.1 Evaluation

Editor’s note: similar sub clause structure shall be adopted for the content under the clauses 5.2, 5.3, 5.4 and 5.5.

## 5.2 ML model testing

## 5.3 AI/ML inference emulation

## 5.4 ML model deployment

## 5.5 AI/ML inference

# 6 Conclusions and recommendations

Annex <A>:
Change history

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| **Change history** |
| **Date** | **Meeting** | **TDoc** | **CR** | **Rev** | **Cat** | **Subject/Comment** | **New version** |
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