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• Orchestration functional requirements specification for large network OAM models ENI

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# Foreword

This Group Specification (GS) has been produced by ETSI Industry Specification Group Experiential Networked Intelligence (ENI).

# Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](https://portal.etsi.org/Services/editHelp!/Howtostart/ETSIDraftingRules.aspx) (Verbal forms for the expression of provisions).

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# Executive summary

The present document specifies a high-level functional abstraction of the process of intent policy Multi-Stage translating in ENI system in terms of Functional Modules, Internal Reference Points and working pipelines.

# Introduction

# 1 Scope

This GS will investigate the management and orchestration functions for network OAM large models. Large language models are proven to be a technical break through representing the latest AI technology. This brings encouraging new options for network operators on network orchestration. In order to guide the development of the specification of the interfaces exposed between network OAM large model Functional Blocks (FBs), it is important to have a clear and consolidated set of functional requirements. This GS will standardize orchestration functional requirements specification for network OAM large models

# 2 References

## 2.1 Normative references

## 2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non‑specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long-term validity.

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

[i.1] ETSI GR ENI 004: "Experiential Networked Intelligence (ENI); Terminology for Main Concepts in ENI".

[i.2] ETSI GS ENI 005 (V2.1.1): "Experiential Networked Intelligence (ENI); System Architecture".

[i.3] ETSI GR ENI 008: "Experiential Networked Intelligence (ENI); Evaluation of categories for AI application to Networks"

# 3 Definition of terms, symbols and abbreviations

## 3.1 Terms

For the purposes of the present document, the terms given in ETSI GR ENI 004 [i.1], ETSI GS ENI 005 [i.2].

## 3.2 Symbols

Void.

## 3.3 Abbreviations

For the purposes of the present document, the abbreviations given in ETSI GR ENI 004 [i.1], ETSI GS ENI 005 [i.2], ETSI GR ENI 008 [i.3].

# 4 Overview of large network OAM models

## 4.1 Introduction

## 4.2 Functional requirements

## 4.2.1 Basic functions

## 4.2.2 Network specific functions

## 4.3 Model interaction

4.3.1 Model pre-training

4.3.2 Model turning

4.3.3 Model query

4.3.4 Model validation

4.3.5 Model registration

4.3.6 Model deletion

4.3.7 Model modification

## 5 OAM scenarios

5.1 Network monitoring

5.2 Network ticket handling

5.3 Network planning

5.4 Network fault prediction

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