



TELECOM INFRA PROJECT®

TelcoAI

Project Group Charter

Artificial Intelligence in Telecommunications

This Project Group (“PG”) Charter establishes the purpose, project scope, and intellectual property license terms applicable to the Project described below (“Project”). Only Participants who agree to the terms of this Project Group Charter are permitted to participate in this Project Group.

Access to the PG, its draft and final Deliverables, meetings, etc. and permission to use it are offered by TIP to any TIP Participant who agrees to the terms of this Charter. You agree that you will not share any Contributions of other PG members, or any draft or final PG Deliverables with any party who is not a member of this PG.

TIP Board of Directors Approval Date: April 08, 2024

Project Group Charter Effective Date: April 08, 2024

1. PROJECT GROUP NAME

Artificial Intelligence in Telecommunications, or “TelcoAI”

2. PURPOSE

Enormous speed in growth in AI capabilities is currently not fully reflected in the way telco operators utilize AI. The TelcoAI Project Group’s overall goal is to enable the operators to make use of AI faster and at scale.

3. SCOPE

The group will focus on different options implementing AI in telecommunications networks, this includes the use of edge, regional and centralized data centers in Operator infrastructure for AI as well as the use of public cloud options where applicable. Building these different routes to market has many benefits including scalability, reduced latency, optimized traffic patterns, increased resource utilization, enhanced reliability and fault tolerance, privacy and security benefits, energy efficiency, dynamic environment adaptability, and a host of others.

The TelcoAI PG will align, draft and prioritize specific use cases where distributed AI and edge deployment of models are currently lacking in the industry, and where they will provide the highest benefit. These use cases will take into account both deployment (on-premise, edge, cloud, hybrid, etc.) and integration constraints.

Building from the use cases, the PG will develop technical requirements and architecture blueprints to enable deployment and operation of AI telecom networks. To show and prove out the efficacy of these blueprints, the PG may conduct one or more proofs of concept (PoC) to validate and illustrate reference architectures as described in the blueprints.

Additionally, the PG will align on and suggest, via technical papers and other communications, appropriate data collection, retention, and data governance guidelines for network data to be used by individual AI use cases of interest, as well as consider data privacy and security regulations as data crosses edge, on-premises and public cloud domains.

4. PROJECT GROUP PARTICIPATION

Any individual who is employed by, affiliated with, or otherwise represents a TIP Participant that has agreed to this PG Charter may participate in the PG, subject to compliance with the following criteria, if any:

- No additional membership criteria

A PG Member may be suspended or removed from the PG for failure to meet the above criteria, and as otherwise set forth in the TIP PG Procedures, Bylaws, or other TIP Policy.

5. PROJECT GROUP LEADERSHIP

TelcoAI PG will have at least one and up to five designated Chairs/Co-Chairs to oversee and guide general PG activities. Additionally, upon creation of a Subgroup, individual Subgroup leads/co-leads will be designated to guide the activities of the Subgroup, reporting upwards into the larger PG.

6. PROJECT GROUP FUNCTION & STRUCTURE

The group will be structured and managed as a single Project Group, with the option to create workstreams and/or Subgroups as appropriate to meet community needs. If the Co-Chairs determine a Subgroup is needed to effectively manage and develop an activity within the PG, a Subgroup Charter will be drafted and approved pursuant to TIP Policies.

The PG will be split into 5 different activities. Each of them depends on the other activities, therefore they are handled jointly.

- Use cases and use case assessment
- Architecture principles and reference architecture
- PoC implementation
- Data handling
- Ecosystem development.

Subject to TIP Board and Technical Committee approval, additional Subgroups may be created to address new technology and market developments arising within the Scope of the Project Group.

7. COLLABORATION AND COOPERATION

The TelcoAI PG will collaborate with the OpenRAN PG for AI implementations with Open RAN architecture including but not limited to RIC. The TelcoAI will also interface with OOPT, OpenLAN and other TIP Project Groups for use cases, architecture and their needs for AI implementation.

In addition, the TelcoAI PG will leverage existing network standards and infrastructure, as appropriate, from other industry groups such as:

3GPP, O-RAN ALLIANCE, Open Grid Alliance (OGA), Global Telco AI Alliance, Linux Foundation LFN AI Taskforce.

8. PROJECT GROUP DELIVERABLES

TIP may develop up to four types of Deliverables:

- Documents (includes Use Case Definition, Requirements Documents, Test Plans, White Papers, etc.);
- Test Materials;
- Software; and
- Specifications (used extremely rarely).

The applicable policies or agreements are specified in the table below along with any procedures for approval and/or release of each Deliverable the Project Group intends to develop.

Contributions to Deliverables and any license to use the Deliverable upon its finalization are governed by TIP's Organizational Documents which may be accessed [here](#). The IPR policies and agreements referenced below are TIP Organizational Documents unless otherwise specified and attached to this Charter.

| Deliverable | IPR Treatment | Approval Procedures |
|--|--|---|
| Document: Overview and assessment of use cases | TIP Document IPR Policy | Technical Committee |
| Document: Blueprints, technical requirements, and Architecture guidelines | TIP Document IPR Policy | Technical Committee; Test and Validation Committee |
| Document: PoC concept and planning | TIP Document IPR Policy TIP Test Materials Policy | Technical Committee; Test and Validation Committee |
| PoC implementation and results | TIP Document IPR Policy TIP Test Materials Policy | Technical Committee; Test and Validation Committee |
| Document: Report on data handling | TIP Document IPR Policy | Technical Committee |

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| Document: Actions to develop the ecosystem, ecosystem analysis | TIP Document IPR Policy | Technical Committee |
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9. CHARTER UPDATE

This Project Group Charter will be updated to reflect any changes as set forth in the [Project Group Charter Revision Policy](#).