



Project Group Charter

Data & AI Foundations Project Group

PG short name: “Data & AI Foundations”

This Project Group (“PG”) Charter establishes the purpose, project scope, and intellectual property license terms applicable to the Project described below (“Project”). Only Participants whose Authorized Representative agrees 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 unless made public.

TIP Board of Directors Approval Date: December 19, 2025

Project Group Charter Effective Date: December 19, 2025

1. PROJECT GROUP NAME

Data and AI Foundations

2. PURPOSE

The Data and AI Foundations Project Group aims to accelerate scalable adoption of AI by addressing challenges e.g., limited data accessibility, inter-company silos, trust, and security, growing network complexity, and a perceived industry shift toward AI-native networks. As 6G will be AI-native by design, the group will develop Data and AI Collaboration Frameworks that enables secure multi-operator federated learning to train Network Language Models (NLMs) accelerating design and development of AI Native networks. This framework will serve both immediate needs by unlocking deeper AI infusion into the current networks, and the long-term goals by establishing a sustainable foundation for the intelligence required in future 6G systems. This PG requires deep collaboration across the ecosystem from Service Providers, Independent Software Vendors (ISVs), Network Equipment Providers (NEPs) and System Integrators (SIs). Through shared design approaches, diversified multi-operator data, interoperability testing, and coordinated development of open, extensible AI and data architectures, these partners will jointly shape the

models, governance structures, and operational frameworks required for scalable, secure, and trustworthy AI in networks. By aligning expertise and resources, the project group will break down fragmentation across the industry and foster a unified path toward AI-native network intelligence.

3. SCOPE

The Data and AI Foundations PG will design and maintain a comprehensive, cross-domain Data and AI framework to serve as the underpinning foundation for AI Native Networks targeting the 6G timeframe, as well serving as Data and AI foundations for other TIP project groups targeting networks of today. Central to this scope is the development of an effective federated learning architecture that enables organizations to train Network Language Models (NLMs) for different network domains, including Radio Access Network (RAN), IP Transport, Fixed Access Networks including WiFi, and Core Networks. This ensures privacy-preserving collaboration, trusted data handling, and secure model advancement across the telecom ecosystem.

The project group will also define and drive the creation of artifacts, domain-specialized NLMs, and respective AI agents that address concrete operator and network use cases. These assets will be supported by techniques and best practices for telecom-domain model customization, ensuring that organizations can efficiently adapt NLM-driven applications to their design, planning and operational environments. Outputs will be integrated into a community marketplace where models, agents, and tools can be validated, benchmarked, and prepared for deployment at scale.

The Data and AI Foundations PG will build a secure data and intelligence sharing framework for multi-provider NLMs with a focused roadmap including:

1. Curating domain specific data for enablement of domain specialized NLMs
2. Creating domain-specialized NLMs, AI agents, and supporting artifacts for production ready operator and network use cases
3. Designing and developing a cross-domain Data and AI framework for telecom networks
4. Establishing methods and best practices for customizing telecom-domain models and distributing assets via a validation and deployment marketplace
5. Developing and securing federated learning architecture for multi-provider NLMs
6. A framework for: Security, Agent Decision Making, Benchmarking, Scalability, Production readiness & interoperability

Operating horizontally across TIP Project Groups, the Data and AI Foundations PG will collaborate closely with RAN, Transport, Fixed Access and Core network stakeholders to harmonize requirements, align data frameworks, and integrate domain expertise. All the TIP Project Groups will benefit through standardized tools, guidelines, validation methods, and cross-domain AI/ML frameworks that accelerate the adoption of NLM-powered Agentic Systems.

Within this scope, the PG will focus on:

Collaboration - Uniting operators, vendors, and TIP groups to solve shared data and AI challenges through joint contributions (data, assets, frameworks, services, use case and interoperability etc.).

Alignment - Ensure consistent data frameworks, requirements, and architectures across telecom domains for seamless interoperability.

Best Practices - Provide standardized methods and guidance to accelerate secure, efficient, and high-quality AI development. The group will also identify standardization gaps to access the network data and propose further actions.

Validation and Certification - Establish rigorous testing, benchmarking, and validation processes to ensure trustworthy, deployment-ready AI solutions.

Developing Network Language Models (NLMs) - Builds telecom-specific NLMs tailored to RAN, Transport, Fixed Access, and Core networks and services

Training and Customization - Enable operators to adapt foundation NLMs to their unique network designs, planning workflows, and operational environments.

Production-Ready AI Agents - Delivers AI agents powered by NLMs to automate diagnostics, optimization, and decision-making in live networks.

Scaling AI for Production Systems - Provides architectures and tools that allow AI solutions to be deployed reliably and efficiently at telecom-scale.

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 participation 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

The Data and AI Foundations PG will have up to 5 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.

7. COLLABORATION AND COOPERATION

The Data and AI Foundations PG may leverage existing network standards and infrastructure, collaborating with other consortia that are involved with developing technologies relevant and relating to that of the PG. The consortia listed below may be modified based on identified gaps in standardization.

- TM Forum
- O-RAN ALLIANCE
- AI-RAN Alliance
- ATIS NextG Alliance
- GSMA

The Project Group will also collaborate with all the TIP project groups for data framework, AI enablement, guidelines and tools.

8. PROJECT GROUP DELIVERABLES

The PG will develop the types of Deliverables selected below. Creation of and contributions to Draft Deliverables, as well as approval of Final Deliverables is subject to the PG Procedures. The IPR treatment for all Deliverables is set forth in the TIP Intellectual Property Policy, as revised from time-to-time by action of the Board, and other of TIP’s Organizational Documents, as applicable.

| Deliverable | Approval Procedures |
|---|-----------------------------|
| Federated Learning Architectures – To enable privacy-preserving, multi-organization training of telecom NLMs | Project Group |
| Telecom Networks Domain Model Customization Techniques & Best Practices – Methods and guidance to adapt foundation NLMs to RAN, Transport, Fixed, and Core network use cases. | Project Group |
| Test Plans and Allocation Criteria for intelligent agents and/or applications in collaboration with other PGs where relevant. | Test and Validation Council |
| Benchmarking and Validations – Standardized procedures, metrics, and test environments to evaluate model performance, robustness, and deployment readiness. | Project Group |

CHARTER UPDATE

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

ORIGINAL SUPPORTING COMPANIES

The initial sponsoring / supporting companies of the Data & AI Foundations PG are:

- AT&T
- AWS
- Orange
- Telefonica

Founding members will contribute use cases and relevant data-sets to drive execution. AWS will contribute service credits, technical expertise and potential SI partner resource needs identified by other founding member contributions. TIP will be the trusted custodian of artifacts and blueprints.