TELECOM INFRA PROJECT

TIP Technical Committee Charter

Version 2.0 July 2019 approved by the Board.   This version supersedes the Technical Committee Charter from September 2018.

This charter (the "Charter") sets forth the purpose, scope, responsibilities, duties, composition, and procedures of the Technical Committee ("TC") of the Telecom Infra Project ("TIP").

PURPOSE

The purpose of the TC is to assist the TIP Board of Directors ("Board") in fulfilling oversight responsibilities with respect to technical matters. The TC provides guidance to promote technical excellence within the TIP Project Groups (as defined in Section 6.1 of the Bylaws), TIP projects, and larger TIP community, fulfills the duties and responsibilities regarding Project Group administration, approval of publications, and the provision of recommended actions for consideration by the Board.

SCOPE

The TC is tasked with improving the Project Groups' effectiveness, leveraging synergies across the different TIP Project Groups as well as other industry initiatives in the telecom space, and identifying areas of focus to best serve the community. The TC ensures that:

- Project Groups develop technical solutions, demonstrations, specifications, best practices, or other deliverables that address and solve problems acknowledged by communications infrastructure operators.

- Project Groups have an adequate mix of industry experts and representatives that encourages effective collaboration to build technical solutions that are aligned with the approved Project Group Charter.

- Project Group deliverables are made generally available under the terms as set forth in the Project Group Charter. The TC uses the TIP mission and tenets to guide Project Group activities, specifically with respect to the following objectives:

- The most important aspect of enabling an economically robust infrastructure is ensuring that operators and integrators have **flexibility and choice.** TIP solutions are expected to expand such opportunities as opposed to constrain them.

- With increasing bandwidth demands, it is critical to focus on enabling **performance leading** technology innovations.

- TIP is committed to preserving opportunities for technology differentiation through innovation. Nonetheless, **collaboration** is a critical aspect of ensuring innovation is focused in the right areas, avoiding gratuitous differentiation and enabling the community to advance in a fashion supportive for all.

- Anticipating an extensive growth in the number of devices powering the network, adopting modern data center design and operational practices will provide operators with the necessary tools for managing a flexible network at a large **scale**.

DUTIES and RESPONSIBILITIES

Project Group Initiation

- The TC develops, publishes and maintains the criteria used to initiate new Project Group activities within TIP.

- The TC reviews draft Project Charters (as defined in Section 6.2.1 of the Bylaws) and recommends to the Board for their approval Project Groups that meet the TIP objectives and the TC Group criteria.

Project Group Technical Oversight

The TC provides technical oversight and recommendations, but will not provide Contributions (as defined in Section 1.3 of the TIP IPR Policy) or Feedback (as defined in Section 1.7 of the TIP IPR Policy) while working with the nominated Project Group Chairs and Co-chairs to best prepare the group to deliver meaningful results. For this purpose, the TC is providing Area Directors ("ADs") who support TIP activities in one of the focus areas as laid out in the Area Director Role Description document maintained by the TC. The ADs specifically support Project Group Chairs in their work to ensure that:

- Project Groups have clear objectives that are aligned with the TIP Mission and goals.

- Project Groups have clearly defined deliverables that will result in solutions that can be delivered to the Telecom market and ecosystem.

Project Group Resources

The TC ensures that Project Groups have the resources they need to build, test and deliver solutions defined within the scope of each Project Group's Charter. It does this through:

- **People** - Engaging on a regular basis with the Project Group Chairs to ensure each group maintains the right mix of participants that will deliver solutions within expected timelines.

- **Productivity Tools** - Enabling collaboration within the Project Groups as well as providing tools for publication and lifecycle management of Project Group results

- **Lab Support** - Supporting TIP foundational and community functions by providing clear Community Lab entry and exit criteria and review of Project Group milestones related to TIP Community Lab activities.

- **Software development best practices** - Developing a software collaboration model to increase development efficiency and encourage re-use of software components, models, and APIs throughout the TIP ecosystem.

- **Member and Industry Advocacy** - Serving as community evangelists, to seek new members and connect existing ones. TC members advocate for the TIP community at large and its specific members in various forums, from the Board to external organizations and events.

TC Approval of Publications

The TC has the delegated authority from the Board to approve, adopt and release publications that are not Specifications or Software (as those terms are defined in the TIP IPR Policy) including white papers, glossies, and other similar documents, that involve promoting TIP solutions including TIP's marketing and educational materials or other publications in any media ("Publications"). Such Publications may originate within a Project Group or within the TC. The TC will develop procedures to be used by Project Groups for the approval of Project Group Publications.

TC Membership and Participation Expectations

- The TC aims to staff six to ten active members.

- TIP members in good standing are qualified for the technical committee.

- Nominees must have deep technical expertise in at least one of the TIP focus areas which is required to support the work of TIP and the Project Groups.

- Nominees must be sponsored by a current TC or TIP Board member. The Board will approve new members as recommended by the TC.

- TC members who are not able make themselves available in a way that allows them to fulfill the role of a TC member shall inform the TC and open their TC

seat. TC members not fulfilling the duties laid out in this Charter can be removed from the TC by majority vote.

Decision-Making Process, Meeting Frequency and Reporting

- The TC meets at a self-arranged cadence, usually every other week.

- Decisions are made by majority vote except decision regarding approval of Publications require a supermajority of 75% where a quorum (at least 50% of all TC members) is present.

- Voting may be performed in person during TC meetings or via electronic voting. Each TC member has one vote in decisions made by the TC.

- The TC reports its activities to the Board at least quarterly.

Review of the Charter

The TC will annually review and assess the adequacy of this Charter and recommend any changes to the Board for consideration.