TELECOM INFRA PROJECT

TIP Test & Validation Committee Charter

Version 1.0 April 2021 approved by the Board.

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

PURPOSE

The TIP Test & Validation Committee ("TVC") ensures consistency of all test and validation activities across all TIP Project Groups and TIP authorized Testing and Validation ("T&V") activities.

Through its approval and oversight of T&V activities, the TVC is promoting the commercial readiness of products that are the outcome of the T&V activities and developed to fulfill TIP Project Group (as defined in Section 6.1 of the Bylaws) Use Cases and Requirements. The members of the TVC will represent the diversity of the TIP community.

SCOPE

The Scope of activities that the TVC will be responsible for includes the following. The TVC provides technical oversight and recommendations but will not provide Contributions (as defined in Section 1.3 of the TIP IPR Policy) or feedback to Deliverables (as defined in Section 1.7 of the TIP IPR Policy).

- Ensuring consistency between Project Group requirements regarding TIP T&V activities
- Ensuring cross-PG consistency of the T&V requirements developed by each Project Group
- Overseeing Project Group "self-certification" badges
- Approving Project Group badge criteria to support both commercial readiness and listing on TIP Exchange
- Approving badge allocation for products listed on TIP Exchange
- Overseeing the activities in the TIP Community Labs, Authorized third party labs, and field and lab trials

- Advising Community Lab Hosts on any technical and guidance necessary
- Defining key performance indicators ("KPIs") and developing a reporting dashboard to provide to the TIP Board of Directors on an appropriate cadence

The TVC will interact primarily with:
- Community Lab Hosts and authorized third party lab hosts or candidates
- The Test and Integration Project Group
- Industry organizations with similar purposes
- Project Group leadership, where leadership is defined as the Chair, Co-Chair, Project Group Community Manager, and Technical Lead
- The TIP Technical Committee

DUTIES and RESPONSIBILITIES

The following are the specific duties and responsibilities that will support the Scope as noted below:

- Develop and maintain processes related to T&V activities
- Promote TIP T&V across the industry
- Oversee lab activities, including:
    - Review requests to open new TIP Community Labs, trials, and third-party labs, and make recommendations to the TIP Board of Directors for final approval
    - Organize and lead meetings between Community Lab Hosts to enable knowledge sharing
    - Coordinate how labs report their activities
    - Ensure compliance with the TIP Lab Policy

- Oversee T&V activities, including:
    - Review projects entering lab or field trials including Community Lab Host applications and Project Descriptions as necessary
    - Review projects in exiting labs or field trials, and ensure that final contributions are contributed according to the applicable Project Description
    - Review test plans or testing proposals generated by the Project Groups, and provide guidance in terms of consistency of testing across Project Groups

- Provide approval of allocation of TIP badges:
    - Review and approve badge allocation criteria set by the Project Group, and verify the alignment with TIP badge definitions
    - Review badging requests from the Project Group and approve for posting such badges in TIP Exchange

- Report T&V activities summary to the Technical Committee

TVC Participation & Participant Expectations

- The TVC aims to staff six to ten active members
- Individuals employed or sponsored by TIP Full Participants in good standing are qualified for the TVC in accordance with Section 7.2 of the TIP Bylaws
- Participants must have testing experience in the area of telecom technologies
- Participants are appointed for 1 year by current TVC members by majority vote
- The TVC may appoint new members at any time, so long as the maximum number of members is not exceeded

TVC members who are not able make themselves available in a way that allows them to fulfill the role of a TVC member shall inform the TVC and resign from the TVC seat. TVC members not fulfilling the duties laid out in this Charter can be removed from the TVC by majority vote. TVC members will be assumed to have resigned their seat after 3 unexcused meetings non-attendance.

Decision-Making Process, Meeting Frequency and Reporting

- The TVC meets at a self-arranged cadence, usually once a month
- The TVC will formally approve new labs, new trials, the results to give the badge, previously vetted by the Project Group Technical Lead or Test & Integration Project Group (depending on the test activity), and any badge criteria
- Decisions are made subject to Section 7.2.2 of the Bylaws
- Polls and Voting may be performed in person during TVC meetings or via teleconference platform.
- The TVC reports its activities to the TIP Board of Directors at least quarterly.

Review of the Charter

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