TELECOM INFRA PROJECT

OpenLAN

Project Group Charter
Open and Disaggregated Wireless & Wired LAN

This Project Group Charter establishes the purpose, project scope, and intellectual property license terms applicable to the Project described below ("Project"). Only Participants whose Authorized Representative executes this Project Group Charter are permitted to participate in this Project Group in accordance with the TIP Bylaws.

TIP Board of Directors Approval Date: July 26, 2023

1. PROJECT GROUP NAME

Open Local Area Networks – "OpenLAN"

2. PURPOSE

Wi-Fi & Ethernet are the ubiquitous technologies used for home and business networks in a wide range of verticals (MDU, education, retail, hospitality, public venues, carpeted office, Single-Family Residences, etc.) and have become mission critical for SMB's, enterprises, and many other residences & businesses, connecting an ever-growing number of devices and applications onto the internet.

OpenLAN's mission is to create a rich open ecosystem of interoperable solutions including Whitebox Wi-Fi access points, Whitebox Ethernet switches, and native cloud management thereby accelerating innovation by providing choice and reducing vendor lock-in, reducing the barrier to entry for new suppliers, and improving industry collaboration.

3. SOFTWARE PROJECT SCOPE

The OpenLAN Project Group is a dedicated open-source community for the design, development and testing of local area disaggregated networking systems consisting of Wi-Fi access points, Ethernet switches, IoT radios and other technologies, including network convergence.

The group is developing a common technology stack foundation for community members to leverage in creating a diverse set of solutions for the market with members developing differentiated offerings unique to their verticals on top of the shared common tech stack.

The group will focus on the iterative development, validation, and contribution to OpenLAN:

- Manage a development roadmap of new solutions, features and capabilities for OpenLAN driven by community interests.
- Contribute software requirements, design artifacts, architectures, APIs, data models, source code and workflows to the group open-source repositories and project Wiki.
- Reference to and reuse of existing industry standards and available components as appropriate.

- Automated testing in TIP maintained labs to validate OpenLAN systems core components.
- Solution hardening by engaging in field trials (Service Provider, OEMs, ODMs, business verticals, etc.)

General Deliverables

- Rich Whitebox hardware ecosystem:
    - Curate a range of Wi-Fi AP's (indoor, outdoor, wall-mount, WiFi6E/WiFi7), Ethernet switches, and other similar devices
    - Develop group requirements and recommendation for common ODM SKU's
    - Validation and badging of ODM commercial SKU's
    - Select open-source hardware designs to be used as reference platforms

- Rich pre-integrated and validated open-source software stack:
    - Curated open-source network operating systems
    - De facto standardized cloud management protocol (validated client / server implementation)
    - CloudSDK (foundation software framework for development of cloud management systems)
    - Common Telco/Enterprise system capabilities in open source (Passpoint, overlay tunneling, etc.)

- Operation of community infrastructure services:
    - Centralized Certificate Authority (CA) infrastructure for OpenLAN enabled systems with self service capabilities (API & GUI)
    - Global secure Zero Touch Provisioning (ZTP) using the TIP CA framework
    - Continuous integration, deployment & automated testing pipeline for the open-source software:
        - Standardized TIP images for whitebox devices
        - CloudSDK microservices
        - Utilities (load-generator, test-automation code, etc.)

Delivery Process

- Software development, including continuous integration and automated test, will be managed, tracked, and delivered by industry standard, open-source practices including defined roadmap, feature backlog, defined agile delivery sprints, standup meetings and other common practices
- System design and validation artifacts will be managed, tracked and delivered via industry standard, open-source practices and published in the project group tools (JIRA/Wiki/GitHub)

4. COLLABORATION

The group will be initially comprised of the following three subgroups. 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.

- OpenWiFi (OWF) sub-group
- OpenLAN Switching (OLS) sub-group
- OpenLAN Business sub-group
    - E2E use case definitions
    - Regulatory compliance mapping (FCC, EU CE, etc)
    - OpenLAN Badging requirements (bronze/silver/gold)
    - Roadmap steering committee
    - Marketing and business development

The OpenLAN group will engage and collaborate with other TIP Project Groups as appropriate. A key driver of this collaboration will be the public availability of the software, test automation and system validation code and documentation artifacts contributed to the OpenLAN group.

In addition, the group will collaborate with and reuse existing software components, as appropriate, from other industry groups related to network software and infrastructure such as:

- Wi-Fi Alliance (https://www.wi-fi.org/)
- Wireless Broadband Alliance (https://wballiance.com/)
- OpenWRT (https://openwrt.org/)
- OCP/Linux foundation (around SAI/SONiC for switching)

5. GROUP CHAIRS AND CO-CHAIRS

The group will have at least one and up to three designated Chairs/Co-Chairs to oversee and guide general project group activities. Additionally, individual sub-group chairs will be established to guide the activities of defined sub-group reporting upwards into the general OpenLAN Project Group.

6. OPEN SOURCE PROJECT GOVERNANCE

The Project Group will select members to form the Project Steering Committee (PSC), the PSC will decide based on consensus on the day-to-day operation of the SW project this includes:

- Define members roles & responsibilities (SW contributors / maintainers)
- Software development process
- Code contribution process

PSC guidelines:

- Any members that are in the Full Participation TIP Tier can suggestion their nomination
- PSC members will be selected once a year by a vote of the community (paid members)[1]
- The PSC will consist of 7 selected members + the Co-chairs of the PG
- PSC defined process, decisions & meeting notes should be published to the community (foster transparency)
- All existing TIP bylaws supersede anything within this document.

7. PROJECT MAINTAINER RESPONSIBILITIES

The Maintainer, according to the Telecom Infra Project IPR Policy, has the following responsibilities:

- The Maintainer will coordinate the Contributions of Contributors (including accepting or rejecting proposed Contributions), the hosting of the Project, and handling of pull requests in accordance with the then-current TIP Guidelines for Maintainers for TIP Software Projects
- The Maintainer will determine practices for releases of updates subject to approval by the Board of Directors or an Administrative Committee formed in accordance with the TIP Bylaws
- The Maintainer has the additional responsibilities described in this Charter and as may be delegated to him or her from time to time by the TIP Board of Directors, including:
  - Ensuring that all Contributors' Authorized Representatives have executed the TIP Software Contribution and License Agreement
  - Tracking all Contributions submitted including the date of submission, the entity responsible for the submission, and whether the Contribution was accepted, with or without modification, or rejected
  - Appointing and managing Committers, if any, in accordance with the then-current TIP Guidelines for Maintainers for TIP Software Projects
  - Coordinating with TIP legal counsel to ensure compliance with all third-party software licenses including free and/or open-source software licenses, as necessary

8. SERVICES PROVIDED BY TIP

- Public GitHub repositories
- Atlassian Suite (Jira, Confluence)
- Slack, Zoom
- Project group Email

[1] Each company participating in the Project Group receives one vote, regardless of the number of employees from such company that participate in the Project Group.

9. INITIAL SOURCE CODE CONTRIBUTION

- Open Wi-Fi Firmware source code under Standard 3-clause BSD License
- Open Wi-Fi Controller source code under Standard 3-clause BSD License
- Supporting source code documentation under TIP Document IPR Policy
- Source Code and Documentation links

10. PROJECT TERMS

This Project Group Charter establishes the purpose, project scope, and intellectual property license terms applicable to the Software Project described herein ("Project"). Only Participants whose Authorized Representative executes this Project Group Charter are permitted to participate in this Project Group in accordance with the TIP Bylaws.

Access to the code 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. A roster of PG member entities is available on the project group Confluence page.

10.1 LICENSE TERM

The license terms applicable to the Software Project shall be as follows:
___ Limited copyright-only license as approved by the TIP Board of Directors.
_X_ Standard 3-clause BSD License.
___ BSD License plus patent grant. 5

A copy of the complete license for the Project is attached hereto as Schedule 1 (the "Project License").

10.2 CONTRIBUTION TERMS

Organizations and individuals that execute this Software Project Charter will be bound by its terms, will be permitted to participate in the project, and shall be considered "Contributors" in the project as defined in the TIP software contribution and license agreement.

Contributions to the Software Project for must be made pursuant to the TIP Software Contribution and License Agreement (CLA)

___ Check here if Contributions must also be accompanied by the Developer Certificate of Origin as set forth in Annex B of the Telecom Infra Project IPR Policy

10.3 SOFTWARE PROJECT LICENSING POLICIES

Contributions to Deliverables and any license to use the Deliverable upon its finalization are governed by TIP's Organizational Documents. The IPR policies and agreements referenced below are TIP Organizational Documents unless otherwise specified and attached to this Charter. Deliverable	IPR Treatment	Approval Procedures
Software, test automation, and system validation source code as defined in Section 3 Deliverables	Document IPR Policy	Version(s) approved by consensus of the Maintainers and project group Chairs
Test automation, system validation, and open hardware documentation artifacts as defined in Section 3 Deliverables	Document IPR Policy	Final approval by Technical Committee

ACCEPTANCE

_____

Contact Name

_____

Contact Title

_____

Email Address

_____

Telephone Number (include country code)

_____

Company Name

_____

Company Address (include city, state, country, postal code)

_____

Company Website

_____

Primary Services/Products the Company provides

_____ _____

Signature Date

_____

Print Name