

IEEE SA Open

Presentation to EMB Standards Committee

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*This version includes corrections made after the initial presentation

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What is Open Source?

Open Source is a digital work for which the human-readable source code is available—in the preferred form for making modifications—for use, study, re-use, modification, enhancement, and re-distribution by the users. Open Source applies to software and hardware, which may include computer code, hardware designs, data, documentation, documents, and other digital objects.

—IEEE SA Open Source Committee Operations Manual

IEEE SA OPEN

1 | Staff



2 | Models



3 | Funding



4 | Platform



1 | Staff

Community Managers: Josh & Melissa
Executive Director: Coming soon!
Product Manager: Apply within!
Tech lead: Coming soon!



3 | Funding



4 | Platform



1 | Staff



2 | Models

IEEE SA OPEN Community
IEEE SA OPEN Venture



3 | Funding

4 | Platform



1 | Support



3 | Funding



IEEE Foundation COIL Fund
fiscal sponsorship ◦ new initiatives ◦ educational workshops

4 | Platform



IEEE SA OPEN: Funding

3/ Funding



The IEEE SA and IEEE Foundation have established the COIL Fund (Collaborative Open Innovation Lab Fund)

The IEEE SA will use the COIL Fund to:

1. Provide comprehensive fiscal sponsorship to Open Source projects
 - OS Projects raise their own funds, we provide fiscal sponsorship.
2. Incubate and grow new new open source and standards-related initiatives.
 - IEEE SA raises funds to incubate and support initiatives
3. Workshops and other educational initiatives
 - IEEE SA and/or projects raise funds to support workshops

 **Our funding models and financial services are under development** 



IEEE Open Source Platform

consists of the

- Code and document repositories,
- License repositories,
- Communication forums,
- Project management systems,
- and related administrative and end-user tools

maintained by IEEE for the purpose of hosting Open Source Projects together with the associated governance mechanisms, support mechanisms, and other services offered to participants, users, and consumers of Open Source Projects.



IEEE Open Source Platform

Self-hosted:

- <https://opensource.ieee.org> - GitLab Collaboration Platform
- <https://opensource-connect.ieee.org> - Mattermost Comms. Forum
- <https://ieee-opensource.org> - Microsites for projects (*coming soon!*)

Third-party support:

- IEEE-SA Team on github.com
- IEEE SA Group on gitlab.com

Tools/services that help the staff support staff

- Tidelift.com - Managed service that provides code hosting and insurance backed assurances on license compliance



- **The IEEE Open Source Platform** consists of the code and document repositories, license repositories, communication forums, Project management systems, and related administrative and end-user tools maintained by IEEE for the purpose of hosting Open Source Projects together with the associated governance mechanisms, support mechanisms, and other services offered to participants, users, and consumers of Open Source Projects.

Some Open Source Projects

4 | Platform



- **IEEE 1076-2019** - VHDL: VHSIC Hardware Description Language Analysis and Standardization
- **P2791**: Standard for Bioinformatics Computations and Analyses Generated by High-Throughput Sequencing (HTS) to Facilitate Communication (P2791)
- **P1752 (Open mHealth)**: Open Mobile Health Standard for Mobile Health Data led by the Executive Director from Open Mobile Health which has a focus on making data more accessibility through an open standard, open source tools and open source community and seeks to utilize IEEE Open Source Platform to help achieve their goals.
- **P1451.1.4 (XMPPi)**: XMPP interfaces for the Internet of Things
- **P9274.1.1 (xAPI)**: xAPI Base Standard - JavaScript Object Notation (JSON) Data Model Format and Representational State Transfer (RESTful) Web Service for Learner Experience Data Tracking and Access

Some considerations for Standards WGs

- Apply to become an Official IEEE Open Source Project before submitting a PAR (or file a revised PAR)
- Agree to licensing considerations determined by the Open Source Committee (Apache 2.0 and BSD 3-clause)
- Responsible officers are needed in the WG and Standards Committee
- Formal revisions and versions may be on a different cycle from changes in the published standard
- Groups should consider their plan for ongoing sustainment of their Open Source projects by the Working Group or Standards Committee after their standard has been approved.

Considerations for Industry Connections Projects

There is a new Industry Connections Activity Initiation Document (ICAID) that asks:

5.1 Open Source Software Development

Indicate whether this IC Activity will develop or incorporate open source software in the deliverables. All contributions of open source software for use in Industry Connections activities shall be accompanied by an approved IEEE Contributor License Agreement (CLA) appropriate for the open source license under which the Work Product will be made available. CLAs, once accepted, are irrevocable.

Will the activity develop or incorporate open source software (either normatively or informatively) in the deliverables?:

Yes/No

THANK YOU

<https://opensource.ieee.org/community/start>

Who can form an IEEE Open Source project?

1. **Individual Projects:** Projects that are maintained and managed by an individual who may accept contributions from others.
2. **Group Projects:** Projects maintained and managed by a group of individuals or organizations. Such Projects will typically have multiple maintainer(s), committers, etc.
3. **Official IEEE Open Source Projects:** Open Source Projects authorized by OSCom to create official IEEE Open Source Releases or products.
4. **IEEE Open Source Projects incorporated into IEEE standards:** Official IEEE Open Source Projects operating in conjunction with an SASB authorized standards Project.
5. **Joint IEEE Open Source Projects:** Official IEEE Open Source Projects that are operating in conjunction with another IEEE Board or Organizational Unit and are also subject to the policies and procedures of that Board or Organizational Unit.

Ways to get involved with IEEE SA Open Source

1. Create an individual account on opensource.ieee.org. You can create individual projects and fork existing projects.
2. Join an existing group-based open source or open source hardware project
3. Create a new group based, Official IEEE Open Source Project.
4. Join a Special Interest Group (SIG) of the Open Source Committee
(🔧 **SIGs are under development** 🔧)

IEEE SA Open - Aims

 **Our aims and goals of IEEE SA Open are under development (draft)** 

The IEEE SA Open provides a platform, support, and oversight for individuals and groups to develop of open source software and open source hardware, it aims to:

Some aims of the IEEE SA Open include:

- Promote innovation through the collaborative engagement of industry, open source communities, and a broad base of stakeholders to address market needs;
- Offer a friendly open source process that is equally supportive of open source and standards as collaborative processes; and
- Provide comprehensive fiscal sponsorship to projects aligned with the IEEE and IEEE Foundation missions through the Collaborative Open Innovation Lab Fund (COIL).