

IEEE SA

**STANDARDS
ASSOCIATION**



IEEE SA Open-Source Initiative

accelerating innovation and enabling technological advancements

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IEEE SA Open Source Project

- IEEE Standards Association (IEEE SA) embraces open source and provides significant opportunities to support market-driven solutions and mission-based open source projects that are focused on fostering technological innovation and excellence, for the benefit of humanity.
- [IEEE SA Open](#) is a community-powered platform for open source(OS) projects.
- IEEE SA OPEN is intended to bridge the gap between standards developers and other open technical communities to enable nimble and creative technical solutions.
- Anyone can create an OS project. To join or create a project, one will need an active IEEE account. There's no cost to create an IEEE account.

Benefits of using SA Open platform

Using the platform, it is possible to reap the following benefits:

- Experience an open, flexible development environment
- Enjoy unique service add-ons and customizations
- Easily initiate a project through the Project Pipeline Process
- Put the project on the fast track to IEEE standardization
- Have access to technical, marketing, community resources and best practices from subject matter experts
- Give the project the trust and authenticity of IEEE

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

- 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.

Five categories of IEEE Open-Source Projects

There are five categories of IEEE Open Source Projects:

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.

Classification by visibility

Projects are also classified by visibility:

- **Private:** The Maintainer grants project access explicitly to each user. All users are Open Source Community members. The OSCom Community Manager and Platform administrators do have access.
- **Internal:** The project can be accessed by any IEEE Open Source Community member.
- **Public:** The project can be accessed without any authentication to view and download.

IEEE SA OPEN: Funding

- IEEE SA Open has established Collaborative Open Innovation Lab (COIL)Fund.
- OS Projects raise their own funds, IEEE SA provides fiscal sponsorship (administrative, accounting, fundraising, and legal services, freeing project members from having to spend time on these onerous tasks.
- Funding models and financial services are under development

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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](https://tidelift.com) - Managed service that provides code hosting and insurance backed assurances on license compliance

What to do next

- Submit a revised PAR amending scope and purpose to include development and provision of open source code.
- Agree to licensing considerations determined by the Open Source Committee*.
- Appoint responsible officers in the WG and Standards Committee.
- Decide if the formal revisions and versions may be on a different cycle from changes in the published standard.
- Responsible officers to consider the plan for ongoing sustainment of the Open Source project by the Working Group or Standards Committee after the standard has been approved.
- Responsible officers to consider if the software developed as open source becomes the deliverable.
- Decide if the C57.91 document when published references to the open source portions of the code as
 - "undated"/"unversioned", meaning that after the approved standard is published, the result of updating and releasing new versions of the open source project effectively updates the standard, or
 - revision of its open source will require a new Project Authorization Request (PAR) and new version of the standard

Useful resources

Sign in to the *Maintainers community* here:

https://opensource.ieee.org/users/sign_in

Access the online version of this IEEE Open Source *Maintainers Manual* here:

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

Get *help or report concerns* with the Platform here:

<https://opensource.ieee.org/help>

https://opensource.ieee.org/help/user/project/operations/error_tracking.html



Call the 24-hour phone number: +1(888)359-6323