

IEEE 802.3 COM Open Source update - March 2025

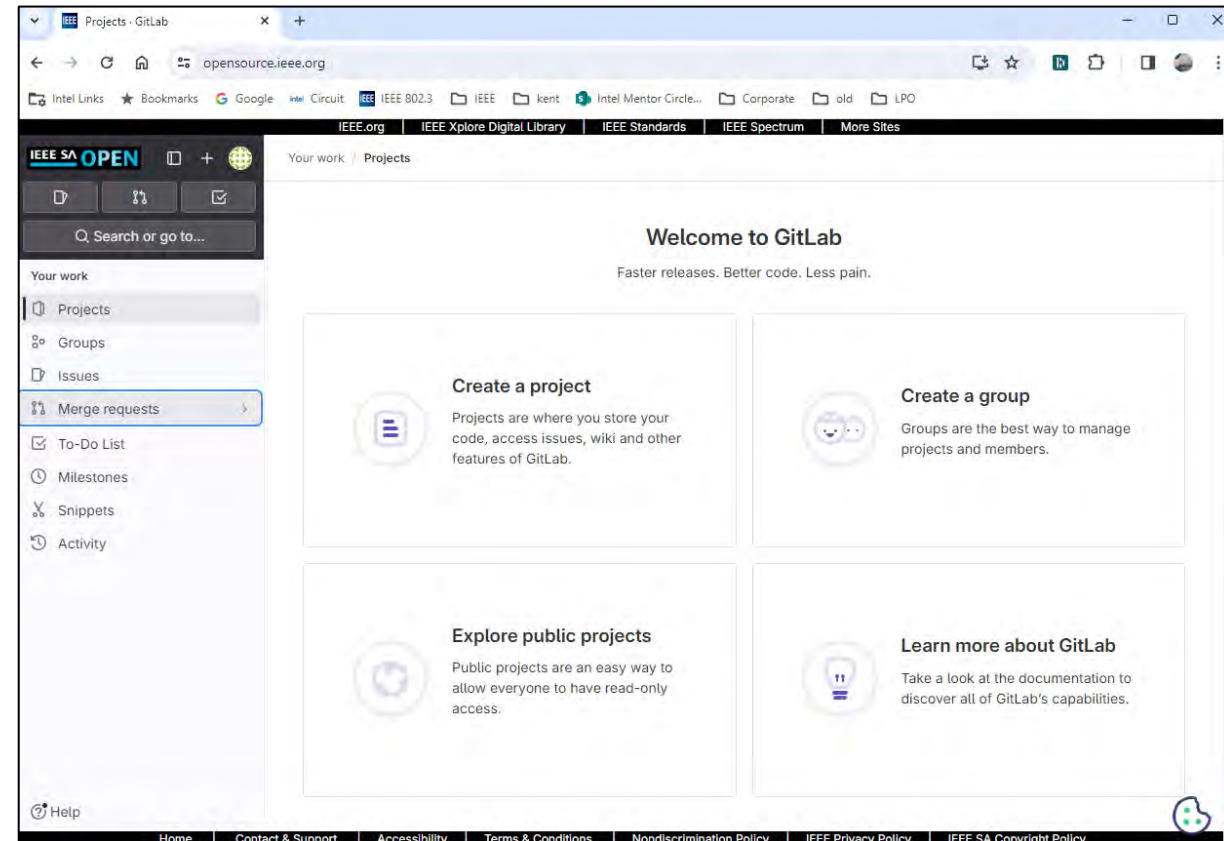
Kent Lusted, IEEE 802.3dj COM Ad Hoc Chair, IEEE 802.3 COM Open
Source Ad Hoc Chair, Synopsys

Review

- 12 December 2024: IEEE SA OSCom voted in favor of establishing IEEE 802.3 COM open source project (Tier 3)
- 23 January 2025: The IEEE 802.3 Working Group Chair established a Channel Operating Margin (COM) Open Source ad hoc
 - Appointed Kent Lusted as ad hoc Chair

IEEE SA Open Source Repository

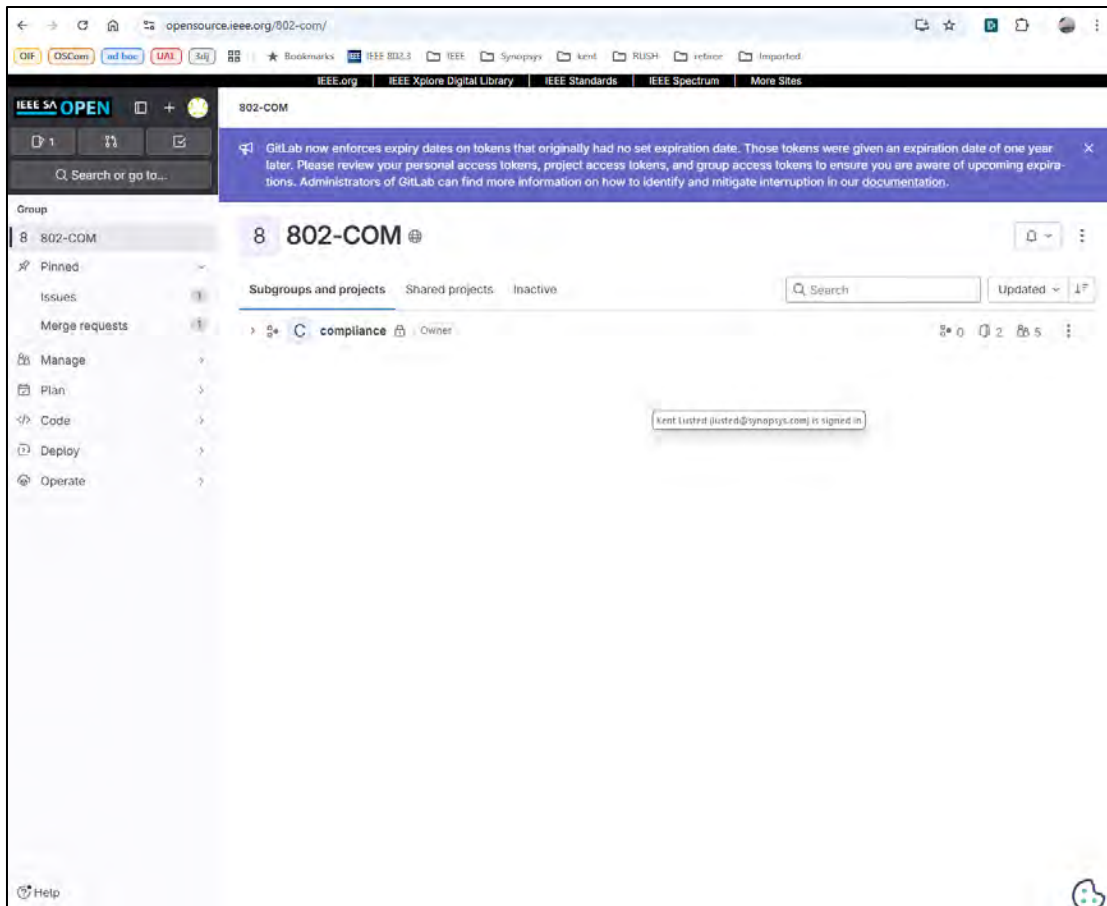
- Hosted by GitLab
 - <https://opensource.ieee.org/>
- Free IEEE web account to access
- Full suite of tools available to manage:
 - Access and responsibilities
 - Commit or merge requests
 - Forking, branching and merging
 - Issues and problems
 - Security



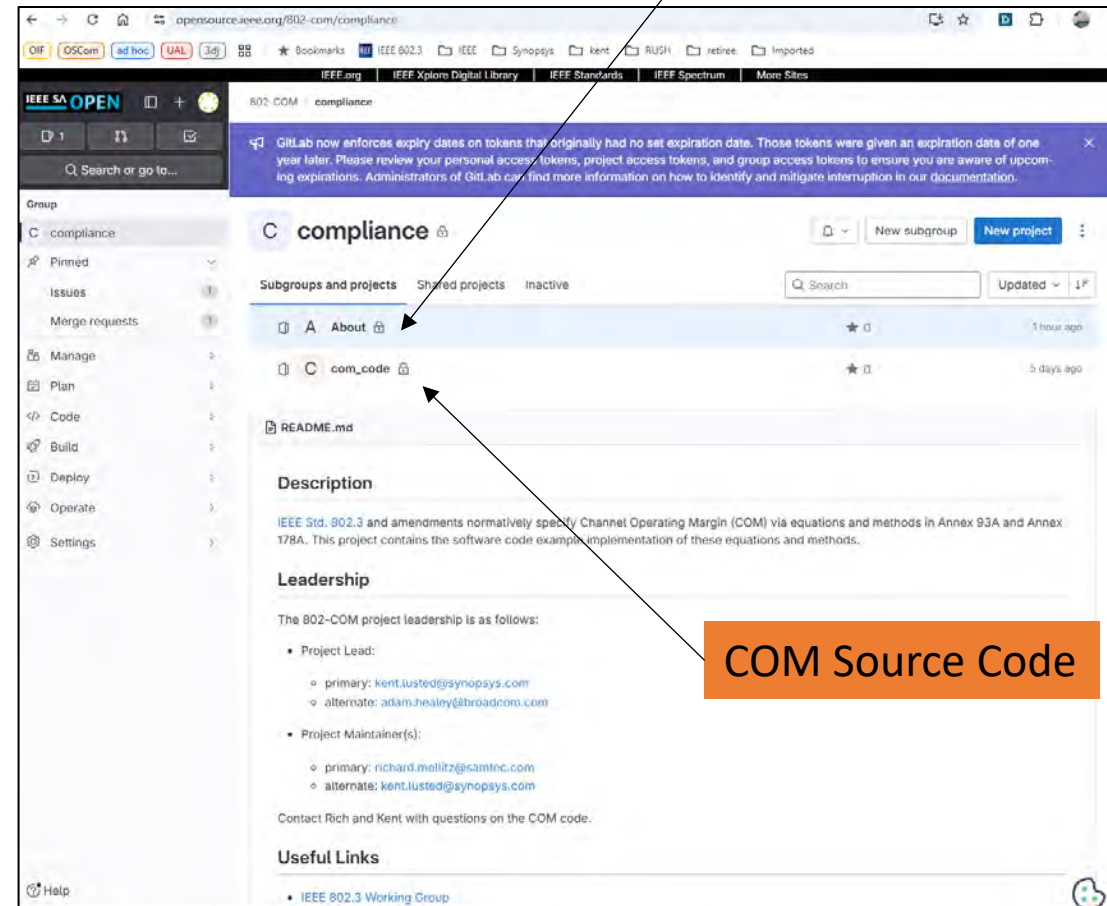
Update – March 2025

- Established the COM code repository on Gitlab
 - Namespace: “802-COM” <https://opensource.ieee.org/802-com/>
 - Operating in “private” mode until the initial commit is completed & tested. (Only visible to project lead and maintainer)
 - After the checks are completed, then Open Source community manager approves and the project goes “public” (visible to all)
- Initial COM code commit to Gitlab
 - In progress: Rich Mellitz and Adam Gregory working with the repo tool
- Establishing IEEE 802.3 COM ad hoc website under IEEE 802.3 Working Group
 - COM development activities will move here, once created
 - See: https://www.ieee802.org/3/ad_hoc/COM/index.html

802-COM Main page



Information



COM Source Code

About

The screenshot shows a web browser displaying the IEEE 802-COM compliance gitlab-profile repository page. The page is titled "802-COM / compliance / About / Repository". The left sidebar contains a navigation menu with options like "Project", "About", "Pinned", "Issues", "Merge requests", "Manage", "Plan", "Code", "Merge requests", "Repository", "Branches", "Commits", "Tags", "Repository graph", "Compare revisions", "Snippets", "Build", "Secure", "Deploy", "Operate", "Monitor", "Analyze", and "Help". The main content area shows a commit history table and a description of the repository.

802-COM / compliance / About / Repository

main ▾ gitlab-profile / + ▾ History Find file Edit ▾ Code ▾

Added hyperlinks to IEEE 802.3 WG, 3dj TF tools and channels, 3dj TF COM ad hoc
Kent Lusted authored 1 minute ago 642b72f3

Name	Last commit	Last update
AUTHORS.md	Update AUTHORS.md	2 hours ago
CONTRIBUTING.md	Add new file	1 hour ago
CONTRIBUTORS.md	Add new file	2 hours ago
LICENSE	Add LICENSE	2 hours ago
README.md	Added hyperlinks to IEEE 802.3 WG, 3dj TF...	1 minute ago

README.md

Description

IEEE Std. 802.3 and amendments normatively specify Channel Operating Margin (COM) via equations and methods in Annex 93A and Annex 178A. This project contains the software code example implementation of these equations and methods.

Leadership

The 802-COM project leadership is as follows:

- Project Lead:
 - primary: kent.lusted@synopsys.com
 - alternate: adam.healey@broadcom.com
- Project Maintainer(s):
 - primary: richard.mellitz@samtec.com
 - alternate: kent.lusted@synopsys.com

Contact Rich and Kent with questions on the COM code.

Home Contact & Support Accessibility Terms & Conditions Nondiscrimination Policy IEEE Privacy Policy IEEE SA Copyright Policy

README

The screenshot shows a web browser displaying the README for the IEEE 802-COM compliance project on GitLab. The browser address bar shows the URL: `opensource.ieee.org/802-com/compliance/gitlab-profile/-/blob/main/README.md`. The page features a navigation sidebar on the left with options like 'Project', 'About', 'Pinned', 'Issues', 'Merge requests', 'Manage', 'Plan', 'Code', 'Merge requests', 'Repository', 'Branches', 'Commits', 'Tags', 'Repository graph', 'Compare revisions', 'Snippets', 'Build', 'Secure', 'Deploy', 'Operate', 'Monitor', 'Analyze', and 'Help'. The main content area includes a success message: 'Your changes have been committed successfully.' Below this, the file 'README.md' (2.62 KIB) is shown with options to view, blame, edit, replace, or delete. The README content is structured as follows:

- Description**: IEEE Std. 802.3 and amendments normatively specify Channel Operating Margin (COM) via equations and methods in Annex 93A and Annex 178A. This project contains the software code example implementation of these equations and methods.
- Leadership**:
 - The 802-COM project leadership is as follows:
 - Project Lead:
 - primary: kent.lusted@synopsys.com
 - alternate: adam.healey@broadcom.com
 - Project Maintainer(s):
 - primary: richard.mellitz@samtec.com
 - alternate: kent.lusted@synopsys.com
 - Contact Rich and Kent with questions on the COM code.
- Useful Links**:
 - [IEEE 802.3 Working Group](#)
 - [IEEE 802.3 COM Open Source Ad hoc](#)
 - [IEEE P802.3dj Task Force Tools and Channels](#)
 - [IEEE P802.3dj Task Force COM Ad Hoc](#)
- Disclaimer Notice**: This IEEE Open Source Project contains material that may be included in, or referenced by, an unapproved draft of a proposed IEEE Standard. All material in this Project is subject to change. The material in this Project is presented "as is" and with all faults. Use of the material is at the sole risk of the user. IEEE specifically disclaims all warranties and representations with respect to all material contained in this Project and shall not be liable, under any theory, for any use of the material. Unapproved drafts of proposed IEEE standards shall not be utilized for any conformance/compliance purposes.
- See the [LICENSE](#) file distributed with this work for copyright and licensing information, the [AUTHORS.md](#) file for a list of copyright holders,

In Progress

- Documenting governance related processes
 - How Maintainers and Committers are determined, added, removed, and authorized
 - Who may contribute to the project
 - How merge requests are handled
 - How and when releases are evaluated or reviewed
 - Who decides when a release can be made
- Initial governance is the processes and dispositions from the IEEE P802.3dj COM Ad Hoc

GOVERN

GOVERNANCE.md · main · 802-COM · README.md · main · 802-COM

opensource.ieee.org/802-com/compliance/gitlab-profile/-/blob/main/GOVERNANCE.md

OIF OSCom ad hoc UAL 3dj

IEEE.org | IEEE Xplore Digital Library | IEEE Standards | IEEE Spectrum | More Sites

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Your [changes](#) have been committed successfully.

Project governance and new maintainer process

Leads and Maintainers

The list of leads and maintainers is found [here](#)

Release Workflow

1. Requests for changes to the COM code are emailed to the primary project lead and the maintainer(s) as a "Commit Request"
 - o Brief title, submitter, description of desired change, suggested remedy
 - o The Subject should be "[802-COM] Commit request for (VERSION)" where (VERSION) is the code branch to modify
2. Commit Requests are assigned a number associated with the COM version
 - o For tracking purposes
3. Commit Requests are introduced in the COM ad hoc
 - o Details are discussed, if time allows
 - o Specific code changes are provided to participants by website or reflector (TBD)
4. Participants review the Commit Request(s) offline between the COM ad hoc meetings
 - o Use of the email reflector is encouraged for discussion and debate on Commit Requests
5. A straw poll on a Commit Request is taken at a future COM ad hoc meeting to gauge support
 - o If there was support, then a Commit Request becomes part of the next formal COM code release

Code Change Request Dispositions

The disposition designations for COM code commit requests were leveraged from the [IEEE SA Balloting and Comment Resolution Process Guidelines](#)

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GOVERNANCE

GOVERNANCE.md · main · 802-COM

opensource.ieee.org/802-com/compliance/gitlab-profile/-/blob/main/GOVERNANCE.md

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Your [changes](#) have been committed successfully.

Code Change Request Dispositions

The disposition designations for COM code commit requests were leveraged from the [IEEE SA Balloting and Comment Resolution Process Guidelines](#)

Disposition Designations:


- **Accepted:** The group agreed exactly with the commit request and change proposed by the submitter.
- **Revised:** The group agrees with the commit request (at least in part) and implements a change that is not exactly what the submitter proposed.
- **Rejected:** The group does not agree to make the change, or cannot come to a consensus to make changes necessary to address the commit request - **Deferred:** The group is unable to review or implement the commit request within the specified timeline for the next release
- **Incomplete:** The commit request is missing details.

Changes to Leadership

Requirements for becoming a new maintainer (preconditions)

- Candidates must agree to adhere to all applicable projects and IEEE policy.
- Candidates must have sponsorship or endorsement of at least one other maintainer
- You must have a valid and appropriate CLA on file with the IEEE SA.
- We do not allow for more than two maintainers to be from a single company or organization and strongly take into consideration any conflicts of interest amongst our candidates.

Process for requesting to become a new maintainer

- Please email the Project Lead and the Alternate Project Lead.
- The Subject should be "[802-COM] New maintainer request: YOUR NAME" (substituting YOUR NAME with your preferred name). Include 

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IEEE SA OSCom Tier 3 Volunteer Roles & Responsibilities - Summary

- IEEE Open Source Project Lead – Kent Lusted (Adam Healey as alternate)
 - Responsible for the vitality, organization, development, evaluation, operation, security, and maintenance of an IEEE Open Source Project.
- Maintainer (Rich Mellitz , Kent Lusted)
 - Authority to commit (save changes) to the IEEE code and document repository
- Contributor
 - Any person who submits any material to an IEEE open-source Project
 - All Contributors to IEEE Open Source Projects shall submit an appropriate IEEE Contributor License Agreement
 - Every Contributor is required to obtain an IEEE account that requires agreeing to the IEEE Code of Ethics and the IEEE Code of Conduct
 - IEEE membership is not required to be a Contributor

Contributor License Agreements (CLA)

- CLA and Terms of Use on GitLab CLAs are found in the IEEE SA OSCOM “community” group at <https://opensource.ieee.org/community/cla>
 - BSD3 license <https://opensource.ieee.org/community/cla/bsd3>
 - IEEE Entity CLA for BSD-3 License
 - IEEE Individual CLA for BSD-3 License
 - IEEE Individual CLA for BSD-3 with Public Domain Appendix
- Completed License agreements go to: oscontrib@ieee.org
 - You will receive a CLA number from IEEE staff when your CLA has been accepted
 - List of signed CLAs: <https://opensource.ieee.org/community/cla/signed>
- Questions: Contact me or [Joshua Gay](#) (IEEE SA OSCOM)

Summary

- 802-COM created at <https://opensource.ieee.org/802-com/>
- Initial code commit in progress
 - “Private” repo moving to “Public” when checks are completed
- Contributors need a signed CLA
- IEEE 802.3 Working Group page created
 - See: https://www.ieee802.org/3/ad_hoc/COM/index.html
 - Email reflector in progress
- Stay tuned for more information

Useful Links

- IEEE 802.3 COM Open Source ad hoc website
 - https://www.ieee802.org/3/ad_hoc/COM/index.html
- 802-COM Open Source project
 - <https://opensource.ieee.org/802-com/>
- IEEE P802.3dj COM ad hoc website
 - <https://www.ieee802.org/3/dj/public/adhoc/COM/index.html>
- IEEE P802.3dj COM beta releases
 - <https://www.ieee802.org/3/dj/public/adhoc/COM/index.html>
- IEEE P802.3dj formal COM releases
 - <https://www.ieee802.org/3/dj/public/tools/index.html>

Backup

Proposed *Short-term* COM Code Commit Request Dispositions (WIP)

- Managed at the Task Force level via COM ad hoc for the short-term
- Proposed short-term disposition designations for COM code commit requests were leveraged from the IEEE SA Balloting and Comment Resolution Process Guidelines
 - <https://standards.ieee.org/wp-content/uploads/import/governance/revcom/guidelines.pdf>
- Disposition Designations:
 - **Accepted:** The group agreed exactly with the commit request and change proposed by the submitter.
 - **Revised:** The group agrees with the commit request (at least in part) and implements a change that is not exactly what the submitter proposed.
 - **Rejected:** The group does not agree to make the change, or cannot come to a consensus to make changes necessary to address the commit request
 - **Deferred:** The group is unable to review or implement the commit request within the specified timeline for the next release
 - **Incomplete:** The commit request is missing details.

Proposed *Short-term* COM Code Change Management Guidelines (WIP)

- Managed at the Task Force level via COM ad hoc for the short-term
- Steps
 1. Requests for changes to the COM code are sent to Kent and Rich as a “Commit Request”
 - Brief title, submitter, description of desired change, suggested remedy
 2. Commit Requests are assigned a number associated with the COM version
 - For tracking purposes
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