

The ASAM Open Model

Ben Engel
Global Technology Manager
ASAM e.V.

24. Februar 2020



Motivation

Mit Headline, Subheadline und Aufzählung

- Increased accessibility encourages adoption of standards
- Much larger community, more feedback
- Encourage sharing and collaboration in the automotive industry
- Faster development of the OpenX ecosystem through much larger pool of contributors

The ASAM Open Model

Mit Headline, Subheadline und Aufzählung

- Two levels (selection is project specific)
 1. Open Release
 - Releases are selected by the project group (via majority vote)
 - all resources, including source code, libraries and tooling are made available to the public free of charge
 - Code contributions by non-project members are not permitted
 - Bug reports or issues can be reported by non-project members
 2. Open Source
 - The entire workflow is open, every change & discussion is available to the public
 - Contributions by non-project members are permitted

Project Roles

- **Development Team**
 - Contributor – Write code/content
 - ASAM CCB – Review and merge contributions with ASAM official content. Minimum of 3 defined in proposal
 - Project lead – project coordination & alignment with ASAM
 - Service provider – Provide financed support in some capacity (e.g. content contributions, technical writing, test review)
- **Administrative Team:**
 - Assist project coordination
 - Maintain ASAM tool infrastructure

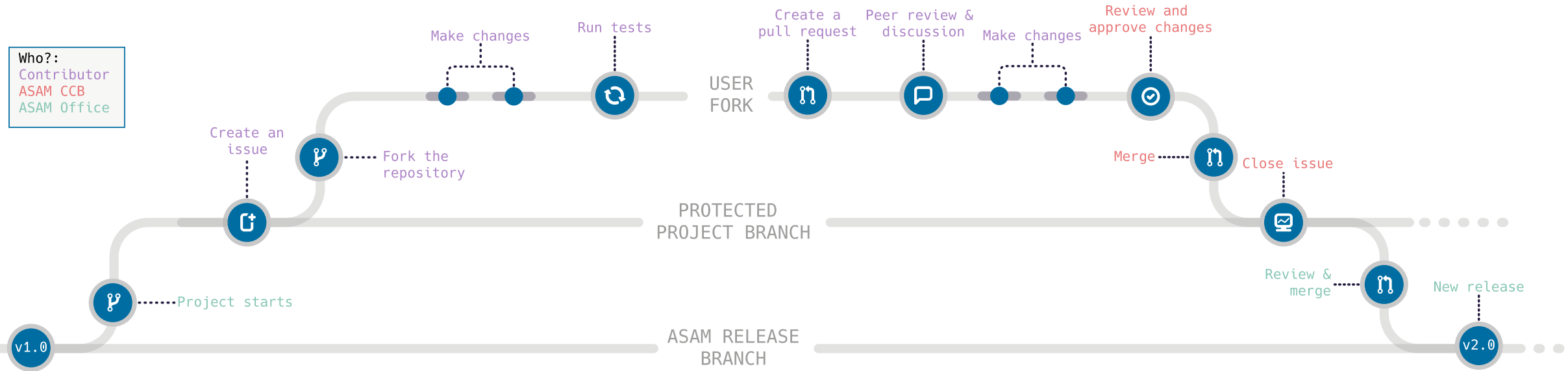
Repository Structure

Mit Headline, Subheadline und Aufzählung

- Minimum of two protected branches per project
 - Project → ASAM CCB and ASAM office can merge
 - Release → ASAM office can merge
 - Additional branches may be declared protected via majority vote of the CCB.
 - Repositories are uni-directionally mirrored (mirror is read-only but can accept merge/pull requests)
- 1. Open Release projects:**
 - ASAM-hosted platform in Frankfurt, DE (code.asam.net)
 - Project members work via branches and merge requests
 - Release branch is public
 - All other branches are visible to project members only
 - 2. Open Source**
 - Public platform – github.com/
 - Leverage existing open-source community – more accessibility and visibility to individual contributors
 - No branching by contributors
 - Development work is done via private forking and pull requests
 - All branches on repository are public

Development Methodology

Best Practice Guidelines



Quality & License Guidelines

- Automated tests
 - Code independent documentation → Automated builds of content must succeed
 - Code & code dependent documentation
 - Project specific details in project proposal and subject to TSC approval
- Continuous review by project team and if open source, the public
- It is expected that contributors ensure, to the best of their knowledge, that their contributions are correctly licensed
 - In the case that this cannot be guaranteed, it is expected that the contributor flags the contribution for detailed review by CCB & ASAM office
- License and compliance checks (e.g. Fossology, ...) on pull/merge requests to ASAM repositories
- Inclusion of third-party dependencies or libraries subject to approval by ASAM office

Legal Framework

Mit Headline, Subheadline und Aufzählung

- ASAM Member Contributor Agreement (MCA)
 - Optional
 - This will allow companies to designate a list of contributors authorized to contribute on their behalf
- **For each contribution:**
 - Must be signed off with the contributor's real name and email address (indicates acceptance of the DCO).
 - For individuals submitting on behalf of an organization (i.e. their employer), this also indicates acceptance of:
"I am authorized to submit this contribution on behalf of the organization holding the copyright"
 - **Contributors submitting for an organisation that has an ASAM Member Contributor Agreement (MCA)**
 - Commits must include the following in the commit message:
"Provided under the terms of the ASAM Member Contributor Agreement (MCA)"
 - All contributions are licensed under the same license as the project license

Project Licensing

Mit Headline, Subheadline und Aufzählung

- Project specific (e.g. ASAM OSI → MPL 2.0)
- Recognised open-source licenses only (see [here](#))
 - For the future, we might have an ASAM-approved list of open-source licenses

ASAM Open Tooling Proposal

Mit Headline, Subheadline und Aufzählung

- Many tools (e.g. checkers, visualizers, etc.) directly support the adoption and training of ASAM standards
- In future, ASAM will provide a platform for hosting **non-normative**, open-source tools complimentary to ASAM standards
 - Tool submission to the platform via “tool proposal” subject to approval of CG:Sim
 - This should include a tool roadmap (to be presented to CG:Sim)
 - Any tools can be used as the basis for further development projects, as defined in the general ASAM project processes.
 - ASAM will not become a software maintainer, nor will it guarantee for the tooling quality

Dr. Klaus Estenfeld
Managing Director, ASAM e.V.

Phone: +49 151 64631204

Email: klaus.estenfeld@asam.net

Project Stages

Mit Headline, Subheadline und Aufzählung

1. Proposal
2. Initiation
3. Development
4. Release

Project Roles

Development Team

(mandatory, staffed by members and paid service provider, roles are non-exclusive)

- **Contributors**
 - Develop software, i.e. write source code and tests.
 - Must have agreed to ASAM Contributors Agreement
- **Committers / ASAM Change Control Board (CCB)**
 - Review contributions
 - Merge source code and tests into the main branches.
 - Named in the project proposal and extendable by majority vote of existing committers
 - Must have agreed to ASAM Committers Agreement
- **Project Leader**
 - Elected by and originating from the group of **project members**.
 - Project management, meeting organization and alignment with ASAM office
 - Named in Project Proposal

Service Provider

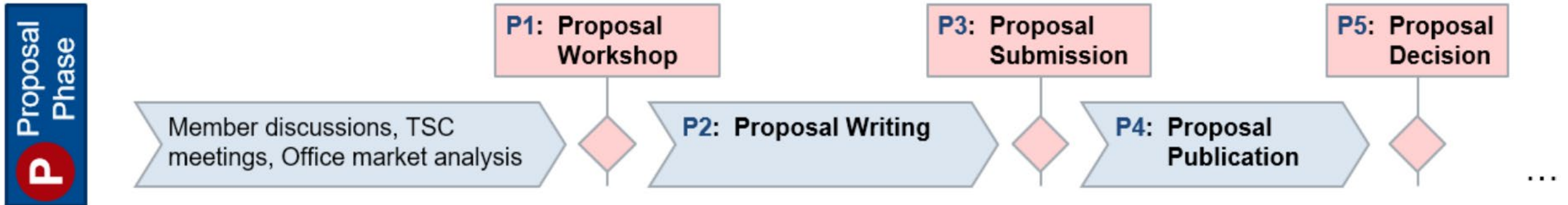
- Develop and carry out tests.
- **Technical documentation**
- Optional and requested in the project proposal.
- Managed and monitored by the project leader & ASAM office.

Project Roles

Administrative Team (mandatory, staffed by the ASAM office)

- **Legal Reviewer**
 - Reviews and provides clearance for the use of publicly licensed, third-party or initial-contribution source-code.
 - Reviews legal documentation in source code and legal documents distributed with source code.
 - Resolves legal issues.
 - May use a lawyer specialized in IT-law as an external resource.
- **IT Administrator**
 - Setup, configures and maintains tools for use in projects.
 - Those are server-based tools.
 - Responsibility does not include tools installed on project member's personal computers.
- **Business Assistant**
 - Carries out public calls for offer, commissioning and payment of service providers.
 - Other commercial and administrative tasks.

Proposal



Initiation

- The process starts from scratch (no software) or with an initial software contribution from project members.
- A software repository is setup by the IT administrator. Initial software contributions are pulled into the master branch of the repository.
- A legal review ensures that the initial software contributions can be used and further distributed in accordance with the project's license terms
- Initial development ensures that the software can be tested, can be built and is deployable. The term 'build' in the context of ASAM includes software and documentation.

Release

- Release review:
 - Public review
 - As defined in the ASAM project handbook
 - Final review of all deliverables (editorial & technical)
- Voting
 - Technical release: Project members
 - Public release: 1) CG:Sim 2) TSC

