

Becoming a contributor Yanzhao Zhang edited this page Apr 1, 2024 · 48 revisions

`This document provides general information about the ways of contribution to the SONiC Community. Joining the SONiC Community

SONiC community welcomes new members to join this open source community project and contribute for SONiC development.

Please get familiar with our governance document

Members are expected to follow the code of conduct and agree.

Members are welcome to join the mailing list and start attending the weekly

Members are welcome to join SONiC community meetings. Please reserve the space

Members are welcome to join the sub work groups and contribute.

Members shall go through the SONiC webpage and SONiC Wiki and familiarize

Legal

We welcome everyone to contribute to SONiC project. Individual Contributor License Agreement(ICLA) is required (Corporation CLA is not supported) before you make a contribution to the SONiC open source project.

Please follow the process and sign the ICLA [here](#). You will get the sign link when you submit your first PR. Thanks for your support. [How to Contribute](#)

Following are the way of contributions and its process for the community.
Technical Contribution

Community members or the SONiC partners are welcome to contribute in all of the following development process. The ways in which the members can contribute are explained in detail in the following sub sections.

Development

Reviews

Testing

Bug Fixing

Presentation and demos

Documentation

Development

Members can contribute by owning and develop a feature for SONiC or enhance an existing feature/sub-features. Members have to inform the community about ownership of feature development/enhancement and ensure that the feature is added to the roadmap. Members should also provide a rough plan about the design document availability date and code availability date in advance and also identify reviewer(s). Members shall do

the design, coding & testing by following the process explained in this document and ensure that the feature is merged before the release. Reviews

Members can contribute by owning up the reviews for the design documents, code, test cases/scripts and any documents that are prepared for SONiC. Members can join the design review meetings and provide review comments during the discussion and/or provide the review comments on the pull request raised by the authors. Members are welcome to complete the review cycle on time so that the features planned in the roadmap are completed before the release. Testing

Members are welcome to test SONiC in their own platforms and raise issues in the appropriate SONiC repositories. Members can also contribute by reviewing the existing test cases and adding new test cases to the sonic-mgmt repository. Bug Fixing

Members are welcome to fix the bugs present in SONiC. They are requested to join the issue triage sub group and contribute for root cause analysis as well as in review. Presentation and demos

Regular workshops and OCP meetings are happening for SONiC. Members are welcome to participate and contribute for technical presentation and demos that can be used during the workshop. Partners are welcome to set up booths at the OCP summits with their platforms running SONiC. Documentation

Members are welcome to review the existing documents in SONiC and also help in enhancing the existing technical documents like Config guide, CLI guide, Wiki pages, etc., Members are welcome to capture the SONiC deployment scenarios as well as the use cases in a document and add it to the SONiC Wiki library.

High level design documents <https://github.com/sonic-net/SONiC/tree/master>
Test plans <https://github.com/sonic-net/sonic-mgmt/tree/master/docs>
SONiC release notes <https://github.com/sonic-net/SONiC/tree/master/doc>
SONiC command reference <https://github.com/sonic-net/sonic-utilities/blob/>
SONiC YANG models <https://github.com/sonic-net/sonic-buildimage/tree/master>
SONiC YANG model guidelines <https://github.com/sonic-net/SONiC/blob/master>
Technical Charter <https://github.com/sonic-net/SONiC/blob/master/SONiC%20F>

Development Process Design

Create the file as MD (markdown) format by using template <https://github.com/sonic-net/SONiC/blob/master/doc/TEMPLATE.md>
Send as a pull request to <https://github.com/sonic-net/SONiC/pulls>;
Go through community design review;
Once approved, the doc will be merged to <https://github.com/sonic-net/SONiC/blob/master/doc>
The doc will be published on SONiC Wiki;

Code

Code the feature and raise a pull request
Pull request for the code should be raised from appropriate repository.
Available repository for code are sonic-buildimage, sonic-utilities, sonic-mgmt

Members should inform the community if a new repository is created the feature code has to be in file format such as python, C/C++, ruby, etc., Go through community for code review. Once approved, the code will be merged to <https://github.com/sonic-net/SONiC>

Repositories Members should pull a separate private branch from the master branch in an appropriate repository. There are various code repositories available such as sonic-buildimage, sonic-utilities, sonic-swss, sonic-build-system etc. Members should ensure that the owned feature is updated in the right repository to add the development code and its corresponding HLD document.

Release Process
The community will follow the roadmap for release and would be updated periodically. The release tracking will be followed for all the ongoing features on the roadmap. A member should ensure the active involvement in the discussion. The release tracking sheet should be updated periodically to ensure the status. Release notes will be issued upon successful release for the completed features. Any feature that is not completed before the branching will be considered for the next release. For further details about the SONiC release train [click here](#)

Pull Request Process

Find below the steps to raise a Pull Request for the HLD document as well as for the development Code.

Fork the repository in which you want to make the changes. For example, if you want to make changes to the sonic-buildimage repository, fork it from <https://github.com/sonic-net/sonic-buildimage>.
Clone your forked repository and go to the base directory. Example: `https://github.com/Your_Username/sonic-buildimage.git`
Create a private branch in your forked repository. Use simple meaningful branch names. Example: `git branch my_branch`
Do "push origin". Example: `git push origin my_branch`
Do necessary changes in the files. You can add new files, or delete old files.
Do "git status" to check the list of files that are added/modified/deleted.
Do "git add ." to add all the changes for commit.
Do `git commit -m "your explanation about the change"`. Example: `git commit -m "Add new feature"`
Push the changes to your forked repository. This will push all your changes to your forked repository.
Go to your repository in the webpage (example: https://github.com/Your_Username/sonic-buildimage).
Ensure to add label/tag for the feature raised. Example - PR#2174 where, G is for General.
Provide all details in the pull request and raise it.
Follow-up with community for review. Address review comments and follow-up.
Use HLD PR to track all the related code PRs, if no HLD PR, please create one.