# ALLSEEN ALLIANCE

# AllJoyn™ Software Framework: enabling the Internet of Everything

## Contributing Code

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# Overview

- **Getting set up**

- **Contacting other AllSeen Alliance participants**

- **Working groups**

- **Code changes and commit messages**

- **Code review and approval process**

# Becoming an AllSeen Alliance Contributor

1. **Review the AllSeen Alliance IP Policy**
   - Read the IP Policy at https://allseenalliance.org/allseen/ip-policy
     - The IP Policy includes information about the AllSeen Alliance's use of the ISC License
   - A Developer's Certificate of Origin is required for all contributions
     - Full text of the DCO is at https://git.allseenalliance.org/gerrit/static/signoffrules.txt
   - You or your employer may choose to complete, sign, and send an *AllSeen Alliance Contribution Agreement*, available on the IP Policy page

2. **Register**
   - Create an individual AllSeen Alliance account at https://allseenalliance.org/user/register
   - Your Alliance credentials will allow you to upload commits, participate in code reviews, use the bug tracker, and edit wiki pages. Without an Alliance account, many of these services are read-only.

# AllSeen Alliance Servers

Git and Gerrit for version control and code review

- [https://git.allseenalliance.org/](https://git.allseenalliance.org/) for code review
- [https://git.allseenalliance.org/cgit/](https://git.allseenalliance.org/cgit/) to browse repositories

Jira for bug tracking

- [https://jira.allseenalliance.org](https://jira.allseenalliance.org)

Wiki for contributor documentation

- [https://wiki.allseenalliance.org](https://wiki.allseenalliance.org)

Mailing lists for communication

- [https://lists.allseenalliance.org](https://lists.allseenalliance.org)

# Working Groups

**People**

- **Committers: Can approve commits for Working Group Projects in gerrit**
- **Chair: One of the committers, elected from the group, to represent the Working Group on the Technical Steering Committee**
- **Contributors: Any registered AllSeen Alliance user who interacts with the group**

**Code**

- **Projects: The set of git repositories maintained by the working group**

The Working Group wiki pages at https://wiki.allseenalliance.org/ list the group members, projects, and mailing list addresses.

To ask questions or start a discussion, email the working group email list.

allseen-baseservices@lists.allseenalliance.org        allseen-cc@lists.allseenalliance.org

allseen-core@lists.allseenalliance.org        allseen-devtools@lists.allseenalliance.org

# Creating Code Changes

**Check out the AllSeen code**

- **Option 1: Use 'repo'**
  - `$ repo init -u ` [https://git.allseenalliance.org/gerrit/devtools/manifest](https://git.allseenalliance.org/gerrit/devtools/manifest)
  - `$ repo sync`
  - This checks out every active AllSeen Alliance repository
  - Gerrit commit hooks are automatically set up
  - Works on Linux and Mac, but not Windows

- **Option 2: Clone individual repositories**
  - `$ git clone https://git.allseenalliance.org/gerrit/core/alljoyn core/alljoyn`
  - You must set up commit hooks in each cloned repository
    - `$ wget http://git.allseenalliance.org/gerrit/tools/hooks/commit-msg -O .git/hooks/commit-msg`
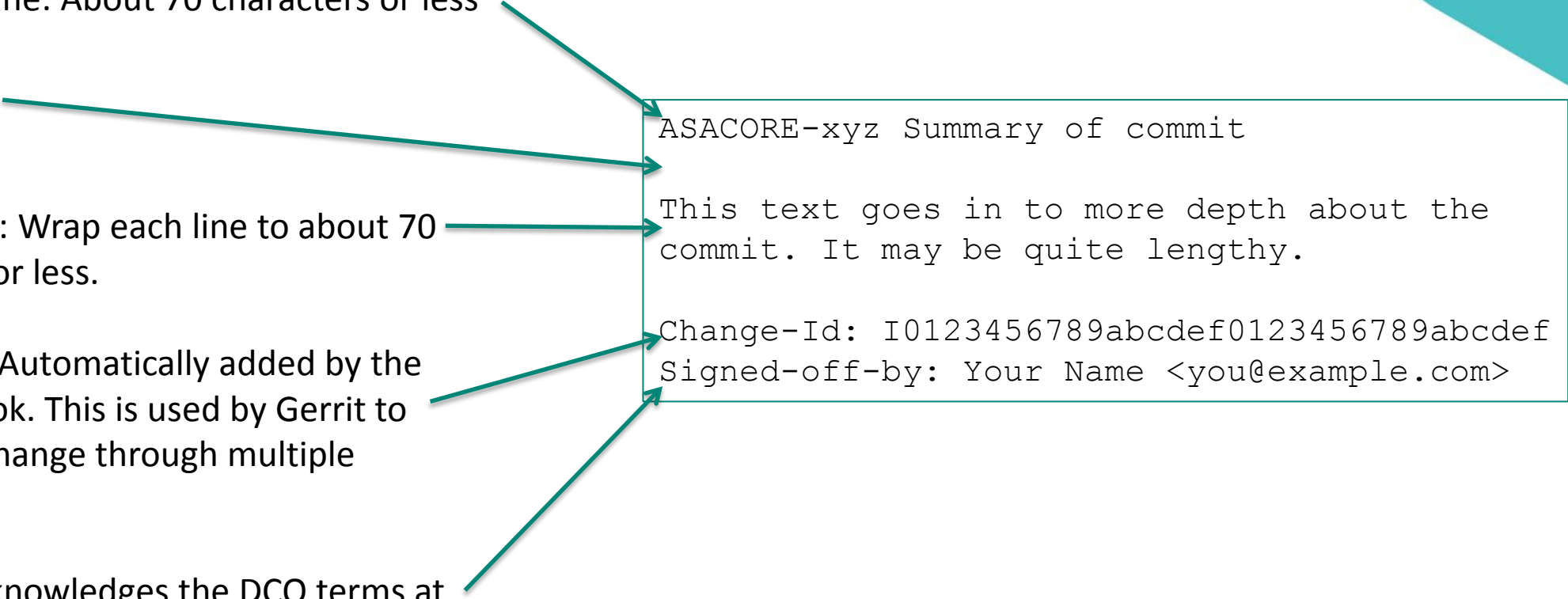
# Commit Messages

Summary Line: About 70 characters or less

Empty Line

Description: Wrap each line to about 70 characters or less.

Change-Id: Automatically added by the commit hook. This is used by Gerrit to identify a change through multiple revisions

Signoff: Acknowledges the DCO terms at
https://git.allseenalliance.org/gerrit/static/signoffrules.txt

```
ASACORE-xyz Summary of commit

This text goes in to more depth about the
commit. It may be quite lengthy.

Change-Id: I0123456789abcdef0123456789abcdef
Signed-off-by: Your Name <you@example.com>
```

# Code Review

**Upload changes to git.allseenalliance.org**

- **Repo**
  - `$ repo start <localbranch>`
  - (make changes and commit)
  - `$ repo upload .`
- **Git**
  - (commit changes)
  - `$ git push origin HEAD:refs/for/master`

**Upload changes to git.allseenalliance.org**

- **Your change will be listed at https://git.allseenalliance.org/gerrit/#/q/status:open,n,z**
- **A committer from the project's working group must give your change a +2 (Approved) review in order for the change to be merged.**
- **Any other contributor can review and give a +1 "Looks good to me" or -1 "I would prefer that you didn't submit this" reviews.**
- **Please watch for notification email from gerrit@allseenalliance.org or monitor your unmerged changes**

# Approval Guidelines

**Working group committers consider many factors when reviewing changes**

- **Correctness of algorithms and logic**
- **Maintainability**
- **Bugs or possible bugs**
- **Suitability of code for open source**
- **Adherence to the Coding Guidelines**
  - [https://wiki.allseenalliance.org/develop/coding_standards_guidelines](https://wiki.allseenalliance.org/develop/coding_standards_guidelines)

**Approved changes become part of the AllSeen Alliance code base**

# Thank You!

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