

# The Eclipse Development Process for Committers

The Eclipse Development Process

[eclipse.org/projects/dev\\_process](https://eclipse.org/projects/dev_process)

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# Agenda

- Definition of an Eclipse Project
- The Eclipse Development Process
- Working as a Committer
- Releases and Reviews
- Project Management Interface
- Other Stuff You Should Know

# What is an Eclipse Project?

# TL;DR

## An Eclipse Project...

- Conforms to the EDP and Eclipse IP Policy;
- Calls itself an “Eclipse Project” and conforms to Eclipse Foundation Branding Guidelines;
- Operates independently from any specific vendor;
- Uses infrastructure provided by the Eclipse Foundation for **core content**

# Eclipse Development Process

Defines...

- The Open source rules of engagement
- Governance structure and definitions
- Relationships and roles

Provides a framework for project lifecycle management

- Releases and reviews
- Interaction between projects and the community

# The Eclipse Intellectual Property Policy

The Eclipse IP Policy is concerned with establishing practices to mitigate legal risks associated with building products based on Eclipse software.

- Licensing
- Copyright
- Provenance tracking

# Trademarks and Branding

The Eclipse Foundation holds all project trademarks on behalf of the community.

- Trademarks must be managed to remain valid
- Cycle of value
  - The Eclipse brand adds value to project trademarks
  - Project trademarks add value to the Eclipse brand

# Source Code is Core Content

Source code must be *actively developed* on infrastructure provided by the Eclipse Foundation.

- Official project Git repositories must be the central authority
- Committers must push regularly to official project repositories
- Test code is source code

Level playing field; open to all comers.



# Documentation is Core Content

Documentation is a first-class project resource.

- Documentation maintained using the same rules as source code
- Must be deployed on EF infrastructure
  - EF website, downloads, documentation server, ...
- May *also* be deployed elsewhere
  - e.g. Community website, ReadTheDocs

# Issues/Bugs/Tickets are Core Content

Issues must be tracked using infrastructure provided by the Eclipse Foundation.

- Bugzilla
- GitHub Issues

# Project Dev List is Core Content

The Project Dev list is the main means of contact between the Eclipse Foundation (staff and automatic services) and project team.

- Formal EF process must happen on the devlist
  - practical: votes, etc.
- Other project communication must be captured in a public channel

# Non-Core Content

Other content must be transparent and open but not necessarily owned/operated by the EF

- User forum discussions, presentations
- Builds and downloads
- Examples, blogs, social media handles, ...

# “The Keys” Must be Kept Safe

Core infrastructure must be immune from domination by any single individual or organization.

- The EF must hold the keys for core infrastructure
- Pick up and carry on

Ownership of non-core infrastructure must be shared

- Must be able to survive departures of team members

- Open source rules of engagement
- Governance, structure, definitions, reviews
- General framework for projects
- Day-by-day development rules/process is defined by the project

# The Eclipse Development Process

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# Open Source Rules of Engagement

- Transparent
  - Public, and easily accessible
- Open
  - Everyone participates with the same rules
- Meritocratic
  - Earn your way in

# Vendor Neutrality

- Open to all comers, including competitors!
- Vendor neutral resources and services
  - Project website
  - Issue tracker
  - Mailing lists and forums
  - Downloads
  - VCS/Git
- Committers must work in the open



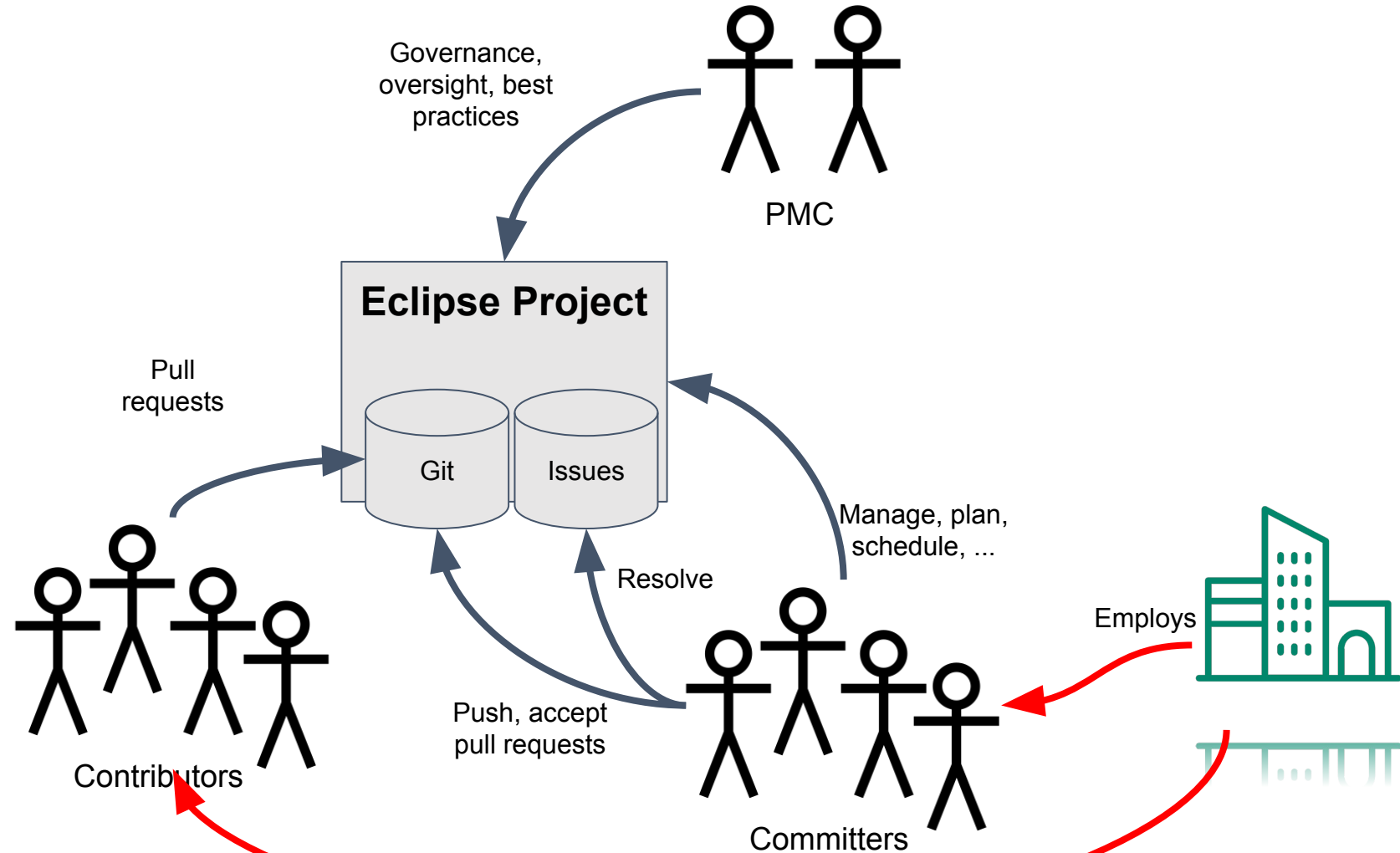
# Three Communities

- Users
  - Users are, well... users
- Adopters
  - Individuals, groups, organizations
  - Build products, extensions, based on your project
- Developers
  - Contributors, committers

# Writing code is fun, but...

- Open source rules of engagement
  - Transparency, openness, meritocracy
- Have project-specific diversity goals
  - Building diversity takes work
- Actively court contributors
- Be responsive when they do come
  - “Kill with kindness”

# Who's Who?



# Project Leadership

- Project lead(s)
  - Management, technical leadership
  - Primary liaison with PMC and EMO
- Project Management Committee (PMC)
  - Technical approval of IP contributions, releases
  - Project oversight, general responsibility
- EMO
  - Overall responsibility to manage processes and maintain services
  - Eclipse Foundation Staff, Architecture and Planning Councils

# Working as a Committer

# Committers and Contributors

- Committers
  - Have write access to project resources (Git repos, downloads, etc.)
  - Must complete committer paperwork
    - Individual or Member Committer Agreement (ICA/MCA)
- Contributors
  - Contributions must be accepted by a committer
  - Must electronically sign the Eclipse Contributor Agreement (ECA)
  - May be invited to join the project as a committer

# Eclipse Contributor Agreement

- Contributors must digitally sign the ECA
  - Confirms that contributor agrees to comply with the DCO
- Developer's Certificate of Origin
  - You have authored 100% of the content
  - You have the necessary rights
  - Provided under the project license(s)
  - Your contributions are public
- Contributors must “sign-off” on each commit

<https://eclipse.org/legal/ECA.php>

# Contributions via Git

```
commit d6cf52411377a039fc2906378711091a26e932cb
```

```
Author: Some Body <somebody@somewhere.com>
```

```
Date:   Wed May 29 16:17:36 2013 +0200
```

```
    [123456] Hide unwanted common navigator action bar items
```

This change hides unwanted 'Link with Editor' and 'Customize View...' items from the local toolbar and the view menu.

See bug 409722 for restoring the feature of activating the editor when changing the selection using 'Link with Selection'.

```
Bug: https://bugs.eclipse.org/123456
```

```
Change-Id: Ia2bd5091303d1b0a738157effc24e4dac5a7d0c7
```

```
Also-by: Some Bodyelse <somebodyelse@nowhere.com>
```

```
Signed-off-by: Some Body <somebody@somewhere.com>
```



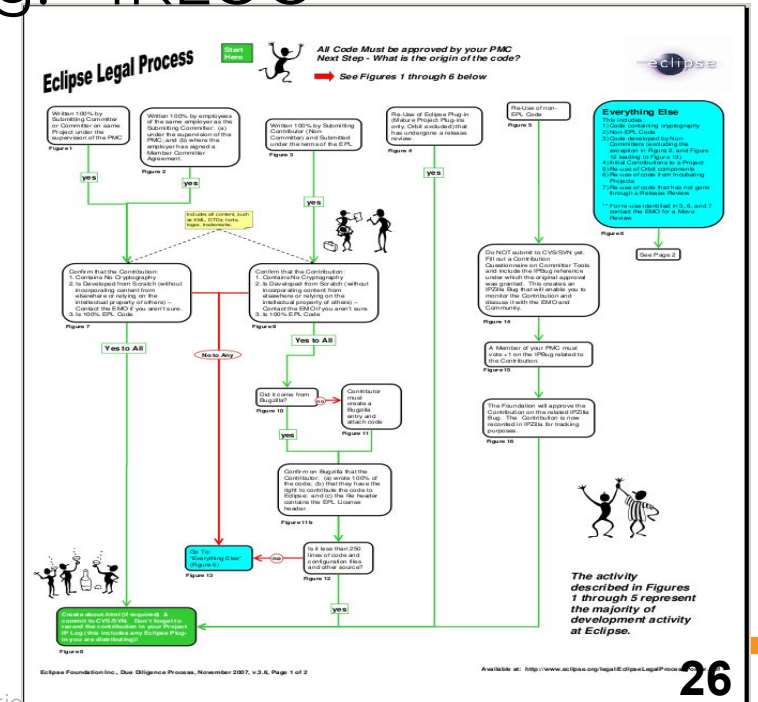
# Handling Git Contributions

- Git/Gerrit will check for ECA/sign-off
- GitHub will warn if ECA or sign-off is missing
- Engage with IP Team if required, e.g.
  - Contribution has >1 KLOC
  - You're not sure of the provenance
  - Not certain that the ECA/DCO terms are met

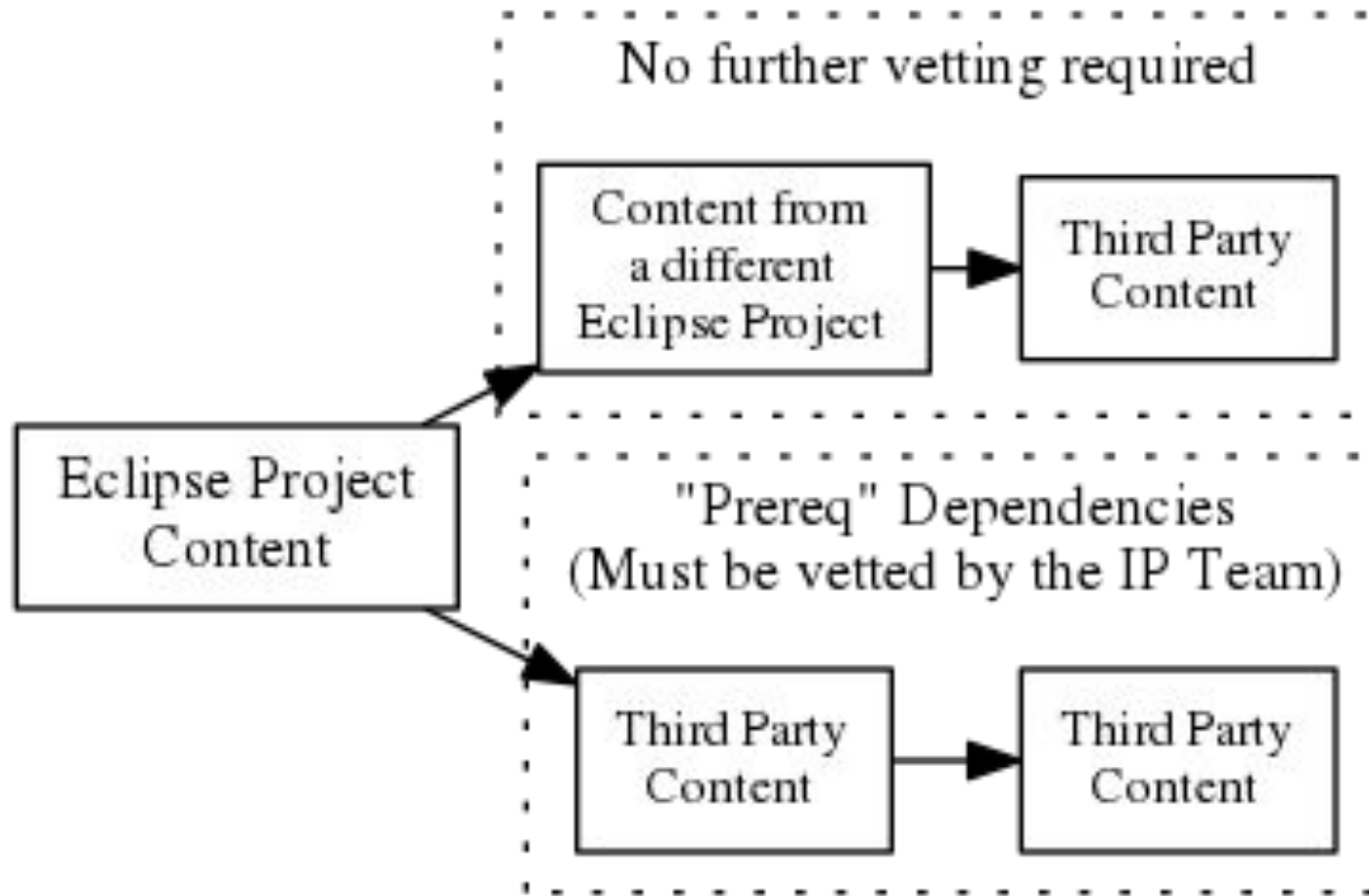
# Intellectual Property Due Diligence Process

- All code in project VCS or downloads
  - All third-party libraries must be vetted by the IP Team
  - Initial contribution
  - Many contributions must be vetted as well, e.g. >1KLOC

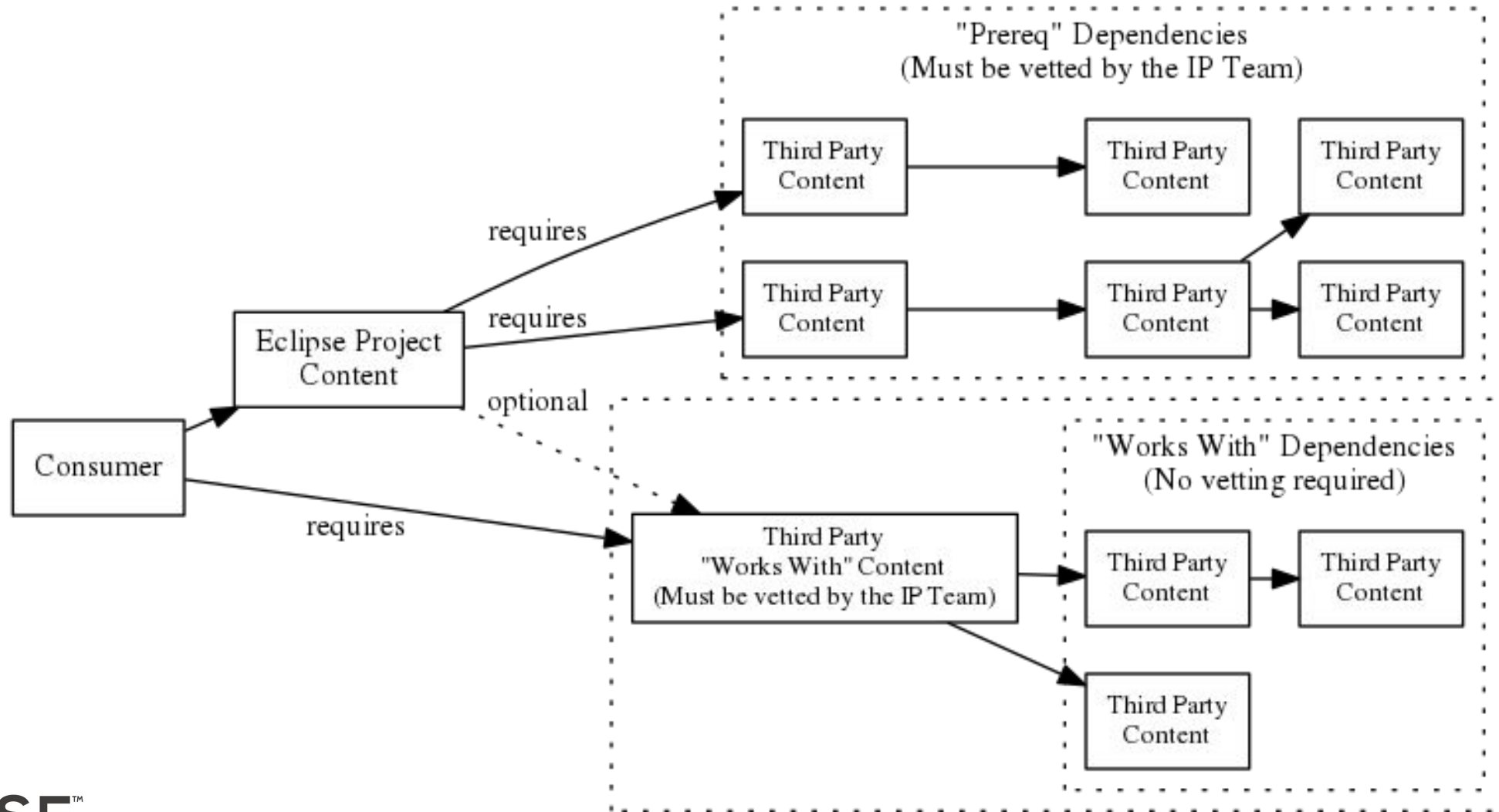
<http://eclipse.org/legal/EclipseLegalProcessPoster.pdf>



# Dependencies



# Prerequisites and "Works With"



```
git.eclipse.org/project.git
```

```
|— LICENSE [.md]  
|— NOTICE [.md]  
|— CODE_OF_CONDUCT [.md]  
|— CONTRIBUTING [.md]  
|— ...
```

## Legal (and Other) Documentation

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# Contribution Guide

- Git, Gerrit, GitHub, ...
- Issue tracking (Bugzilla)
  - “Help wanted” issues
- Project plan
- How to build
- How to engage (mailing lists, forums, issues)
- Spend time with the community

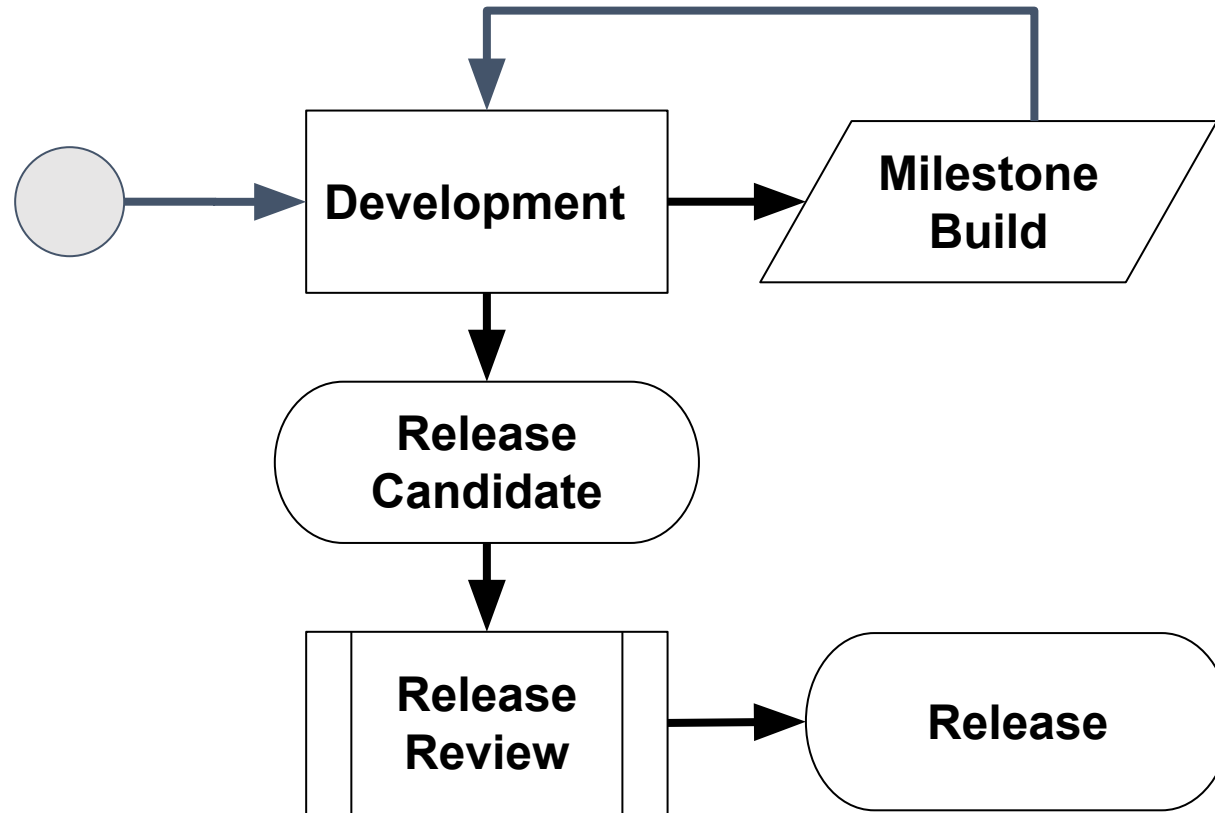
# Keep Project Information Up-to-date

- Project and release metadata, website, downloads
- Project code must be buildable
- Maintain a contribution guide
- Keep project communities informed

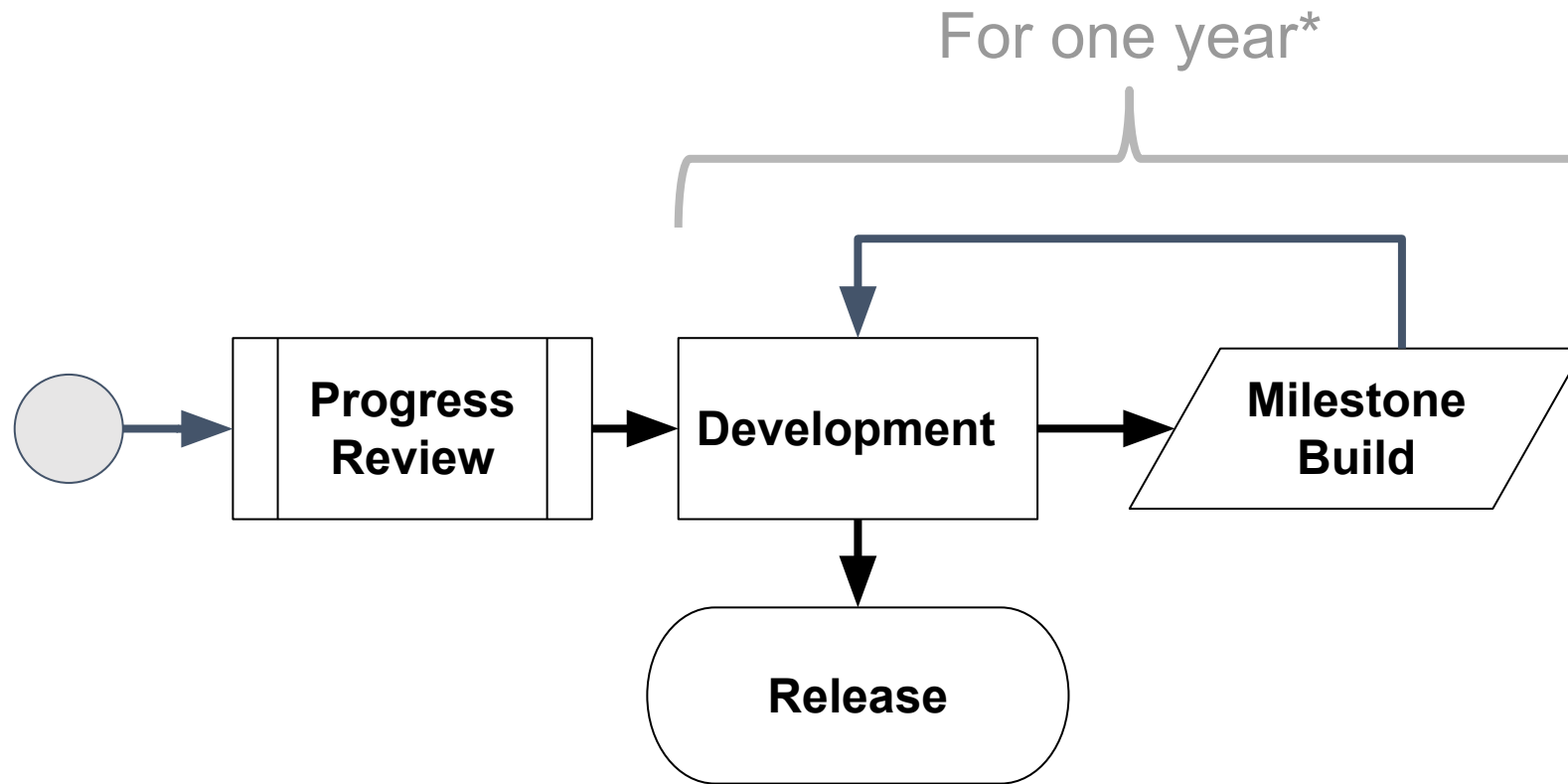
# Releases and Reviews



# Releases (Today)



# Releases (Soon)

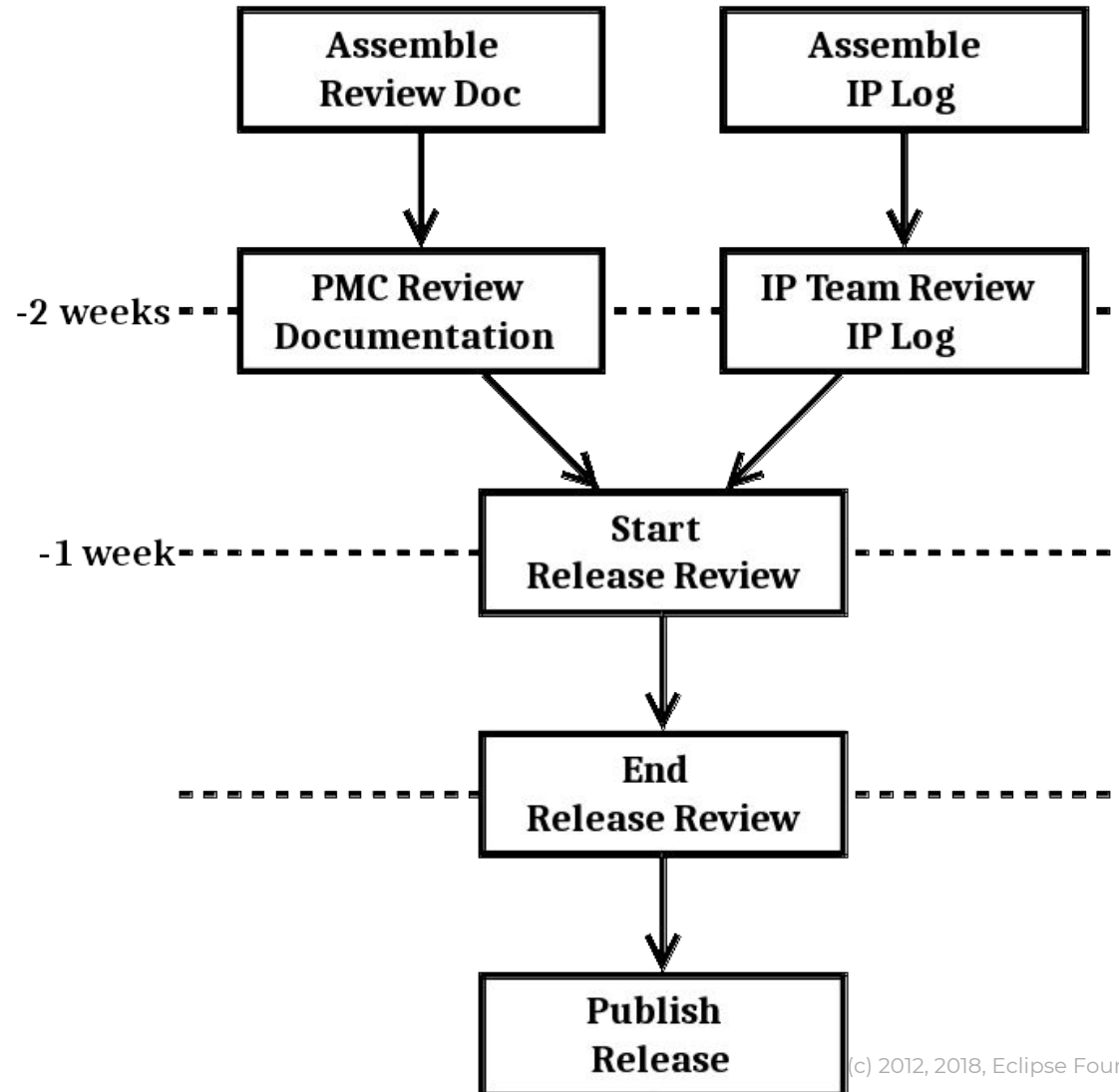


- \* The IP Policy must be observed. All intellectual property included in a Release must be resolved by the IP Team.

# Releases

- Major/minor releases
  - Progress or Release review
  - IP Log approval (as part of the review, not for each release)
  - Plan to spend time planning/documenting release
- Service/Bugfix-only releases
  - No review
  - No IP Log approval

# Progress & Release Review



# Project Management Interface (PMI)

# Project Metadata

- Used for discovery and drives various processes and systems
  - e.g. IP Log generator, notices to members and committers
- Description, scope, logo, technology type
  - “Elevator pitch”
- Source code, builds, issue tracker
- Releases, relationships to other projects, build technologies

# Committer Tools

HOME / PROJECTS / ECLIPSE TECHNOLOGY / ECLIPSE EGIT: GIT INTEGRATION FOR ECLIPSE

## Eclipse EGit: Git Integration for Eclipse

Overview Downloads Who's Involved Developer Resources Governance Contact Us Edit

Eclipse EGit is the Git Integration for Eclipse. **Git** is a distributed SCM, which means every developer has a full copy of all history of every revision of the code, making queries against the history very fast and versatile. The EGit project is implementing Eclipse tooling for the **JGit** java implementation of Git.


This project is part of **Eclipse Photon, Eclipse Oxygen, Neon, Mars, Luna, Kepler, Juno, Indigo, and Helios.**

### Licenses:

**Eclipse Public License 1.0**

### Latest Releases:

From December 21st, 2016 to June 27th, 2018

Name	Date	Review
<b>5.0.0</b>	2018-06-27	
<b>4.10.0</b>	2017-12-30	
<b>4.9.2</b>	2017-12-15	

### COMMITTER TOOLS

The following commands are available to project committers:

#### Elections

- Nominate a Committer
- Nominate a Project Lead

#### Intellectual Property

- Create a Contribution Question...
- Generate IP Log
- Review downloads

#### Communication

- PMC Mailing list
- Send Email to the PMC...
- Send Email to the Dev List...

#### Releases

- Create a new release

# Other Stuff You Should Know



# IP Terms

- Initial Contribution
- Contribution Questionnaires (CQs)
- Piggyback CQ
- IPZilla
- Parallel IP

# IT Services

- Connect with the Webmaster for IT support
  - Git repositories, builds, downloads
  - Permissions
- Connect via Bugzilla (Community)
- [webmaster@eclipse.org](mailto:webmaster@eclipse.org)

# Eclipse Project Handbook

- All-in-one guide for project leads and committers
- Starting a new project
- Forge-specific variations:
  - <https://www.eclipse.org/projects/handbook>
  - <https://www.polarsys.org/documentation/handbook>

# Incubation Mailing List

- Connect with other incubating projects
- Connect with mentors
- <http://dev.eclipse.org/mailman/listinfo/incubation>
- [incubation@eclipse.org](mailto:incubation@eclipse.org)

# Things that We Didn't Talk About

- Committer and Project Lead Elections
- Graduation from Incubation Phase
- Committer Paperwork
- Starting an open source project
- IP Logs

# Links

- Eclipse Development Process
  - [http://www.eclipse.org/projects/dev\\_process](http://www.eclipse.org/projects/dev_process)
- Eclipse Project Handbook
  - <http://www.eclipse.org/projects/handbook>

# The End