Eclipse Committer Bootcamp

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Eclipse Committer Bootcamp

Wayne Beaton - Open Source Projects
emo@eclipse.org

Sharon Corbett - Intellectual Property
emo-ip-team@eclipse.org

Denis Roy - Information Technology
webmaster@eclipse.org
# Eclipse Foundation Staff at EclipseCon

<table>
<thead>
<tr>
<th>Time</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
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<tbody>
<tr>
<td><strong>Morning</strong></td>
<td>Andrew Membership, Working Groups</td>
<td>Matt IT</td>
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<tr>
<td>Break</td>
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<td>Gaël Membership, Working Groups</td>
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Eclipse Committer Bootcamp

Part I: Exploiting the Eclipse Development Process for Fun and Profit

http://eclipse.org/projects/dev_process
Agenda

• Open source rules of engagement
• Projects, Code, and Resources
• Who's Who
• Project Management Infrastructure
• Quiz
The Eclipse Development Process

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

- Transparent
- Open
- Meritocracy
Transparent: Invite Participation

- Project discussions, minutes, deliberations, project plans, plans for new features, and other artifacts are open, public, and easily accessible
  - Use “dev” list for project-related discussion
  - Capture all work in Bugzilla records
Open: Accept Participation

- The same opportunity to all
- Everyone participates with the same rules
- There are no rules to exclude any potential contributors
  - Including direct competitors in the marketplace
Meritocracy: Earn your Way in

- The more you contribute the more responsibility you will earn
- Leadership roles in Eclipse are also merit-based and earned by peer acclaim
Three Communities

• Users
  - Users are, well... users

• Adopters
  - Individuals, groups, organizations
  - Build products, extensions, based on your project

• Developers
  - Contributors, committers
Provisioning

- Submit provisioning request
- IP Team handles committer paperwork
- Webmaster team provisions project resources
Projects, Committers, and Resources
Some Sharing

- A parent project may share:
  - Builds, Downloads
  - Website, mailing lists, and forums

- May not share:
  - Committers
  - Repositories, Bugzilla
Leadership Chain

Board of Directors

EMO(ED)

Project Management Committee

Project Leads
Project Members

• Project Management Committee (PMC)
  – Oversight, IP process, various approvals

• Project Lead(s)
  – Leadership. Duh.

• Committers
  – Eclipse IP Due Diligence Process
  – Eclipse Development Process
Eclipse Management Organization (EMO)

- Eclipse Foundation Staff
- Architecture Council
- Planning Council
- EMO (ED): Executive Director
- Email: emo@eclipse.org
Architecture Council

- Stewards of the Eclipse Development Process
- Architectural oversight
- Best practices
- Mentors for new Eclipse projects
  - Use your mentors!
Planning Council

- Simultaneous Release
- Cross-project planning
- Architectural issues
- User interface conflicts
- Other coordination and integration issues
Project Metadata

- Project id
  - e.g. technology.egit, soa.winery, eclipse.jdt.ui
- Description, scope, logo, technology type
- Releases
- Relationships to other projects
- Build technologies
Project Metadata: The PMI

http://projects.eclipse.org/projects/<projectId>
Project Metadata

- Description
  - Present tense
  - “elevator pitch”
- Scope
- Logo
- Categorization
- Links
- More...
PMI: Categorization

**CATEGORIZATION, RELATIONSHIPS, AND TAGS**

**Technology Types**
- [ ] Language
- [ ] Machine-to-Machine
- [ ] Modeling
- [ ] OSGi
- [ ] Runtime
- [ ] Testing
- [x] Tools

Select the types of technology *produced* by the project.

**RELATED PROJECTS**

Specify any projects that are related to this project. What "related" means is really up to you. The values you specify here will rendered on the project page as hyperlinks.

[Add another item]
PMI: Source Code

- Contribution Message
- Bugzilla
- Source Repositories
PMI: Build

- Description
- Build Technologies
- Documentation
- Links
PMI: Downloads

- “Big Button” URL
- Message
- Marketplace
- Update sites
- Downloads
PMI: Releases and Reviews

- Releases and reviews have their own records
Defining a New Release

Create a new release. **Note that a review is required for all major and minor releases.** Please review the release cycle documentation.

**Release date**

- Mar 12 2014

**Name**

The release name must contain major and minor version numbers, and may contain a service number and patch information; e.g. "5.6 (Kepler)", "1.0.1".

Create
Create and edit

Eclipse SCADA committers

The following commands are available to project committers:

**Contributor Agreement**
- Validate Contributor CLA

**Intellectual Property**
- Create a Contribution Questionnaire
- Generate IP Log (project)
- Review downloads

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

**Releases**
- Create a new release
Release Metadata

• Description
  – Present tense
  – “Elevator Pitch”
• Release Date
• Release Type (major, minor, service)
Theme Items

Name
1.0.0

Description
Implement and stabilize a first version of the described features including a defined API.

Committed
https://bugs.eclipse.org/bugs/buglist.cgi?list_id=5533390&classification=Modeling&query_format=advanced&bug_status=REOPENED&bug...

A Bugzilla search URL that identifies the committed items for this theme in this release.

Themes:

1.0.0

Implement and stabilize a first version of the described features including a defined API.

Committed Items

Many ComposedAdapterFactory instantiations without disposal [368340] (target milestone: 1.0.0)

Update Site is missing dependencies to features [381403] (target milestone: 1.0.0M4)

Model ECPPort and ECPRepository with EMF [379562] (target milestone: 1.0.0M1)

[ECP2] use context.getEditingDomain() instead ofAdapterFactoryEditingDomain.getEditingDomainFor() [381128] (target milestone: 1.0.0M2)

Modularize ECP for (better) reuse in other containers other than 3.x editors [382328] (target milestone: 1.0.0M1)

ECP should be runnable in a non-cdo and/or non-emfstore context [382365] (target milestone: 1.0.0M1)

Performance optimization of model element deletion [382516] (target milestone: 1.0.0M3)
Project Plans

BPMN2 Modeler Project 1.0 Plan

1.0

Description:
The BPMN2 Modeler is a graphical modeling tool which allows creation and editing of BPMN 2.0 spec compliant diagrams. The tool is built on Eclipse Graphiti and uses the MDT BPMN2 project as the underlying model. This release represents the first stable version of the editor.

Version 1.0, while still not a final, polished product, is very stable and offers a very complete API that achieves the goals set for this release. The project leadership would like to thank the university researchers and community users who helped define and refine the editor API (you know who you are 😊) and for making BPMN2 Modeler a better product.

Deliverables:
- Generic BPMN2 editor
- jBPMN extension plug-in
- Code samples and tutorials

Compatibility:
This, and all releases going forward, will only support Graphiti version 0.10.x and higher. If the Graphiti project releases a new version with breaking API changes, BPMN2 Modeler will be updated to support those new versions of Graphiti.

A new extension point has been added to allow extension plug-ins to define custom extensions for BPMN 2.0 connection elements as well as shapes. See Bug 415769 for details.

The class hierarchy for Custom Tasks has been refactored to allow extension plug-ins to define custom extensions for BPMN 2.0. See Bug 415769 for details.

Also see the New & Noteworthy page for more information about compatibility issues.

Internationalization:
String localization for all UI messages will be addressed in the next service release scheduled for end of Q4, 2013.

Target Environments:
This release requires Java 6 and is targeted for Kepler. Testing has been done on the following hardware/OS platforms:
- MS-Windows 7
- Fedora Linux 18
- MacOS X 10.8 Mountain Lion

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<th>Date</th>
<th>Description</th>
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<td>Initial Contribution</td>
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<td>M2</td>
<td>2012/09/15</td>
<td>Milestone Build</td>
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<td>RC1</td>
<td>2012/09/30</td>
<td>Release Candidate for 0.1.0</td>
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<tr>
<td>0.1.0</td>
<td>2012/10/15</td>
<td>Code Stabilization Release</td>
</tr>
</tbody>
</table>

Milestones
- Name, date, description

Themes
- Bugzilla URLs

Optional
- Deliverables, Compatibility, Target Environments, Internationalization

Description
- Paragraph, no-bullets preferred
Quiz

If you require assistance, you should contact:

(A) Your project mentors
(B) Your PMC
(C) emo@eclipse.org
(D) 411
Quiz

The open source rules of engagement include:
(A) Governance, Releases, and Reviews
(B) Openness, Transparency, and Morrissey
(C) Participation, Contribution, and Openness
(D) Openness, Transparency, and Meritocracy
Quiz

For an Eclipse project “open” means:
(A) Operational (open for business)
(B) Level playing field (open opportunity)
(C) Visibility (open book)
(D) Source code is available for free download
Links and Stuff

• Cross Project Issues Dev mailing list
  – https://dev.eclipse.org/mailman/listinfo/cross-project-issues-dev

• Project-specific mailing lists
  – https://dev.eclipse.org/mailman/listinfo/<short-name>-dev
  – https://dev.eclipse.org/mailman/listinfo/<pmc-short-name>-pmc

• Development Resources

• The Eclipse Development Process
  – http://eclipse.org/projects/dev_process

• Project Metadata
  – https://wiki.eclipse.org/Project_Management_Infrastructure/Project_Metadata

• The Project Management Infrastructure
  – http://wiki.eclipse.org/Project_Management_Infrastructure

• Starting a Project
Part II

Sharon Corbett
Intellectual Property Management
AGENDA

• Intellectual Property Overview
• Due Diligence Process Poster
• Contribution Types
• Applicable Project Licenses
• Arranging an Initial Project CQ
• IPzilla
• Quiz
INTELLECTUAL PROPERTY

(IP) Refers to creations of the mind...Idea, Invention, Process, etc..
Meet the Team

Janet Campbell
- Director of Intellectual Property
- Legal Counsel

Sharon Corbett
- Intellectual Property Management

Pablo Jacobovich
- Intellectual Property Analyst
A Brief Explanation of the Eclipse IP Policy
Benefits of the Eclipse IP Management
Who has a Role to Play?
Everyone has a Role to Play!

- Committers
- PMC
- Project
- The Eclipse Foundation
Due Diligence Process
Figure 1, 2, & 3

Figure 1
Written 100% by Submitting Committer or Committee on same Project under the supervision of the PMC
(See Definitions on Page 3)

Figure 2
Written 100% by employees of the same employer as the Submitting Committer: (a) under the supervision of the PMC; and (b) where the employer has signed a Member Committee Agreement.
(See Definitions on Page 3)

Figure 3
Written 100% by Submitting Contributor (Non-Committer) and Submitted under the terms of the Project License (typically EPL)
(See Definitions on Page 3)

Figure 7
Confirm that the Contribution:
1. Contains No Cryptography
2. Is Developed from Scratch (without incorporating content from elsewhere) – Contact the EMO if you aren’t sure.
3. Is 100% Project License Code

Figure 9
Confirm that the Contribution:
1. Contains No Cryptography
2. Is Developed from Scratch (without incorporating content from elsewhere) – Contact the EMO if you aren’t sure.
3. Is 100% Project License Code

Includes all content, such as XML, DTDs, fonts, images, logos, trademarks.

Figure 8
Definitions:

“Project License” — your default Project license will be the EPL. Any other licensing strategy requires a unanimous vote of the Eclipse Board of Directors.

“Non-Eclipse Content” — any code maintained on servers other than those of the Eclipse Foundation.

“Under Supervision of the PMC” — refers to general supervision; sufficient to ensure the code being submitted is in line with the goals of the project from a technical standpoint. This level of supervision may vary by project. Determination is to be made by the relevant PMC of the project.

“Submitting Committee” — An Eclipse committee on the project at the time of development. Code developed prior to becoming an Eclipse committee requires due diligence review.

Third Party Dependencies:

Does your project work with or depend on other third party content?
Please consult the Eclipse Third Party Dependency Policy

Moving Code to Eclipse:

Interested in moving code from somewhere else to Eclipse and maintaining it at Eclipse?
Contact pmo@eclipse.org

Distributing Eclipse Projects, Plug-Ins & Bundles — Guidelines:

Release Candidate Distributions must not contain Non-Release Candidate (e.g., not “RC1” or final release “1.0”) distributions from other Eclipse Projects as such releases may contain non-reviewed and approved content.

Release Candidate Distributions may pre-req Non-Release Candidate (e.g., not “RC1” or final release “1.0”) distributions from other Eclipse Projects provided the downstream consumer is made aware that the content that is being pre-req’d may contain non-reviewed and approved content.

Non-Release Candidate Distributions may contain Non-Release Candidate (e.g., not “RC1” or final release “1.0”) distributions from other Eclipse Projects.

Non-Release Candidate Distributions may pre-req Non-Release Candidate (e.g., not “RC1” or final release “1.0”) distributions from other Eclipse Projects.

Simultaneous Release: All Projects participating in the Release Candidate for the simultaneous release must be Release Candidate themselves. The above guidelines apply to any Project wishing to pre-req or incorporate other Eclipse Projects.
Contribution Questionnaires (CQs)

**Project Code**
- Hosted/Maintained @Eclipse
- Project Licensed

**Other**
- Not Hosted/Not Maintained @Eclipse
- Various License(s)
Eclipse Project License

EPL (Typical)

Dual Licensed Scenarios are Possible

Non-Code, Example, and Other Content: EPL, CCSA 2.0, CC 3.0 (Unported)
Types of Project Licensed CQs

- Initial to Kick off a Project
- Community Contributions
- Authored by other Committers
- Moving to Eclipse
Arranging a Project Licensed CQ

- Origin
- Rights
- Cryptography

- Copyright/License Headers
- Link to Contribution
- Attach Source (Zip)

- About, License & Notice Files
Submit a CQ
Create a CQ

Please make sure that you are familiar with the Eclipse Legal Process Poster before continuing with this questionnaire.

Specify the type of contribution:

- Contribution of code to be maintained by an Eclipse Foundation project
- Third-Party Code Request

Select the “Third-Party” option if you wish to use, re-use, reference or distribute third-party code that is maintained elsewhere. Note: this includes EPL code that is not maintained at eclipse.org.

Continue
Welcome to IPZILLA
Quiz

What is the typical project license for Eclipse projects?

1. Eclipse Distribution License
2. Eclipse Public License
3. Creative Commons Attribution 3.0 Unported
4. Apache 2.0 License
The typical project license for Eclipse projects is...

A. Eclipse Distribution License
B. Eclipse Public License
C. Creative Commons Attribution 3.0 Unported
D. Apache 2.0 License
Quiz

What are the benefits of the Eclipse IP process?

A. Provide a reduced risk of copyright infringement
B. Provide a reduced risk of litigation
C. Provide developer freedom
D. Help committers write awesome code
Answer

The benefits of the Eclipse IP process are…

A. Provide a reduced risk of copyright infringement
B. Provide a reduced risk of litigation
C. Provide developer freedom
D. Help committers write awesome code
End Part 1
Eclipse Committer Bootcamp

Part III: Provisioning & Server Resources
http://eclip.se/q
Agenda

- The team
- Server infrastructure overview
- You Eclipse Foundation account, committer ID
- Project provisioning process
- Committing your initial contribution
- Interacting with users and other developers
- Asking for help
- Quiz
Your Webmaster Team

- Matt Ward – Server Samurai
- Thanh Ha – Build Guru / Git Ninja
- Denis Roy – Just Some Guy
- Web Developers: Chris Guindon & Edouard Poitras

webmaster@eclipse.org
Server Infrastructure

- 3 Cabinets in Ottawa, Canada
- 60 kW redundant AC power
- 1 Gbps backends
- 1 Gbps BGP-4 bandwidth (rate limited)
- 45 TB/month
- 45M web pages/month (www & wiki)
- Download servers: 9M files/day (14M hits)
- ~60 download mirrors worldwide
- 99.995% service availability
Source Code: Git, Gerrit

index: eclipse.platform.git

Bug 419503 - Dirty working tree: about mappings
Signed-off-by: Thanh Ha <thanh.ha@eclipse.org>

Diffstat (more/less context) (ignore whitespace changes)
-rw-r--  platform/org.eclipse.platform/about.mappings  2
-rw-r--  platform/org.eclipse.platform/pom.xml       25

http://git.eclipse.org
Gerrit Code Review

- Any contributor can push to Gerrit repository
- Review/vote before merging with master
  - Committer votes
  - Hudson “votes”

http://git.eclipse.org/r
Contributions and Community

- Contributions come in through Bugzilla or Gerrit
- CLA (Contributor License Agreement)
- Everyone must sign-off!
CLA

• http://projects.eclipse.org
Issue Tracker: Bugzilla

Bug 401288 - Require possibility to specify workspace (data) directory of tests to run. (edit)

Status: RESOLVED FIXED (edit)
Product: Tycho
Component: Core
Version: 0.16.0
Hardware: All
Importance: P3
Target Milestone: 0.17.0
Assigned To: Jan Sievers (edit) (take)
QA Contact: (edit) (take)

Reported: 2013-02-20 05:16 EST by Johann Draschwandtner — CLA
Modified: 2013-05-03 08:26 EDT (History)
CC List: Add me to CC list 4 users (edit)

See Also: (add)

Attachments
proposed fix (1.34 KB, patch)
2012-07-27 13:06 EDT, Pedro Larios — CLA
Add an attachment (proposed patch, testcase, etc.) View All

Additional Comments:

Status: NEW
Mark as Duplicate

Pedro Larios — CLA 2012-07-27 13:00:26 EDT
Build Identifier: 2.0.4

SWTBotTable.columnCount returns 0 when there are no columns, or when a TableColumn has not been explicitly created. This causes the selection method to return a TableRow item with no text even though the selection is valid in the table widget.

Reproducible: Always
## User Community: Forums

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<td>Tue, 08 October 2013</td>
<td>Zhg Mising name</td>
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<td>Zhg Mising name</td>
<td>15</td>
<td>Tue, 08 October 2013</td>
<td>Zhg Mising name</td>
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<td>Eclipse + Blackberry + Phonegap project</td>
<td>Paul Kilroy</td>
<td>0</td>
<td>Mon, 07 October 2013</td>
<td>Paul Kilroy</td>
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<td>wiki.eclipse.org/Eclipse.ini</td>
<td>Russell Bateman</td>
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<td>awdesh parihar</td>
<td>05:10 AM</td>
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<td>Jetty support on WinCE</td>
<td></td>
<td>Jay Bhatt</td>
<td>08:27 AM</td>
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<td>Need help getting started with dandelion pl...</td>
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<td>Paul Bowyer</td>
<td>08:27 AM</td>
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<td>08:44 AM</td>
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<td>Eclipse + OpenKM</td>
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<td>Mike McGuire</td>
<td>11:57 AM</td>
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Mailing list: jubula-dev
Jubula platform and tools development

About jubula-dev
Jubula platform and tools development

Using jubula-dev
To post a message to all the list members, send email to jubula-dev@eclipse.org. You must be subscribed to the list before this list, visit the jubula-dev Archives or subscribe to this list's RSS feed.

Subscribing to jubula-dev
All contributions you make to our web site are governed by our Terms Of Use. Your interactions with the Eclipse Foundation provide us about yourself are governed by our Privacy Policy.

Subscribe to jubula-dev by filling out the following form. You will be sent email requesting confirmation, to prevent others from entering your email address. You may enter a privacy password below. This provides only mild security, but should prevent others from messing with subscription. Do not use a valuable password as it may be emailed back to you in cleartext.
Accounts

- Committer ID vs. Email ID
- Committer ID for SSH & Portal
- Email for everything else
- This is Open Source -- Email addresses are shown!
Project Provisioning process

- Project space: Git, www.eclipse.org, Bugzilla, Mailing Lists, Forum
- Committing IP-approved Initial Contribution to git.eclipse.org
- Culling history on Github-hosted repos
Project Website

Xtext

LANGUAGE DEVELOPMENT MADE EASY!

Building your own domain-specific languages has never been so easy. Just put your grammar in place and you not only get the working parser and linker but also first class Eclipse support.

Download
Interacting With Others

- Dev lists for committers (typically)
- Forums for user discussions (again, typically)
- Eclipse.org-committers mailing list
- Cross-project-issues-dev mailing list
- Bugzilla – Eclipse Foundation > Community
- webmaster@eclipse.org (Servers & Infra)
  emo@eclipse.org (Project, community & process)
Quiz

Question 1: A contributor does NOT need a signed CLA when...

a) The Eclipse project uses Gerrit.
b) The Eclipse project uses Git.
c) Sending SPAM to wayne@eclipse.org
d) Working for a member company who has a signed membership agreement.
Quiz

Question 1: A contributor does NOT need a signed CLA when...

a) The Eclipse project uses Gerrit.
b) The Eclipse project uses Git.
c) Sending SPAM to wayne@eclipse.org
d) Working for a member company who has a signed membership agreement.
Quiz

Question 2: How can I help grow my user community?

a) Answer questions on the forums
b) Post FAQs on my project website
c) Make my project website inviting
d) Spend 100% of my time writing code
Question 2: How can I help grow my user community?

a) Answer questions on the forums
b) Post FAQs on my project website
c) Make my project website inviting
d) Spend 100% of my time writing code
Quiz

Question 3: When must I use my committer ID instead of my email address?

a) When logging on to the Forums
b) When writing an email
c) When being interrogated by airport security
d) When committing via SSH to git.eclipse.org
Quiz

Question 3: When must I use my committer ID instead of my email address?

a) When logging on to the Forums
b) When writing an email
c) When being interrogated by airport security
d) When committing via SSH to git.eclipse.org
Eclipse Committer Bootcamp

Part II: Managing Your Project

http://eclipse.org/projects/dev_process
Agenda

- Community development
- Elections
- Releases, plans, and reviews
- IP Logs
- Quiz
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”
Pragmatically Speaking...

- Keep project information up-to-date
  - Project and release metadata, website, downloads
- Project code must be buildable
- Have a contribution guide
  - “Getting started”
  - CONTRIBUTING file in project repositories
  - https://bugs.eclipse.org/397644
Contribution Guide

• Git, Gerrit, GitHub, ...
• Issue tracking (Bugzilla)
  - “Help wanted” issues
• Project plan
• How to build
• How to engage (mailing lists, forums, Bugzilla)
Contribution Guide Generator


Contributing to Sapphire

Thanks for your interest in this project.

Project description:

Sapphire is a user interface development framework that improves productivity. Instead of focusing on individual widgets, layouts and data binding, the developers focus on modeling the semantics of the data and declaring the general intent of how the data it to be presented.

- https://projects.eclipse.org/projects/technology.sapphire

Developer resources:

Information regarding source code management, builds, coding standards, and more.


Contributor License Agreement:

Before your contribution can be accepted by the project, you need to create and electronically sign the Eclipse Foundation Contributor License Agreement (CLA).


Spend Time With the Community
Outreach

- Present at conferences
- Social media: Blog, tweet, ...
- Author papers, articles, ...
- You know your community best
  - Where do they hang out?
- Help potential contributors find you
  - Serving one community can build another
  - e.g. A happy user community builds the adopter community; a large adopter community drives contribution
Meritocracy

- Nominees need to prove themselves
- How much merit is enough?
  - Project-specific (work with your PMC)
  - Tends to be qualitative, not quantitative
- Nomination criteria:
  - Source code contributions
  - Forum activity
  - Subject matter expert
  - ...
Project Lifecycle

- Declaration
- Proposal
  - Creation Review
  - Incubation
    - Release Review
    - Graduation Review
    - Mature
      - Release Review
      - Elimination Review
- Archived
Releases

Capture Plan -> Implement -> Produce Milestone

Release
Release Review

Assemble Review Doc

PMC Review Documentation

-2 weeks

Assemble IP Log

IP Team Review IP Log

Start Release Review

-1 week

End Release Review

Publish Release
Release Review

• Major/minor releases
  – Release review
  – IP Log approval
  – Plan to spend time planning/documenting release

• Service/Bugfix-only releases
  – No review
  – No IP Log approval
Release Naming

- `<major>`.<`minor`>.<`service`>
  - e.g. 0.3, 1.2.4, ...
- Release
  - e.g. 0.7
- Milestones
  - Use the expected release name with M/RC
  - e.g. 0.7M1, 0.7M2, 0.7M3, 0.7RC1, 0.7RC2
  - Not for general public consumption
Incubation

• Releases conventionally use pre-1.0 names

• Incubation branding
  – Incubation logo on their project home and primary download pages
  – Downloads include the word "incubation" in the filename
    • Not required for JAR files
  – Bundle and feature names include the word "incubation"
    • Not required for "Bundle-SymbolicName"s

• Incubation ends with a graduation review
  – Generally combined with a release review
Other Reviews

• Graduation
  – Generally combined with a release review
  – Demonstrate committer familiarity with EDP/IP policy
  – API stability, quality code

• Termination
  – Lack of development resources, will, interest, ...
  – Done?
The IP Log Generator

- Git/SVN
- Committers Activity (Dash)
- Repositories (PMI)
- Contributions (Dash)
- Licenses (Foundation DB)
- Contributions (Bugzilla)

IP Log Generator

IP Log
IP Log Review

Downloads Directory

Downloads Scanner

Technical Review

Legal Review

IP Log

Contributions REVIEW
The Download Scanner

- Linked from project page's “Committers” menu
- Validates third-party library use in project download directories
- Limited to Java/OSGi-based files
- Should be considered a guide
  - Committers are responsible for following the Eclipse IP policy and process
- Don't count on this tool to get it exactly right

http://eclipse.org/projects/tools/downloads.php?id=<projectId>
Quiz

• A review is required for:
  • (A) A bugfix releases
  • (B) Committer elections
  • (C) Producing milestone builds
  • (D) Project creation
Quiz

To graduate, a project must:
(A) Have stable APIs
(B) Demonstrate knowledge of the EDP and IP Policy
(C) Invest in community outreach/development
(D) Have committer diversity
Quiz

Release plans are:
(A) Created at the beginning of a release cycle
(B) Modified throughout the release cycle
(C) Hastily assembled at the end of the release cycle
(D) Useless
Quiz

Release documentation:
(A) Must be approved
Links and Stuff (1/2)

- Eclipse Development Process
  - http://www.eclipse.org/projects/dev_process
- Committer Due Diligence Guidelines
- Release Cycle
- Release Review
- Contribution Guide
  - http://git.eclipse.org/c/egit/egit.git/plain/SUBMITTING_PATCHES
Links and Stuff (2/2)

- Incubation Branding
- Handling Git/Gerrit Contributions
- Download Scanner
- Bugzilla Contributions Review
- IP Logs
- IP Log Generator
The Eclipse Intellectual Property Process and You

Part IV
Agenda

• Using Third Party Libraries
• Dependency Categories
• Build & Test Workswith
• Parallel IP
• Review Stages
• Due Diligence Review
• IP Logs
• IP Best Practices
• Quiz
Contribution Questionnaires (CQs)

- **Project Code**
  - Hosted/Maintained @Eclipse
  - Project Licensed

- **Other**
  - Not Hosted/Not Maintained @Eclipse
  - Various License(s)
Approved Third Party Licenses

Apache Software License 1.1
Apache Software License 2.0
W3C Software License
Common Public License 1.0
IBM Public License 1.0
Mozilla Public License 1.1
Mozilla Public License 2.0
Common Development and Distribution License (CDDL) 1.0
GNU Free Documentation License 1.3
BSD
MIT
Example of Non Approved Third Party License

GNU General Public License (GPL)
Types of Project Licensed CQs

- Prerequisite
- Workswith
Arranging Third Party CQs

Has the package been previously approved for Eclipse distribution?

- Yes – Request Reuse
- No – Request a new CQ
Reuse - Piggyback

1. Orbit Bundle?
2. From Another Project?
   - Verify Approved Attachment?
   - Check for Subset Details
     - No Requirement to Provide Source
       - Immediate Approval
### Third Party CQs

<table>
<thead>
<tr>
<th>Origin</th>
<th>Contribution Mechanism</th>
<th>License(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project/Source URLs</td>
<td>Binary/Source</td>
<td>Modified/Unmodified</td>
</tr>
<tr>
<td>Attach Source (Zip)</td>
<td>No Nesting</td>
<td>Narrow Scope</td>
</tr>
</tbody>
</table>

About, License & Notice Files
Submit a CQ

Welcome, Denis Roy

Create a Contribution Questionnaire

Home ➔ Technology Project ➔ Babel

Please make sure that you are familiar with the Eclipse Legal Process Poster before continuing with this questionnaire.

Specify the type of contribution.

- Contribution of code to be maintained by an Eclipse Foundation project
- Third-Party Code Request.

Select the “Third-Party” option if you wish to use, re-use, reference or distribute third-party code that is maintained elsewhere. Note: this includes EPL code that is not maintained at eclipse.org

Continue
Reuse – PiggyBack CQ

Welcome, Denis Roy
Babel

Home » Technology Project » Babel

Create a Contribution Questionnaire for a Third Party Library

Enter the name of Library you wish to use. If we have a matching record in our IPZilla database, please select it for re-use. Otherwise enter the library name and version and choose 'continue'.

Tooltip Icons

✓ Approved  ● Orbit Bundle

Name and Version of the Library:

antlr

✓ [CQ4865] ANTLR Runtime only: Version: 3.2 (ATO CQ3820)
✓ [CQ1921] ANTLR runtime Version: 3.0 (PB CQ1557)
✓ [CQ5988] ANTLR Runtime only: Version: 3.2 (PB Orbit CQ4865)
✓ [CQ5848] Jena 2.6.3 WITHOUT Version: Antlr (PB CQ4397)
✓ [CQ5828] ANTLR Runtime only: Version: 3.2 (PB Orbit CQ4865)
✓ [CQ5729] ANTLR Version: 3.0.1
✓ [CQ5706] ANTLR Runtime only: Version: 3.2 (PB Orbit CQ4865)
✓ [CQ4139] org.antlr Version: 3.0.1
✓ [CQ5622] ANTLR Runtime Version: 3.0 (PB Orbit CQ1921)
✓ [CQ5249] ANTLR Runtime only: Version 3.2 (PB Orbit CQ4865)
Third Party Dependency Policy
Build and Test Dependencies

• Non-distributable third party libraries and tools
• Required for build server only
• Grouped into single CQ, declared a “workswith” dependency if applicable
Parallel IP - Incubating

Is Project Conforming to Incubation?

Yes

Eligible for Parallel IP

No

CQ Remains In Queue

CQ Receives Checkin Based on Parallel IP
Parallel IP - Mature

Earlier Version of Package Approved?
- Yes

Is “Diff” between this version and previous version significant?
- Yes
- No

CQ Remains In Queue

CQ Receives Checkin Based on Mature Parallel IP
Due Diligence Review
Due Diligence Review

- Provenance (AKA Pedigree)
- License Compatibility
- Suitability
We’ve Done our Homework

<table>
<thead>
<tr>
<th>Review Complete</th>
<th>Areas of Concern Investigated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Other open source projects contacted if required regarding investigation/resolutions</td>
</tr>
<tr>
<td></td>
<td>If approval is not possible, committer is contacted and advised of Foundation’s concerns and a technical workaround is investigated</td>
</tr>
</tbody>
</table>
Approved IPzilla CQ
Project IP Log

- Submission
- Technical Review
- IP Team Review
- Approval via email
YOU WANT YOUR CQ RESOLVED BY WHEN?
IP Best Practices

• Follow the DD Process
• Understand your code and what the project intends to distribute
• Scope/No Nesting
• Separate CQs (project licensed/third party)
• Third Party content requires approval to check in
• When in doubt, check in with us (emo-ip-team@eclipse.org)
Quiz

Which License is not approved for Eclipse distribution?

A. Apache 2.0
B. BSD
C. MIT
D. GPL
Which of the following licenses is not approved for Eclipse distribution?

A. Apache 2.0  
B. BSD  
C. MIT  
D. GPL
Quiz

Can I check my third party jar into the repository without a CQ?

1. Yes
2. No
Content which requires due diligence review should not be checked in until the relevant CQ is provided a green light of checkin and/or full approval.

A. Yes
B. No
My project only uses Orbit Bundles for third party requirements. Orbit bundles are approved, do I still need to create a CQ?

A. Yes
B. No
Answer

Orbit Bundles are Approved for Eclipse distribution. However, each project is required to request reuse via its own CQ. Required for tracking purposes / forms part of the Project’s IP Log

A. Yes
B. No
Eclipse Legal Resources

- Legal - [www.eclipse.org/legal](http://www.eclipse.org/legal)
Getting In Touch

• IP Process Questions
  emo-ip-team@eclipse.org

• License Questions
  license@eclipse.org

• Committer Legal Agreements
  emo-records@eclipse.org
THANK YOU!
Eclipse Committer Bootcamp

Part VI: Builds & Downloads
http://eclip.se/t
Agenda

- Building: Hudson/HIPP, CBI
- Signing JAR files
- Storage: build artifacts, nightlies, releases
- Using mirrors
- Download statistics
- Cleaning up
- Quiz
Common Build Infrastructure

- Hudson CI
- Git/Gerrit
- Maven/Tycho
- Jar signing
- Nexus (Maven repository)
- http://wiki.eclipse.org/CBI

Make it easy for anyone to build your code!
Hudson & HIPP

• Employs Hudson Continuous Integration
• Shared Hudson w/ Mac and Windows UI slaves
• HIPP: Hudson Instance Per Project
• Limitations
Signing

- JAR files: queued and private web service
  - Queued for many files, ZIPs
  - Web service for on-the-fly signing, jars only
- Windows executables via private web service
- Mac executables via private web service
- Maven signing plugin: http://eclips.se/u
- http://eclips.se/q
- wiki.eclipse.org/IT_Infrastructure_Doc
Storing builds

- Temporary stores: build artifacts, workspace
- Nightly builds not mirrored
- Stable & Release: mirrored
- Simultaneous Release
- Storage is not unlimited!
- wiki.eclipse.org/IT_Infrastructure_Doc#Builds
- wiki.eclipse.org/Hudson
- Maven: repo.eclipse.org
Download Statistics

• Use Mirrors? Get download stats.
• P2 & mirrors

What to add?

The `p2.mirrorsURL` property has the following structure:

```xml
<property name="p2.mirrorsURL"
```

- replace `{repository_path}` with the path where your artifacts.jar sits on download.eclipse.org.

• P2 & stats

There are two steps to enable p2 download statistics gathering for your repository:

1) In the artifact repository that you want to track downloads from, add a `p2.statsURI` property specifying the statistics URL (in artifact repository).

```
<repository name='Update Site' type='org.eclipse.equinox.p2.artifact.repository.simpleRepository' version='1'>
<properties size='3'>
<property name='p2.timestamp' value='1269575706171'/>
<property name='p2.compressed' value='true'/>
<property name='p2.statsURI' value='http://your.stats.server/stats'/>
</properties>
</repository>
```
Download statistics

- wiki.eclipse.org/Equinox_p2_download_stats
- wiki.eclipse.org/Equinox/p2/p2.mirrorsURL
- Ask cross-project-issues-dev for help!
- No solution yet for Maven/repo.eclipse.org stats
Stats Tool

Partial File Name: /technology/app/downloads/release/kepler/R/eclipse

TIP: For faster results, use a file name that matches the fewest amount of files as possible to satisfy your query. For instance, query using the core file(s) that make up one user download.

Or pick from list: Open the File List

Group multiple files as a single result: 

Background this query, send results to this e-mail: 

Run query

**Please note:** Using the filter options below causes queries to run against 74,971,942 download records, from 2012-10-22 to 2013-10-22 00:01:01. Today's downloads will be added at midnight Eastern Time.

**Date**

<table>
<thead>
<tr>
<th>Date</th>
<th>?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Custom Date From (blank = &quot;since the beginning&quot;)</td>
<td>?</td>
</tr>
<tr>
<td>Custom Date To (blank = &quot;now&quot;)</td>
<td>?</td>
</tr>
</tbody>
</table>

TIP: date-based queries take much longer to run when files with tens of thousands of downloads are included.

**Select View**

<table>
<thead>
<tr>
<th>Select View</th>
<th>Grouped by country</th>
</tr>
</thead>
</table>

---

**Results**

Query took 6.062 sec (0.004 connect time)

<table>
<thead>
<tr>
<th>File</th>
<th>Code</th>
<th>Country</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>technology/app/downloads/release/kepler/R/eclipse-standard-kepler-R-win32-x86_64.zip</td>
<td>us</td>
<td>United States</td>
<td>233557</td>
</tr>
<tr>
<td></td>
<td>cn</td>
<td>China</td>
<td>158715</td>
</tr>
<tr>
<td></td>
<td>de</td>
<td>Germany</td>
<td>61775</td>
</tr>
<tr>
<td></td>
<td>in</td>
<td>India</td>
<td>57092</td>
</tr>
<tr>
<td></td>
<td>br</td>
<td>Brazil</td>
<td>45571</td>
</tr>
<tr>
<td></td>
<td>kr</td>
<td>Korea, Republic Of</td>
<td>43784</td>
</tr>
</tbody>
</table>

Committers Only: https://dev.eclipse.org/site_login/myaccount.php
Cleaning up

- Retention policy
- Source code and Bugzilla
- Hudson build artifacts
- Download.eclipse.org
- Older builds: archive.eclipse.org
Quiz

Question 1: Eclipse download servers are permanent storage for...

a) Build Workspaces
b) All my emails and personal backups
c) Nightly builds
d) Production/Release builds
Quiz

Question 1: Eclipse download servers are permanent storage for...

a) Build Workspaces
b) All my emails and personal backups
c) Nightly builds
d) Production/Release builds
Quiz

Question 2: Can I use the Eclipse Foundation signing services to sign personal project plugins?

a) Sure, why not?
b) I think so.
c) Perhaps that is not a good idea.
d) Definitely not.
Quiz

Question 2: Can I use the Eclipse Foundation signing services to sign personal project plugins?

a) Sure, why not?
b) I think so.
c) Perhaps that is not a good idea.
d) Definitely not.
Quiz

Question 3: What are the reasons for enabling mirrors on my downloadable bits?

a) Webmaster loves me for saving resources.
b) Users love me for closer, faster downloads.
c) I get download stats.
d) I will get free beer at EclipseCon.
Quiz

Question 3: What are the reasons for enabling mirrors on my downloadable bits?

a) Webmaster loves me for saving resources.
b) Users love me for closer, faster downloads.
c) I get download stats.
d) I will get free* beer at EclipseCon.

* While there is no guarantee you will get free beer at EclipseCon for using mirrors, your chances are greatly improved.
Evaluate This Session

1. Sign-in: [www.eclipsecon.org](http://www.eclipsecon.org)

2. Select session from schedule

3. Evaluate: +1  0  -1