Eclipse Committer Bootcamp

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Questions During (or After) the Presentation

Email: emo@eclipse.org
Companion Materials

https://wiki.eclipse.org/Development_Resources/Committer_Bootcamp
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
Projects, Committers, and Resources

Resources and Committers

<table>
<thead>
<tr>
<th>Website</th>
<th>Bugzilla</th>
</tr>
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<tbody>
<tr>
<td>Git</td>
<td>IPZilla</td>
</tr>
<tr>
<td>Downloads</td>
<td>Mailing Lists</td>
</tr>
<tr>
<td>HIPP</td>
<td>Forums</td>
</tr>
<tr>
<td>Metadata</td>
<td></td>
</tr>
</tbody>
</table>

Top-Level Project

Resources and Committers

Project

Project (Subproject)

Resources and Committers

Project (Subproject)

Resources and Committers
Some Sharing

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

• May not share:
  – Committers
  – Repositories, Bugzilla
Leadership Chain

1. Board of Directors
2. EMO(ED)
3. Project Management Committee
4. 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

Overview

Eclipse SCADA

SCADA (supervisory control and data acquisition) is a type of industrial control system (ICS). Industrial control systems are computer controlled systems that monitor and control industrial processes that exist in the physical world. SCADA systems historically distinguish themselves from other ICS systems by being large scale processes that can include multiple sites, and large distances.

Simply speaking the primary target of Eclipse SCADA is a way to connect different industrial devices to a common communication bus as well as visualize the data to operating personnel.

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

- Description
  - Present tense
  - “elevator pitch”
- Scope
- Logo
- Categorization
- Links
- More...
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 information; e.g. "5.6 (Kepler)", "1.0.1".

Create [button] Create and edit [button]
Release Metadata

- Name
  - e.g. “3.4”, “4.4”
- Description
  - Present tense
  - “Elevator Pitch”
- Release Date
- Release Type (major, minor, service)
**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
- JBPM 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 418768 for details.

The class hierarchy for Custom Tasks has been refactored to allow extension plug-ins to define custom extensions for BPMN 2.0 extension points. See Bug 415668 for details.

Also see the [New & Noteworthy](#) page for more information about compatibility issues.

**Internationalization:**
String externalization 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
- Mac OS-X 10.8 Mountain Lion

<table>
<thead>
<tr>
<th>Name</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M1</td>
<td>2012/08/15</td>
<td>Initial Contribution</td>
</tr>
<tr>
<td>M2</td>
<td>2012/09/15</td>
<td>Milestone Build</td>
</tr>
<tr>
<td>RC1</td>
<td>2012/09/30</td>
<td>Release Candidate for 0.1.0</td>
</tr>
<tr>
<td>0.1.0</td>
<td>2013/10/15</td>
<td>Code Stabilization Release</td>
</tr>
</tbody>
</table>
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
The Eclipse Intellectual Property Process and You

Part II

Sharon Corbett
Manager
Intellectual Property Management
AGENDA

• Eclipse Intellectual Property Overview
• Meet the Eclipse IP Team
• Benefits
• Origin of Eclipse Code
• Necessary Rights
• Due Diligence Process Poster
• IPzilla
INTELLECTUAL PROPERTY

... a legal concept which refers to creations of the mind for which exclusive rights are recognized!
Eclipse Intellectual Property Management

Eclipse IP Policy …

*Designed to ensure we maintain the cleanliness of the Eclipse code base…*

•*Necessary Rights*

•*Non Restrictive Licenses*
Meet the Team

- **Janet Campbell**
  - Director of Intellectual Property
  - Legal Counsel

- **Sharon Corbett**
  - Intellectual Property Management

- **Pablo Jacobovich**
  - Intellectual Property Analyst
Benefits of the Eclipse IP Management

- Risk Reduction
- Collaboration
- Adoption
Origin of Eclipse Code

• Code originates from one of the following three sources:
  – Contributions from Eclipse Committers
  – Contributions from Contributors
  – Contributions from third party sources (e.g., another open source project)
Securing Necessary Rights

• Committers:
  • Individual Committer Agreement
  • Employer Consent Form (if individual is employed)
  • Member Committer Agreement

• Contributors:
  • Eclipse Contribution License Agreement (CLA)

• Third Party Sources (another open source project):
  • Project Contribution Mechanism in place?
Due Diligence Process
Welcome to IPZILLA
Continued

• In Part V, we will dive into the Eclipse Due Diligence Services in greater detail!
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

```plaintext
index: eclipse.platform.git
```

<table>
<thead>
<tr>
<th>author</th>
<th>Thanh Ha</th>
<th>2013-10-21 11:36:45 (EDT)</th>
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<tr>
<td>committer</td>
<td>David Williams</td>
<td>2013-10-23 11:01:11 (EDT)</td>
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<td>commit</td>
<td>8b4c71a541ba8c28957c800e3395ababeaf317d9 (patch) (side-by-side diff)</td>
<td></td>
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<td>tree</td>
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<td>parent</td>
<td>71f0c1c434696b16c82fe0bf6480f6c81d230d3b (diff)</td>
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<td></td>
<td>eclipse.platform-8b4c71a541ba8c28957c800e3395ababeaf317d9.tar.bz2</td>
<td></td>
</tr>
</tbody>
</table>

**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--r--** platform/org.eclipse.platform/about.mappings 2
- **-rw-r--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!

Initial commit - eclipse.org-common & index.html
Signed-off-by: denis <denis.roy@eclipse.org>
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

**QA Contact:** (edit) (take)

**Reported:** 2013-02-20 05:16 EST by Johann Draschwandtner

**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 Laros

  no flags | Details | Diff

  Add an attachment (proposed patch, testcase, etc.) View All

**Additional Comments:**

**Built by:**

**Pedro Laros**

**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
<table>
<thead>
<tr>
<th>Title</th>
<th>By:</th>
<th>Views</th>
<th>Date</th>
<th>By:</th>
</tr>
</thead>
<tbody>
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<td>2</td>
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<td>Missing name Mising name</td>
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<td>Zhg Mising name</td>
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<tr>
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<td>15</td>
<td>Tue, 08 October 2013 04:01</td>
<td>Zhg Mising name</td>
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<tr>
<td>Eclipse + Blackberry + Phonegap project</td>
<td>Paul Kilroy</td>
<td>0</td>
<td>Mon, 07 October 2013 23:17</td>
<td>Paul Kilroy</td>
</tr>
<tr>
<td>wiki.eclipse.org/Eclipse.ini</td>
<td>Russell Bateman</td>
<td>2</td>
<td>Mon, 07 October 2013 17:37</td>
<td>Russell Bateman</td>
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<tr>
<td>Does eclipse support javascript autocomplete</td>
<td>ray zhang</td>
<td></td>
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<td></td>
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<tr>
<td>Auto Numbering</td>
<td>awdessh parihar</td>
<td></td>
<td>05:10 AM</td>
<td></td>
</tr>
<tr>
<td>Jetty support on WinCE</td>
<td>Jay Bhatt</td>
<td></td>
<td>08:27 AM</td>
<td></td>
</tr>
<tr>
<td>Need help getting started with dandelion plugin</td>
<td>Paul Bowyer</td>
<td></td>
<td>08:27 AM</td>
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<td>08:44 AM</td>
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<td>Ralph Laskowski</td>
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<td>09:24 AM</td>
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<tr>
<td>Eclipse Suddenly Won't Start Up</td>
<td>Mike McGuire</td>
<td></td>
<td>11:57 AM</td>
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</tbody>
</table>
Developer Community: Mailing Lists

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 by 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 Foundat 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 seeing the list. 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.

Your email address:  
Your name (optional):  

List archive of Jubula-dev for September 2013

List Home 2013 Index for all years

Search jubula-dev for:

September 15:
- [jubula-dev] [Hudson] Hudson build is back to normal: jubula nightly #1374 - Posted 1:07 PM (ET) hudson build
- [jubula-dev] [Hudson] Build failed in Hudson: jubula nightly #1373 - Posted 11:48 AM (ET) hudson build

<< Previous Month
Accounts

- Committer ID vs. Email ID
- Committer ID for SSH & Portal
- Email for everything else
- This is Open Source -- Email addresses are shown!
Eclipse Foundation Forges
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
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)
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)
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
Spend Time With the Community
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

Capture Plan ← Implement
Release Review

Assemble Review Doc

-2 weeks

PMC Review Documentation

-1 week

Assemble IP Log

IP Team Review IP Log

Start Release Review

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?

• Continuation, Promotion
IP Logs

• The IP Log Generator
• IP Log review process
The IP Log Generator

Diagram:
- Git/SVN
- Committer Activity (Dash)
- Repositories (PMI)
- Contributions (Dash)
- Licenses (foundation DB)
- Contributions (Bugzilla)
- IP Log Generator
- IP Log
Git Commits

commit d6cf52411377a039fc2906378711091a26e932cb
Author: Some Body <somebody@somewhere.com>
Date:   Wed May 29 16:17:36 2013 +0200
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: 350686
Change-Id: Ia2bd5091303d1b0a738157effc24e4dac5a7d0c7
Also-by: Some Bodyelse <somebodyelse@nowhere.com>
Signed-off-by: Some Body <somebody@somewhere.com>
Handling Git Contributions

- Must sign a CLA
- Commit structure
  - Author credentials captured in the "Author" field
  - *A single line summary in the message field
  - A "Signed-off-by" entry with matching credentials in the message footer.
## Bugzilla Contributions

<table>
<thead>
<tr>
<th>Attachments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Patch with a fix</strong> (5.04 KB, patch)</td>
</tr>
<tr>
<td>2010-07-23 20:18 EDT, Kris De Volder</td>
</tr>
</tbody>
</table>

**Add an attachment** (proposed patch, testcase, etc.) | View All
IP Log Review

Downloads Directory

Downloads Scanner

Technical Review

Legal Review

IP Log

Contributions Review
The Download Scanner

- Linked from project page's “Action” 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>
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
  - https://bugs.eclipse.org/bugs/show_bug.cgi?id=397644
  - 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 V

Sharon Corbett
Manager
Intellectual Property Management
Agenda

• Due Diligence Overview
• Review Submissions (aka CQs)
• Committer’s Role
• Reuse Possibilities?
• Parallel IP
• The Review
• Best Practices
• Legal Resources
• Getting in Touch
Eclipse Due Diligence

• Requests for Due Diligence Reviews are initiated by Committers

• Committers adhere to the Eclipse Due Diligence Process

• Requests are submitted via a Contribution Questionnaire (fondly known as a CQ)
Contribution Questionnaires (aka Submissions)

Project Code
Hosted/Maintained @ Eclipse
EPL (Typical) License
Dual Licensed Scenarios Possible

Non Project Code
(Third Party)
Not Hosted/Maintained
@ Eclipse
Various Licenses
Committer Knowledge

• Origin/Source
• Provenance Information
• License(s)
• Binary/Source
• Modified/Unmodified
• Attach Source via Zip (Class Files not Required)
• Ensure No Nesting/Narrow Scope where possible
• Project Licensed and Non Project Licensed Code - not reviewed together
Reuse?

Has the package been previously approved for Eclipse distribution?

- Yes – Request Reuse
- No – Request a new CQ
Parallel IP

- Initial check performed for provenance/license
  - Enables projects to get up and running as quickly as possible

- Graduated projects are eligible for Mature Parallel for revisions of previously approved third party libraries

- Incubating Projects
- Mature Projects
Due Diligence Review

Forensic Analysis
The Review

License
- What license applies?
- Is the license suitable?

Provenance
- Who wrote the code?
- How did they agree to the license?

Due Diligence
- Provenance Concerns?
- Licensing Concerns?
Tooling

- Keyword Search
- Borrowed/Copied Code
- IBM Scan Tool/Blackduck Protex
- License References
- Words with Legal Significance
- Inappropriate Language
- Copyright Reference
# We’ve Done our Homework

<table>
<thead>
<tr>
<th>Review Complete</th>
<th>Areas of Concern Investigated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>

Other open source projects contacted if required regarding investigation/resolutions

If approval is not possible, committer is contacted and advised of Foundation’s concerns and a technical workaround is investigated
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 must receive green light for checkin or full approval prior to being placed in the Eclipse repository
• When in doubt, check in with us (emo-ip-team@eclipse.org)
Eclipse Legal Resources

- Legal - www.eclipse.org/legal
- Committer Agreements - 
  http://wiki.eclipse.org/Development_Resources/HOWTO/Nominating_and_Electing_a_New_Committer
Getting In Touch

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

• License Questions
  license@eclipse.org

• Committer Legal Agreements
  emo-records@eclipse.org
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 antfa
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

Custom Date From (blank = "since the beginning")

Custom Date To (blank = "now")

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

Select View Grouped by country

Query took 6.062 sec (0.004 connect time)

Results

<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>cn China</td>
<td>158715</td>
<td></td>
<td></td>
</tr>
<tr>
<td>de Germany</td>
<td>61775</td>
<td></td>
<td></td>
</tr>
<tr>
<td>in India</td>
<td>57092</td>
<td></td>
<td></td>
</tr>
<tr>
<td>br Brazil</td>
<td>45571</td>
<td></td>
<td></td>
</tr>
<tr>
<td>kr Korea, Republic Of</td>
<td>43784</td>
<td></td>
<td></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