Subversive Galileo Review

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Introduction

• Subversive is an Eclipse Team Provider for Subversion (SVN)

• Subversive is Technology sub-project in Incubation phase:
  ▪ Project home: www.eclipse.org/subversive
  ▪ Project has been active since March 2005
  ▪ Project proposal at eclipse.org was published in June 2006
  ▪ Subversive migrated to eclipse.org and Incubation phase started in November 2007
  ▪ Subversive is a part of the Galileo Simultaneous Release
Features

• Diff Viewer:
  ▪ Ability to use external diff program

• Tree Conflicts:
  ▪ Detection of tree conflicts

• Commit:
  ▪ Resources changes pane
  ▪ Displaying conflicted resources
  ▪ Pre-commit checks for files

• History:
  ▪ Compare revisions for folders
  ▪ Show merged revisions
  ▪ Revision grouping
  ▪ Support of local history

• Branches/Tags
  ▪ Compare with branch/tag
  ▪ Replace with branch/tag

• Properties:
  ▪ Definition of custom properties
  ▪ Property values validation
  ▪ Support of “tsvn” properties

• Synchronize:
  ▪ “Local” and “Remote” submenus
  ▪ Displaying incoming changes for folders

• Repository:
  ▪ Ability to create svn repository

• Patches:
  ▪ Resources selection
  ▪ Patch root selection

• API:
  ▪ Team API 3.2 support
Non-Code Aspects

- User documentation:
  - Documentation is a part of Subversive distribution and is automatically integrated into Eclipse help

- Developer documentation:
  - Architecture review, list of extension points and integration examples available on site: http://www.eclipse.org/subversive/integrations.php

- New and noteworthy:
  - There is a new and noteworthy page for each milestone: http://wiki.eclipse.org/Subversive_New_and_Noteeworthy
APIs

- API conforms with Eclipse Quality standards
Architectural Issues

• Subversive supports Team API introduced in Eclipse 3.0

• We have planned the following outstanding tasks related to Eclipse 3.2 Team API support:
  ▪ Improve resource decoration support
  ▪ Implement svn file system
  ▪ Improve project set capability

• SVN 1.6 related features are supported
Tool Usability

• Subversive provides support for all operations available for SVN clients. It means that it can be used as a fully-functional SVN client and a replacement of the original SVN client.

• Subversive provides a set of unique features that improve usability for developers:
  ▪ Support of repository layouts recommended by Subversion
  ▪ Revision browsing
  ▪ Automatic search of Eclipse projects in the repository
End-of-Life

- No features or APIs are moving into End of Life in this release
Bugzilla

- **Current state:**
  - 151 Bugzilla items
  - 0 - P1 and P2 items

- **Resolved 494 bugs:**
  - Blocker: 22 bugs
  - Critical: 25 bugs
  - Major: 35 bugs
  - Normal: 350 bugs
  - Minor: 7 bugs
  - Trivial: 1 bugs
  - Enhancement: 67 bugs
Standards

- Subversive requires J2SE 1.5 and Eclipse 3.3 or Eclipse 3.4
- Versions compatible with previous versions of Eclipse are available at the previous project location on polarion.org
- Subversive supports SVN 1.1 – 1.6
UI Usability

• Follow User Interface Guidelines
  ▪ Make Subversive close to CVS as much as possible
  ▪ Use best practices for professional UI: care about controls layout, use validators, use nice icons, etc.

• Pursue continuous UI review inside the team

• Implement usability features suggested by the community
## Schedule

<table>
<thead>
<tr>
<th>Subversive Milestone</th>
<th>Eclipse Milestone</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>RC1</td>
<td>Eclipse 3.5RC1</td>
<td>May 19, 2009</td>
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<tr>
<td>RC2</td>
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<td>May 26, 2009</td>
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<td>June 9, 2009</td>
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<tr>
<td>RC5</td>
<td>Eclipse 3.5RC5</td>
<td>June 16, 2009</td>
</tr>
</tbody>
</table>
Communities

- Active communication with the community through Mailing lists, Newsgroup, Bugzilla, etc.

- Active users community: more than 2000 downloads per day

- Project has a Developers and Integrators community and benefits from six integrations with open-source and commercial tools; other integrations are expected
IP Issues

• IP process followed

• IP Log: http://www.eclipse.org/subversive/iplog.php

• Project released under EPL
IP Issues – Subversive Distribution

• Legal issue: both SVN clients, JavaHL and SVNKit are not EPL compatible: JavaHL uses LGPL libraries; SVNKit license is incompatible with EPL

• The Eclipse Foundation does not distribute non-EPL compatible files from its servers

• Current solution – Subversive is distributed from two update sites:
  ▪ EPL-compatible Subversive plug-in is distributed from eclipse.org
  ▪ EPL-incompatible SVN Connectors are distributed from polarion.org
IP Issues – Next Steps

• Problems with current distribution approach:
  - No one-click installation (required features should be installed from both update sites: eclipse.org and polarion.org)
  - EPL-incompatibility of required SVN Connectors is a blocker for Subversive inclusion into standard Eclipse distribution

• Next steps: issue discussion on Eclipse Legal Council and Eclipse Board
• Goal: find a solution which allows Subversion inclusion into standard Eclipse distribution (EPP packages)

• Proposed solution:
  - Board allows GPL code to be distributed from eclipse.org
  - Or
  - Board allows GPL code to be required
Project Plan

• Project plan available at: