Subversive Galileo Review

Review date: 10 June 2009
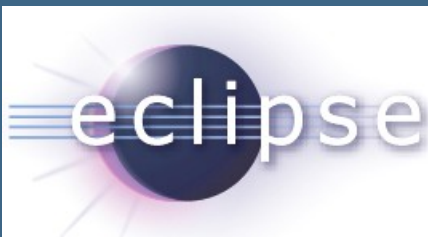
SUBVERSIVE

Presentation prepared by: Igor Vinnykov (Polarion Software)
Send your feedback to: subversive-dev@eclipse.org

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
    - Available on site: http://www.eclipse.org/subversive/documentation/index.php

- 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_Noteworthy

APIs

- API conforms with Eclipse Quality standards
- API description: http://www.eclipse.org/subversive/integrations.php
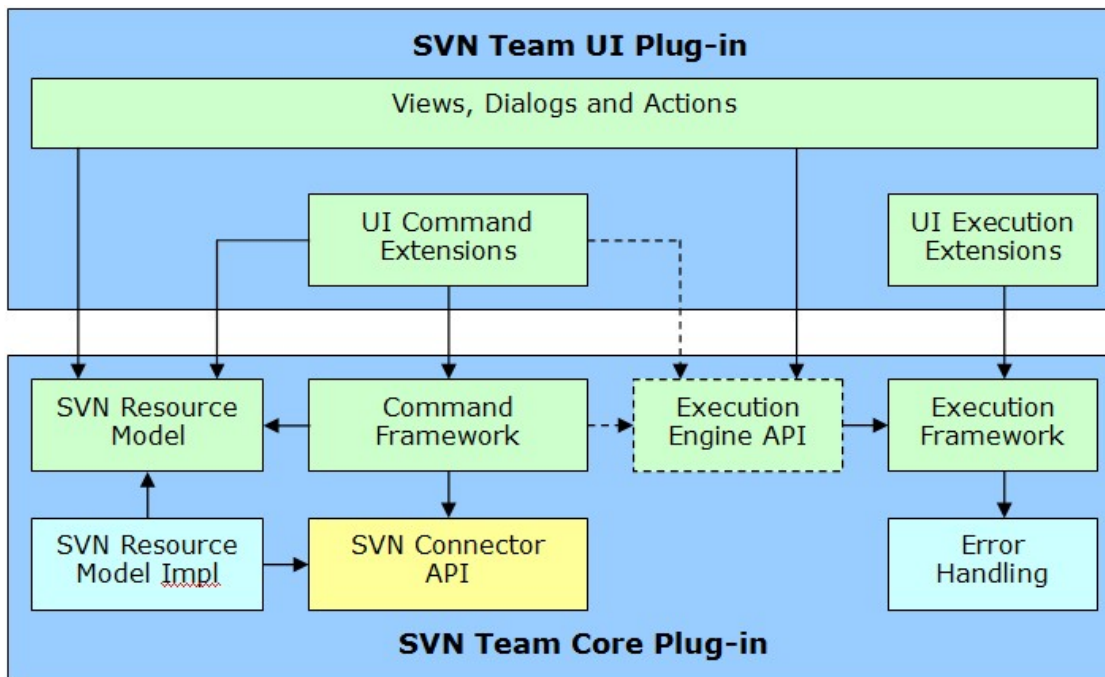
Architectural Issues

- 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

- Schedule

Subversive Milestone	Eclipse Milestone	Date
RC1	Eclipse 3.5RC1	May 19, 2009
RC2	Eclipse 3.5RC2	May 26, 2009
RC3	Eclipse 3.5RC3	June 2, 2009
RC4	Eclipse 3.5RC4	June 9, 2009
RC5	Eclipse 3.5RC5	June 16, 2009

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
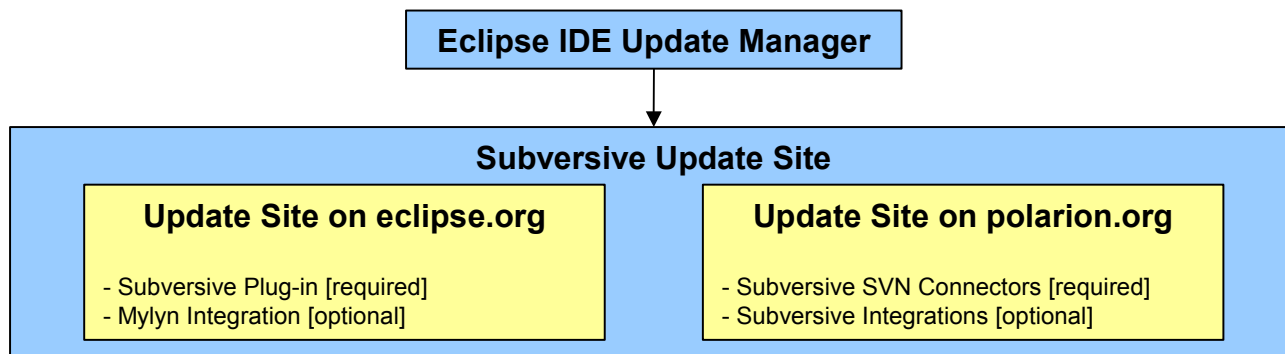
IP Issues

- 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

Eclipse IDE Update Manager

Subversive Update Site

Update Site on eclipse.org

- Subversive Plug-in [required]
- Mylyn Integration [optional]

Update Site on polarion.org

- Subversive SVN Connectors [required]
- Subversive Integrations [optional]

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:
  http://www.eclipse.org/projects/project-plan.php?projectid=technology.subve