

Subversion and Fast Track A Perfect Match





Subversive Overview

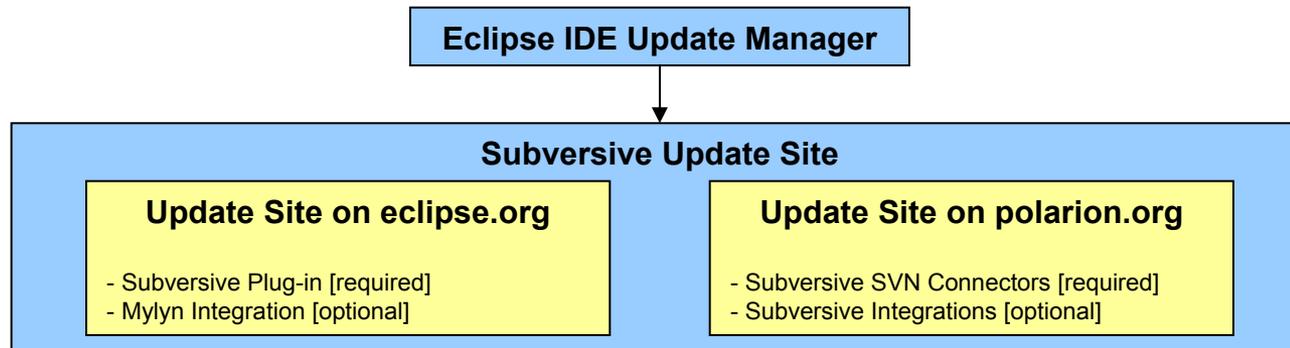


- Project active since March 2005
- Official Eclipse project:
 - Project home: www.eclipse.org/subversive
 - Incubation phase started November 2007
 - Subversive is a part of the Ganymede simultaneous release
- More than 25 000 users
- Is in TOP 10 popular projects at EPIC



IP Issues – Subversive Distribution

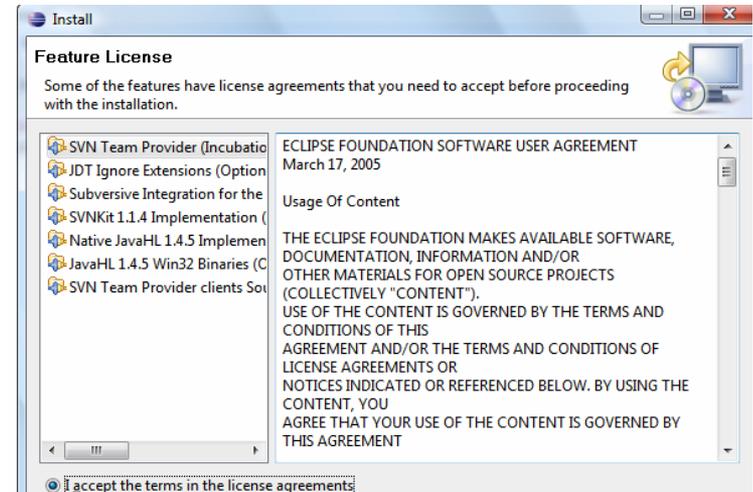
- Legal issue: both SVN clients, JavaHL and SVNKit are not EPL compatible: JavaHL uses LGPL libraries; SVNKit license is incompatible with EPL
- The Eclipse Foundation does not distribute non-EPL compatible files from its servers
- Current solution – Subversive is distributed from two update sites:
 - EPL-compatible Subversive plug-in is distributed from eclipse.org
 - EPL-incompatible SVN Connectors are distributed from polarion.org





Installing Subversive

- Download of SVN connectors necessary due to incompatible licensing agreements
- Use Eclipse update mechanism to keep up to date
- Distro available at <http://www.polarion.com>





Features

- Checkout:
 - New option "Ignore Externals"
 - Share:
 - Automatic project sharing
 - Commit:
 - Spell checking
 - Displaying conflicts
 - New actions for resolving conflicts
 - History:
 - Compare revisions
 - New action: "Extract"
 - 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
 - Merge:
 - Patch root selection
 - New "Merge" view
- "Extract"
- "Remote" submenus
- Incoming changes for folders
- Author's name
- selection





Jumpstart Demo



SUBVERSIVE



Perspective - Repository Exploring

The screenshot shows the Eclipse IDE's SVN Repository Exploring perspective. On the left, the 'SVN Repositories' view displays a tree structure for the repository 'http://maximus/subversive'. The 'trunk 13' folder is selected, showing subfolders 'java_project 13' and 'some_project 12', along with 'ROOT 13' and 'REVISIONS'. A callout box titled 'Repository Structure' points to this view and lists: '- browse and operate directly on SVN repository' and '- checkout operations'. On the right, the 'SVN Repository Browser' view shows a table of repository contents for the selected path. A callout box titled 'Detailed repository view' points to this table and lists: '- latest changes, properties, lock owner, revision, change date'. The table contains the following data:

Name	Revision	Last Changed At
..	13	24.07.2007 9:41:55
java_project	13	24.07.2007 9:41:55
some_project	12	24.07.2007 9:06:09



Subversive - History View

The screenshot shows the Subversive History View interface. A 'List of Changes' window is open, displaying a table with columns for Revision and Comment. The first row shows a revision with a comment 'Initial import of projects...'. A callout box points to the revision number, stating '- Mixed mode possible: local and repository changes'. Another callout box points to the comment, stating '- clickable links to fast track'. Below the history view, a file explorer shows the project structure, and a table lists the files and their paths.

Revision	Comment
*(77)	<current version>
*77	Initial import of projects...

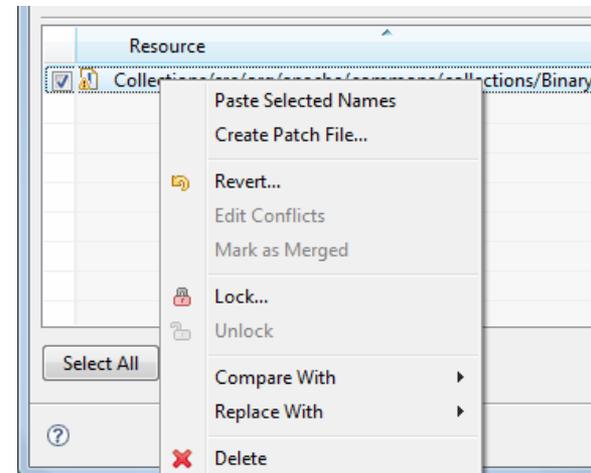
Initial import of projects
Linked workitems:
[MainProject/MP-ZLW7AX](#)

Name	Path	Copied
.project	Sample Projects/MainProject/trunk/MyJavaProject	
.classpath	Sample Projects/MainProject/trunk/MyJavaProject	
src	Sample Projects/MainProject/trunk/MyJavaProject	
de	Sample Projects/MainProject/trunk/MyJavaProject/src	
polarion	Sample Projects/MainProject/trunk/MyJavaProject/src/de	



What's new – Checkout, Share, Commit

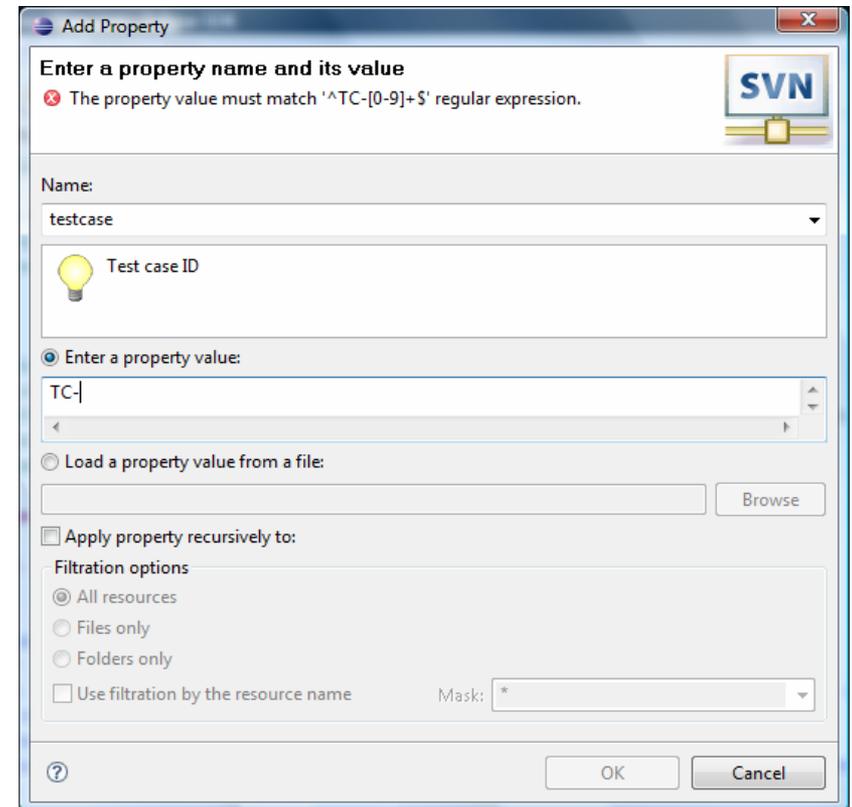
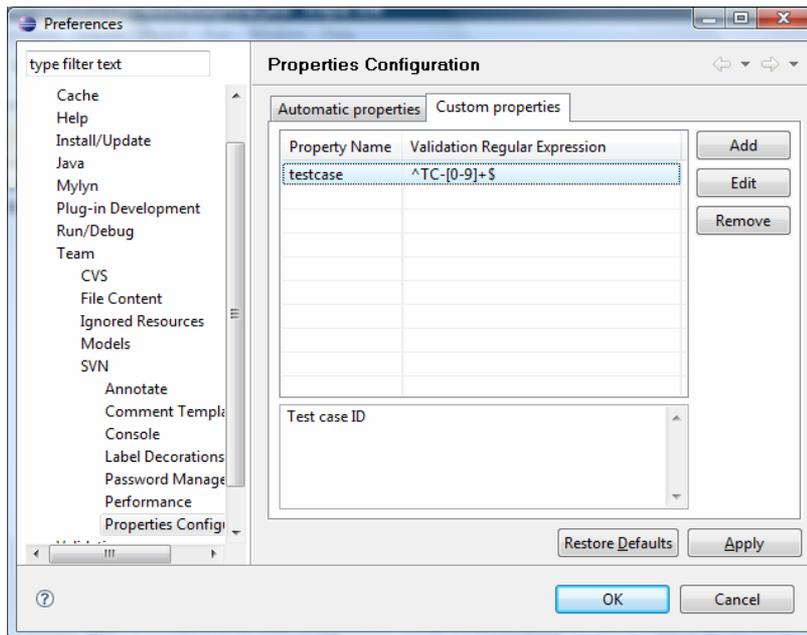
- Checkout:
 - New option “ignore externals” in ‘Find/Checkout As’ wizard
- Share:
 - Automatic project sharing
- Commit
 - Spell checking
 - Displaying conflicted resources in the Commit dialog
 - New actions for resources:
 - Create Patch File...
 - Add to svn:ignore
 - Edit Conflicts
 - Lock/Unlock
 - Replace with
 - Compare with





What's new - Properties

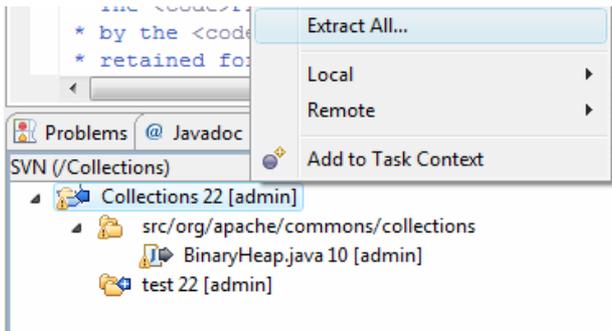
- Properties:
 - Definition of custom properties
 - Property values validation
 - Support of tsvn properties



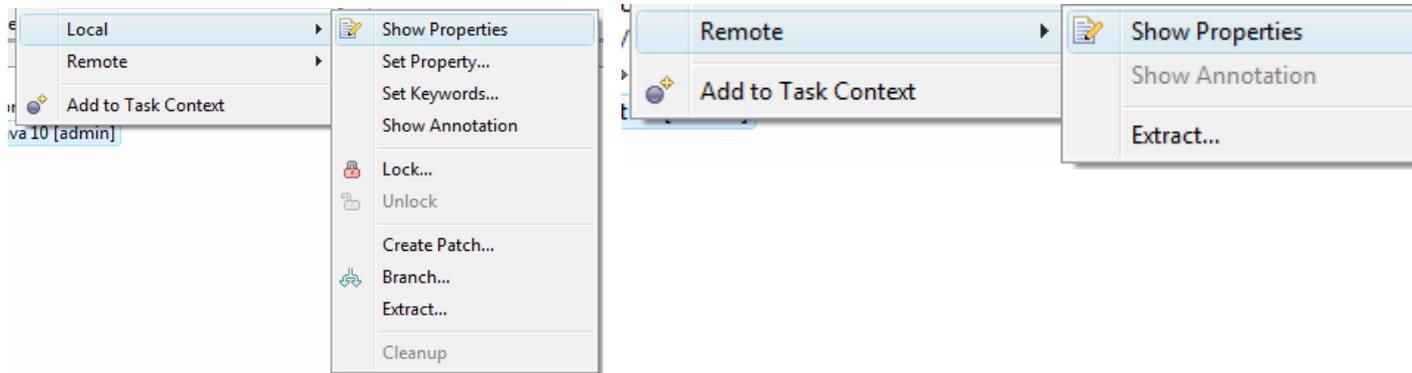


What's new - Synchronize

- New action: Extract



- Local and Remote submenus:



- Displaying incoming changes for folder



What's new - Repository

- Override author's name

The screenshot shows a dialog box titled "Edit Repository Location" with a standard Windows-style title bar. The main heading is "Enter Repository Location Information" with a sub-instruction: "Define the SVN repository location information. You can specify additional settings for proxy and svn+ssh, https connections." An SVN logo is visible in the top right corner of the dialog.

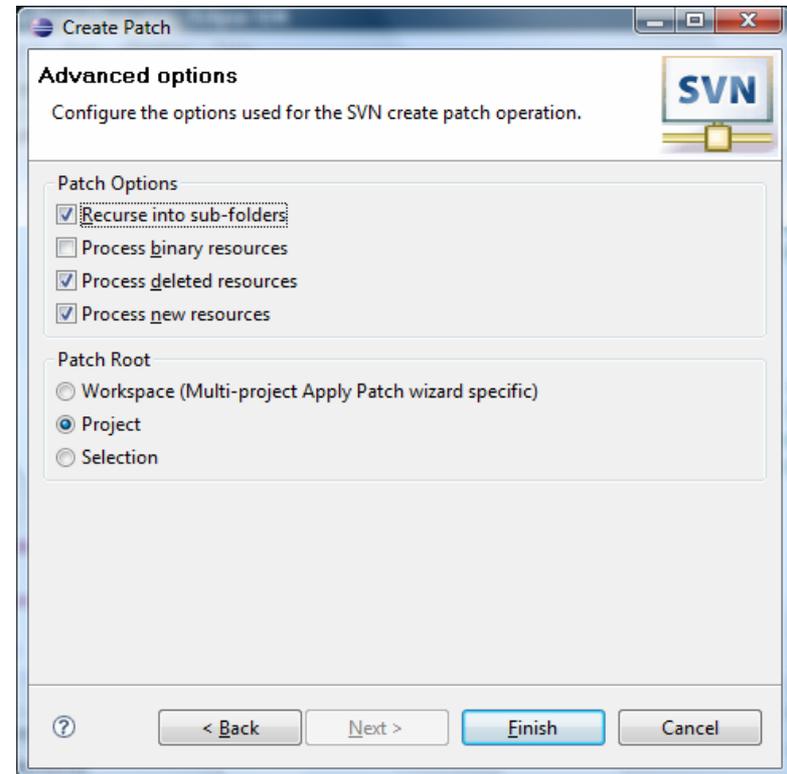
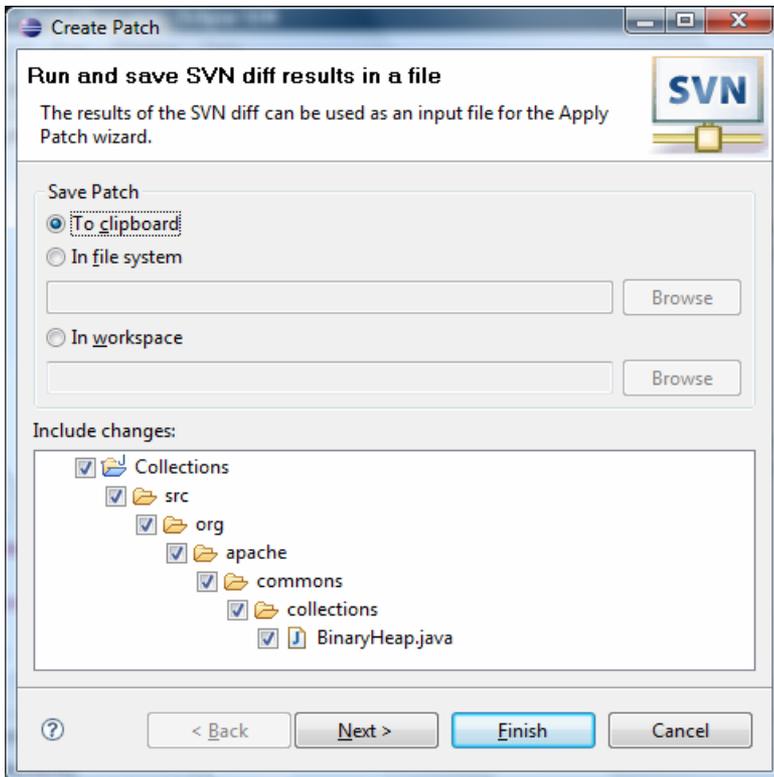
There are five tabs: "General", "Advanced", "SSH Settings", "SSL Settings", and "Proxy". The "General" tab is selected. It contains the following elements:

- Enable Structure Detection
- Resource Names section with three text input fields:
 - Trunk: trunk
 - Branches: branches
 - Tags: tags
- Override author name with represented below:
- A dropdown menu currently showing "admin".
- "Show Credentials For:" dropdown menu showing "<Repository Location>" with a close button (X).
- Validate Repository Location on finish
- A "Reset Changes" button.
- At the bottom, there is a help icon (?), a "Finish" button, and a "Cancel" button.



What's new - Patches

- Resources selection
- Patch root selection





What's new – History

- Revision grouping:

The screenshot shows the History window in the Polarion IDE. The window title is "History" and it contains a table of revisions grouped by time periods. The table has columns for Revision, Date, Changes, Author, and Comment. The revisions are grouped into "Today" and "Last Week".

Revision	Date	Changes	Author	Comment
Today				
22	19.03.2008 14:02:54	1	admin	Created folder remotely
Last Week				
*21	12.03.2008 5:48:45	3	admin	add data
18	12.03.2008 4:45:48	1	admin	[no comment]

- Local history:

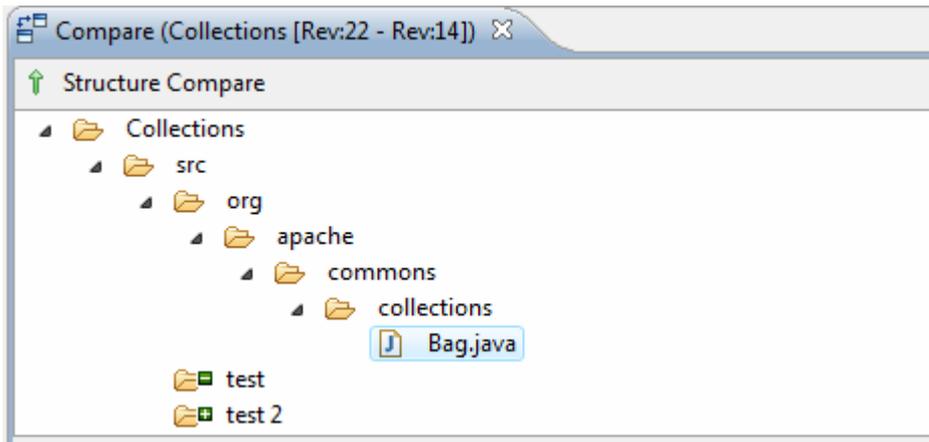
The screenshot shows the History window in the Polarion IDE, displaying local history for the file "Collections/src/org/apache/commons/collections/BinaryHeap.java". The window title is "History" and it contains a table of revisions grouped by time periods. The table has columns for Revision, Date, Changes, Author, and Comment. The revisions are grouped into "Today", "Yesterday", and "This Month".

Revision	Date	Changes	Author	Comment
Today				
*(10)	19.03.2008 14:37:23			<current version>
Yesterday				
	18.03.2008 17:47:14			
This Month				
*10	10.03.2008 18:31:52	304	admin	Share project "Collections" into "http://aquilon:8080"



What's new – History, part 2

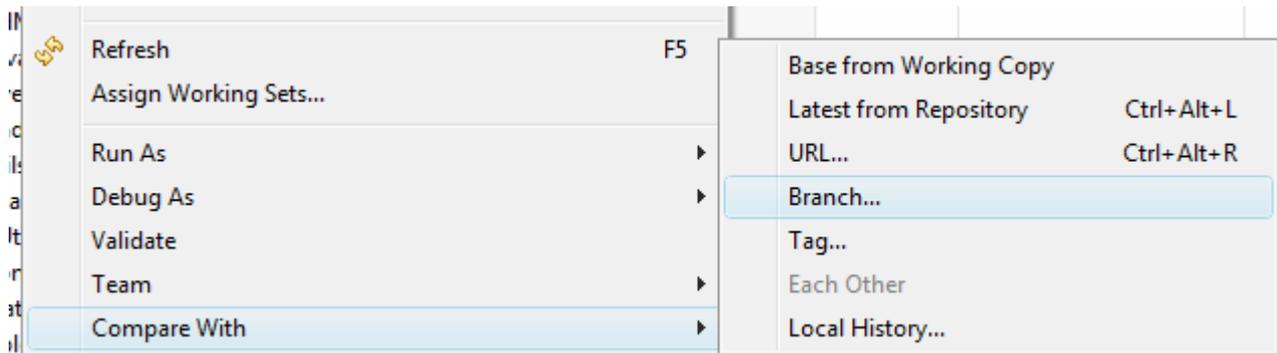
- Extract action
- Compare revisions for folders



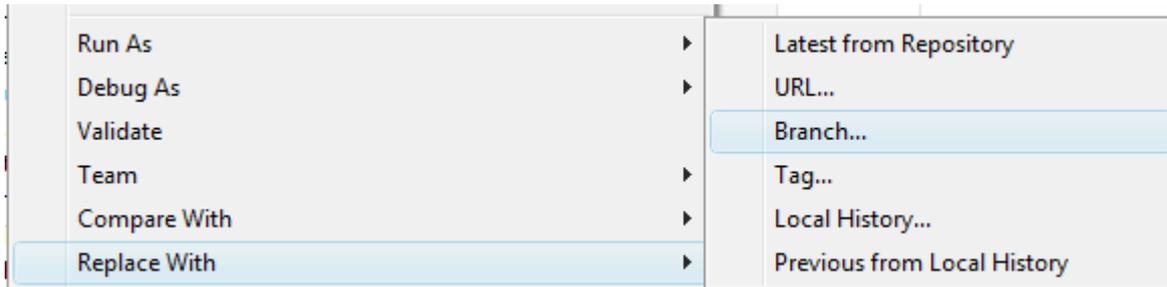


What's new – Branches, Tags

- Compare with branch/tag



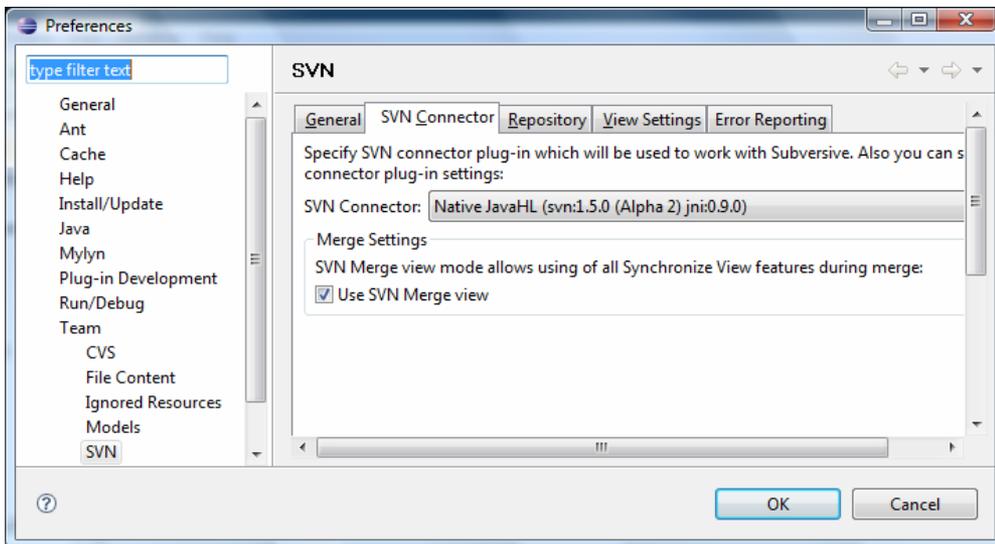
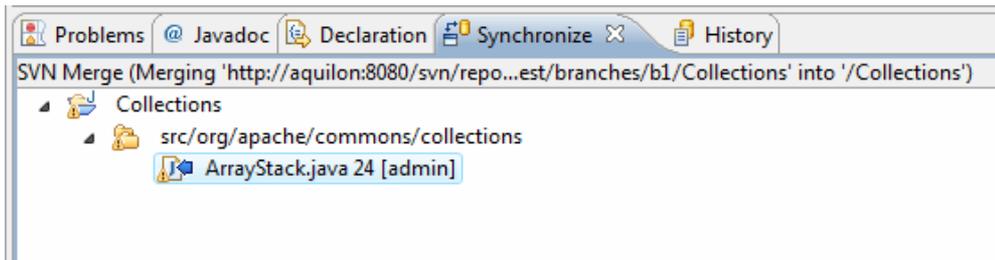
- Replace with branch/tag





What's new - Merge

- New merge view





Project plan

- Upcoming features:
 - SVN 1.5 merge tracking
 - SVN 1.5 sparse directories
 - SVN 1.5 change lists



Integrations

- Existing integrations:
 - Mylyn
 - Buckminster
 - FastTrack
 - Project Set
 - Zend Studio
- Subversive architecture and API documentation:
 - <http://www.eclipse.org/subversive/integrations.php>



Introduction Fast Track



- Offline issue tracker based on subversion
- Integrated in Eclipse
- Items are stored in XML format and checked in to SVN
- Polarion Community Server to enable central email notification, item configuration and webinterface

Resolved Work Items in demolibrary.tracker' - 6 work item(s).

T...	ID	Title	Project	Pri...	S...	S...	Author	Assignee
	DEMOLIBRARY-10	Enable Book Searching	demolibrary.tr...	51.0			John Requirement	Robert Project
	DEMOLIBRARY-7	Enable Book Insertion	demolibrary.tr...	33.0			John Requirement	Robert Project
	DEMOLIBRARY-14	Book Insertion Functionality	demolibrary.tr...	33.0			Robert Project	Developer
	DEMOLIBRARY-1	Create Book Entry	demolibrary.tr...	33.0			John Requirement	Robert Project
	DEMOLIBRARY-20	Runs On Java 1.5	demolibrary.tr...	25.0			Robert Project	Developer
	DEMOLIBRARY-4	Runs On A Pentium III	demolibrary.tr...	25.0			John Requirement	Robert Project



Fast Track Features

- Eclipse Integration
 - Offline client
 - Linking of svn commits to workitems
 - Two way traceability
 - Merging of workitems
 - Linking of Workitems to documents
 - Attachments
 - Own item types
- Free Polarion Components
 - Email notification
 - Webclient
 - Multi-project views
 - Roadmap
 - Central user management (LDAP)





Jumpstart Demo





Synchronize Items

- Subversive is used to synchronize workitems
- Same concept as with source code

Work Item Structure Compare

- severity
- priority
- status
- resolution
- description
- categories
- category
- previous status

Work Item Compare

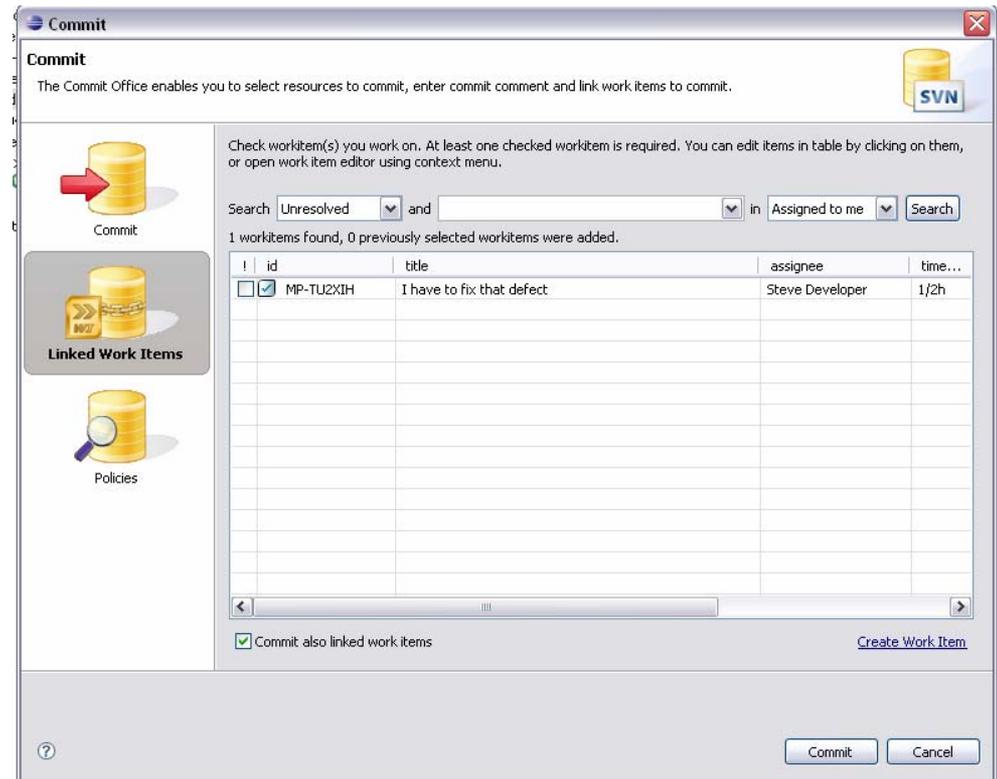
Local File		Remote File (18 [developer])	
Property	Value	Property	Value
title	Enable Book Searching	title	Enable Book Searching
type	Requirement	type	Requirement
created	Fri Jun 03 18:28:34 CEST 2005	created	Fri Jun 03 18:28:34 CEST 2005
author	John Requirement	author	John Requirement
severity	Minor	severity	Normal
priority	S1.0	priority	S2.0
assignee	Robert Project	assignee	Robert Project
status	Resolved	status	Open
resolution	Incomplete	description	Enable Book Searching
description	<P>Enable Book Searching</P><P> </P><P></P></td> <td>hyperlinks</td> <td></td>	hyperlinks	
hyperlinks		categories	Backend
categories		category	Backend
category	Tests	custom fields	
category	Backend	linked revisions	
custom fields		linked work items	
linked revisions		planning constraints	
linked work items		remaining estimate	7d
planning constraints			
previous status	Open		
remaining estimate	7d		

Team s
New
Delete
Rename
Refresh Shortcuts
Team
Compare With
Replace With
Restore from Local History...
PDE Tools
Properties
Synchronize with Repository
Commit...
Update
Create Patch...
Apply Patch...
Synchronize Work Items
Revert...
Add to Version Control...
Add to Synignore...
Lock...
Unlock...
Edit Properties
Tag...
Branch...
Merge...
Switch...
Show Resource History
Copy...
Export...
Cleanup
Disconnect
Share Project...



Linking Changes to Items

- Pick item in icon picker before you commit
- Items can be changed before
 - Add time spent and other status info
- Policies can block commits if code does not compile





Analyzing Older Changes

- Click on linked revisions of an item to find out what changes has been performed in ist context

Revision	Date	Changes	Author	Comment
*113	Jul 2, 2008 9:24:16 AM	1	[no author]	Linked workitems:...
104	Jun 30, 2008 5:29:07 PM	1	admin	merged my changes...
103	Jun 30, 2008 5:25:49 PM	1	admin	[no comment]
102	Jun 30, 2008 5:24:59 PM	1	admin	[no comment]
101	Jun 30, 2008 5:22:59 PM	1	admin	[no comment]
100	Jun 30, 2008 5:20:05 PM	1	admin	[no comment]

- Click on history to find out what items are related to a svn commit

Work Item MP-TU2XIH

This Work Item was created by **System Administrator** on 6/30/08 5:42 PM. Last updated on 7/2/08 9:24 AM

Title: I have to fix that defect

General

Define basic Work Item characteristic. Custom fields and workflow actions depend on Work Item type.

Type: Task
Severity: Normal
Project: MainProject



Web Interface

- Roadmap view
 - Open items for the different releases
 - Release notes

Work Items > MainProject

Table Live Plan Road Map Multi Edit Matrix Time Sheet

Create Search: All and

--- Current - rel1 (2008-07-30)

ID	Title	Priority	Severity	Status	Author
<input checked="" type="checkbox"/> MP-TU2XIH	another item created by me	25.0	High	Open	System Administrator
<input checked="" type="checkbox"/> MP-N941FS	Another little change in Eclipse	33.0	Low	Open	ts
<input checked="" type="checkbox"/> MP-21	Task in Polarion	25.0	Low	Open	System Administrator



Project Heart Beat

- Recent changes in the project
 - SVN commits
 - Work item changes

Overview > MainProject

Project Overview

Description: This is the description of our project
Lead: Tim
Active:
Repository URL: http://hbooks:80/repo/Sample%20Projects/MainProject

Project Start/Finish: 2008-06-30 /--
Team Members: 0

Work Items

Next Time Point: rel1 (2008-07-30)
Unresolved Work Items: 5

Last 5 created work items:

Work Item	Created	Author
<input checked="" type="checkbox"/> MP-TU2XIH - another item created by me	2008-06-30 17:42	System Administr
<input checked="" type="checkbox"/> MP-N941FS - Another little change in Eclipse	2008-06-30 17:29	ts
<input checked="" type="checkbox"/> MP-21 - Task in Polarion	2008-06-28 14:34	System Administr
<input checked="" type="checkbox"/> MP-A9DWAWU - Child task my title change test	2008-06-27 17:31	System Administr
<input checked="" type="checkbox"/> MP-ZLW7AX - initial setup	2008-06-27 17:21	ts

[More](#)

Repository

Total Commits: 31
Total Files: 14

Last 5 revisions:

Revision	Created	Author
113 - Linked workitems: MainProject/MP-TU2XIH	2008-07-02 09:24	
104 - merged my changes Linked workitems: MainProject/MP-I	2008-06-30 17:29	System Administr
103 -	2008-06-30 17:25	System Administr
102 -	2008-06-30 17:24	System Administr
101 -	2008-06-30 17:22	System Administr

Update | Updated: 2008-07-01 07:22 [More](#)

Announcements

Add New | 0 Announcements of 0 [More](#)

Builds

No buildable artifact defined



Becoming Subversive ?

- More information can be found under
- www.eclipse.org/subversive (Subversive)
- www.polarion.org (Fast Track, Polarion Community Server)
- www.subversion.org (Subversion)
- Visit our booth