



The Eclipse Project 2005-2006

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Project Highlights



- Eclipse 3.1 delivered June '05
 - Million download challenge
 - Team promises to be nicer to Eclipse webmaster
- Eclipse 3.2 development starts July '05
 - Development organized around six key themes,
 - 5000 defects resolved so far
- BEA contributes Java 5 annotation processing support to JDT
- Support for new platforms and JRE's
 - HP provides Eclipse 3.1.1 for HP-UX, IA 64_32/Motif,
 - Intel Mac
 - Java 5 reference platforms
 - Minimum JRE requirements identified
- Equinox becomes part of The Eclipse Project

Equinox in 3.2



- Give OSGi a first class presence on eclipse.org
 - “Eclipse Foundation Announces Support for OSGi Service Platform R4 Specification” October 11, 2005”
 - Equinox as a standalone OSGi implementation
 - Make it easy for developers to reuse the Eclipse OSGi implementation
- Runtime refactored into several plug-ins
 - More flexible (e.g. extension registry is separate)
- Several add-on services from OSGi specification implemented
 - www.eclipse.org/equinox/bundles

PDE



- **OSGi Bundle Tooling**
 - A new launcher is available to run and debug bundles with the Equinox OSGi framework
- **Plug-in Manifest Tools**
 - PDE now participates in search and refactoring
 - Quick fixes and cleanup support. For example “Organize Manifest” will remove unused dependencies and property keys
 - Support for validating build.properties files added
 - NLS tool for extracting translatable strings from manifest files

Platform - Core



- Logical Models
 - Support for interacting with logical models built above the resource layer. This allows tools that operate on files, such as repository tools, to integrate with logical model objects that don't map 1-1 with files.
 - Exploited in 3.2 by the Package Explorer, Team CVS, the Common Navigator and Team History View
- Flexible Workspaces
 - A new API for communicating with an arbitrary file system. The resources plug-in has been rewritten on top of this API to allow resources to be created that reside on other file systems.

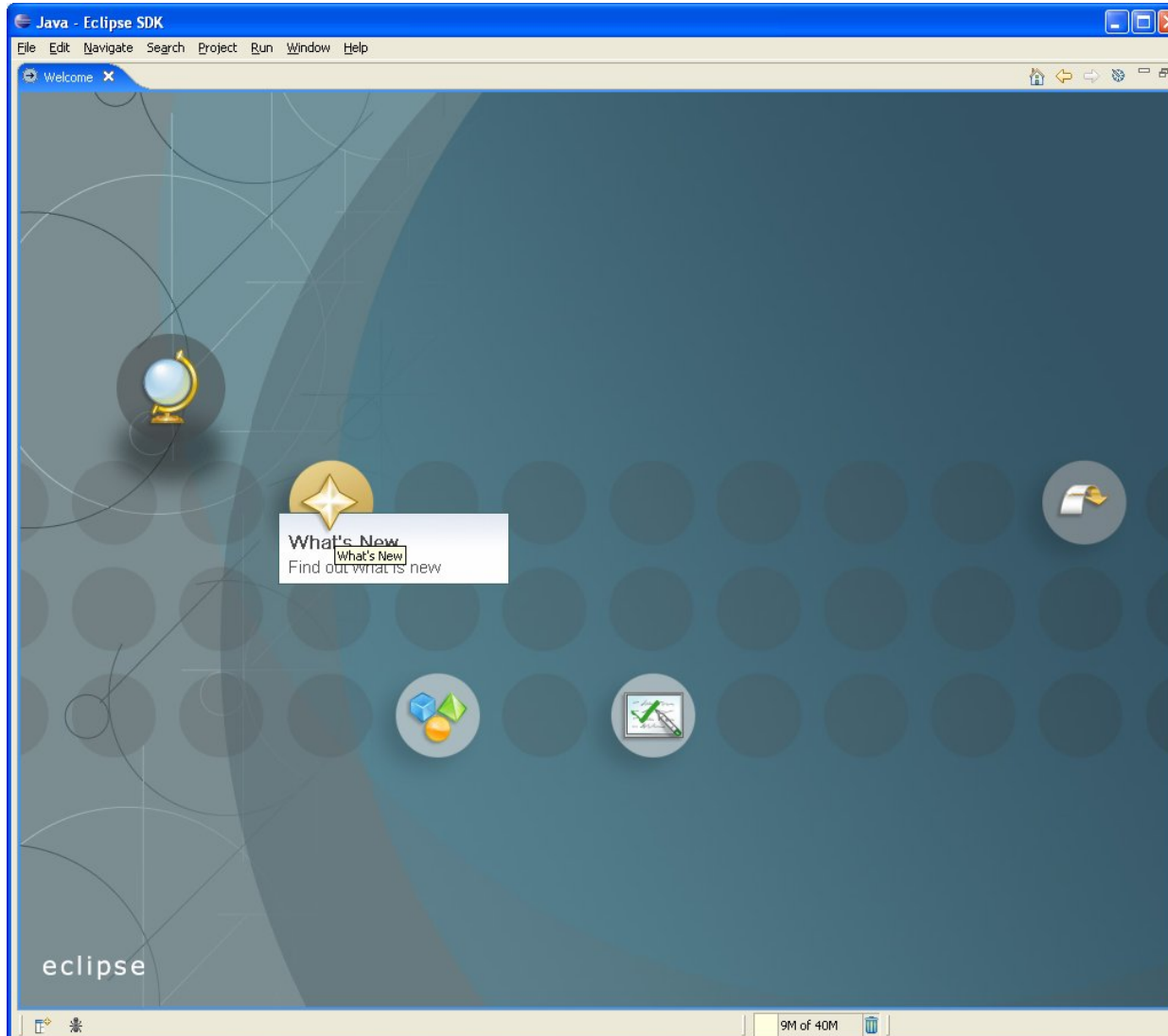
Platform – User Assistance



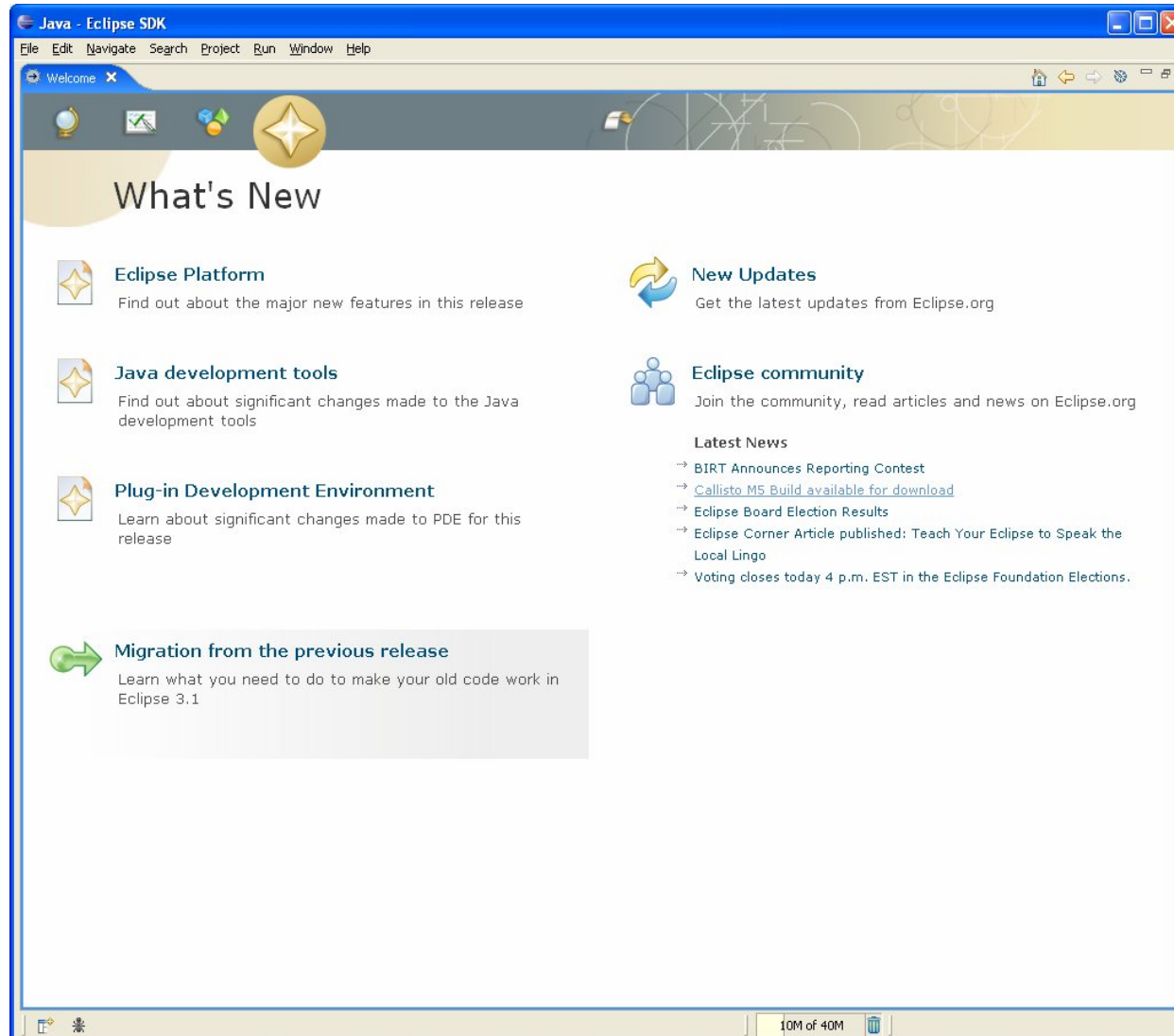
- Dynamic help content
 - Filtering supported based on running platform, enabled capabilities etc.
 - Plug-ins can contribute XHTML fragments that plug into existing documents

- Universal Welcome
 - Pluggable theme support
 - Configurable by products and end users

Welcome - 'Circles' Theme



Welcome – What's New

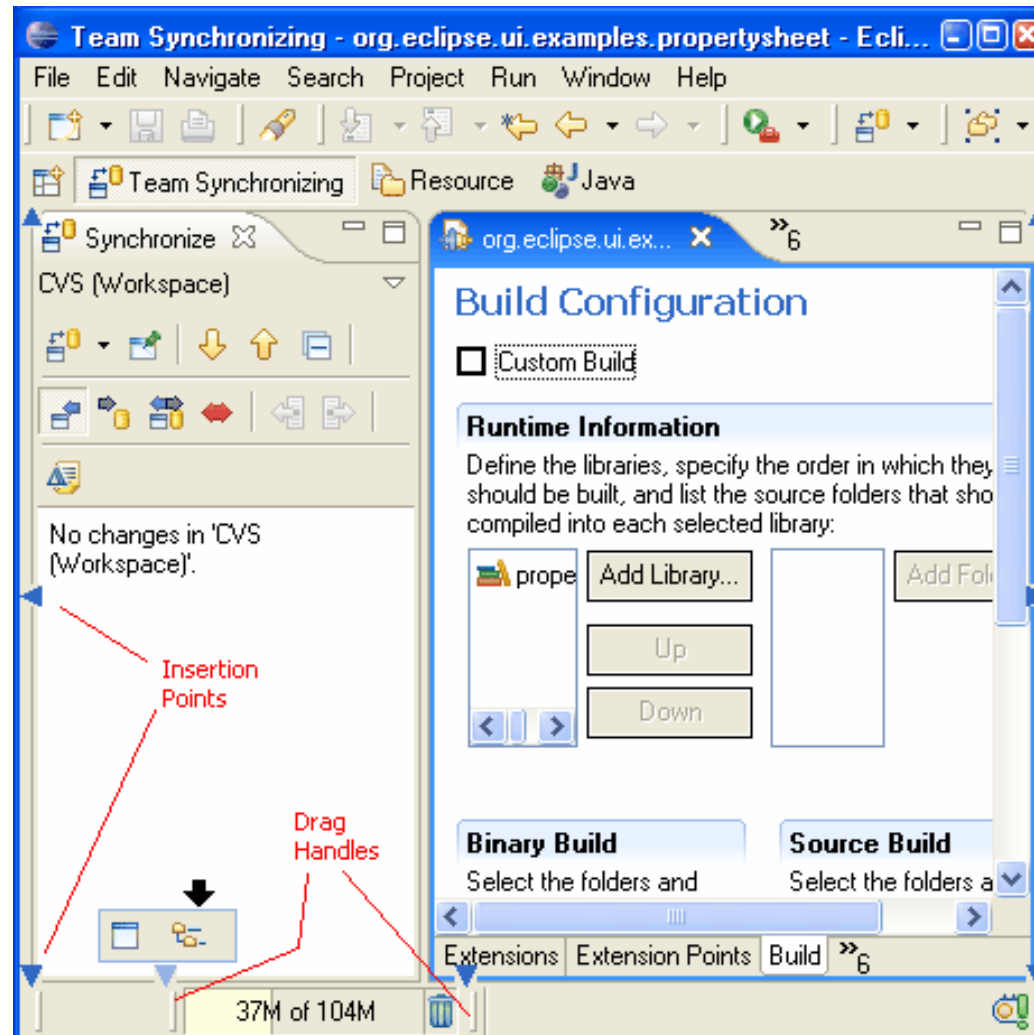


The screenshot shows the Eclipse IDE's Welcome page. The window title is "Java - Eclipse SDK". The menu bar includes "File", "Edit", "Navigate", "Search", "Project", "Run", "Window", and "Help". The main content area is titled "What's New" and contains several sections:

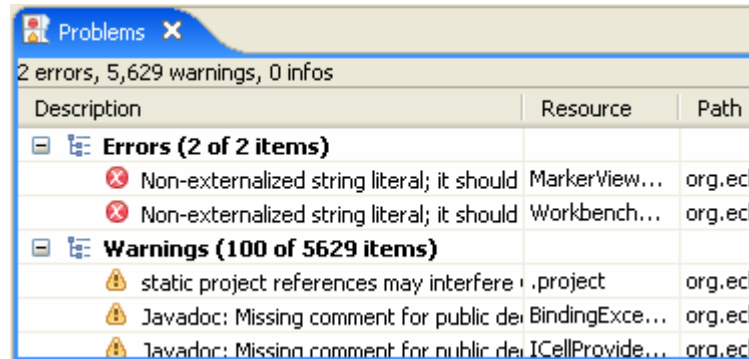
- Eclipse Platform**: Find out about the major new features in this release.
- Java development tools**: Find out about significant changes made to the Java development tools.
- Plug-in Development Environment**: Learn about significant changes made to PDE for this release.
- Migration from the previous release**: Learn what you need to do to make your old code work in Eclipse 3.1.
- New Updates**: Get the latest updates from Eclipse.org.
- Eclipse community**: Join the community, read articles and news on Eclipse.org.
- Latest News**:
 - [BIRT Announces Reporting Contest](#)
 - [Callisto M5 Build available for download](#)
 - [Eclipse Board Election Results](#)
 - Eclipse Corner Article published: [Teach Your Eclipse to Speak the Local Lingo](#)
 - Voting closes today 4 p.m. EST in the Eclipse Foundation Elections.

The bottom status bar shows "10M of 40M" and a trash icon.

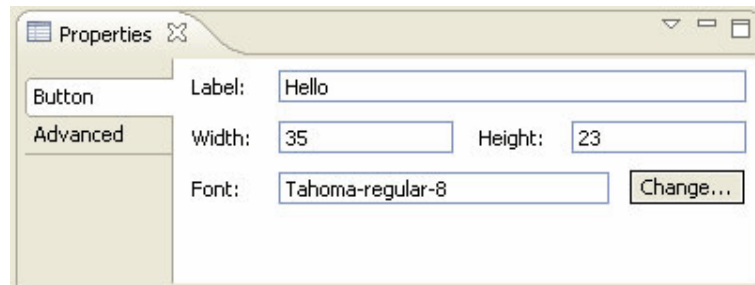
Platform UI - More Flexible



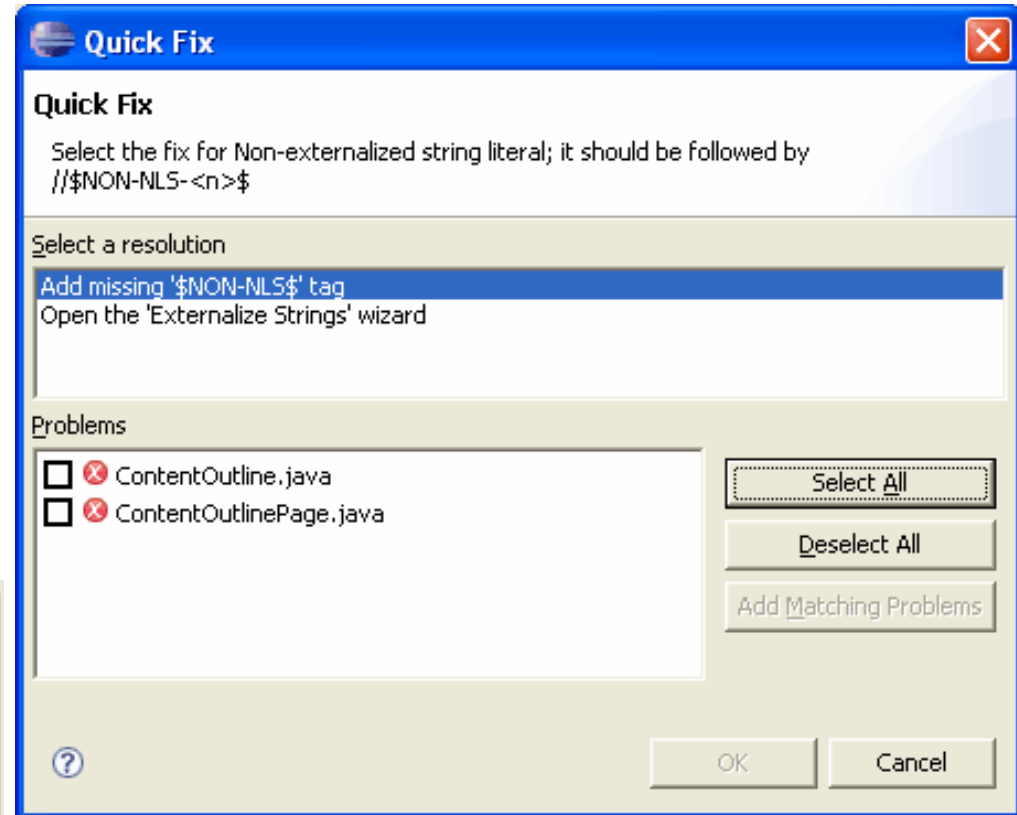
Platform UI – More Scalable



Problems view supports grouping

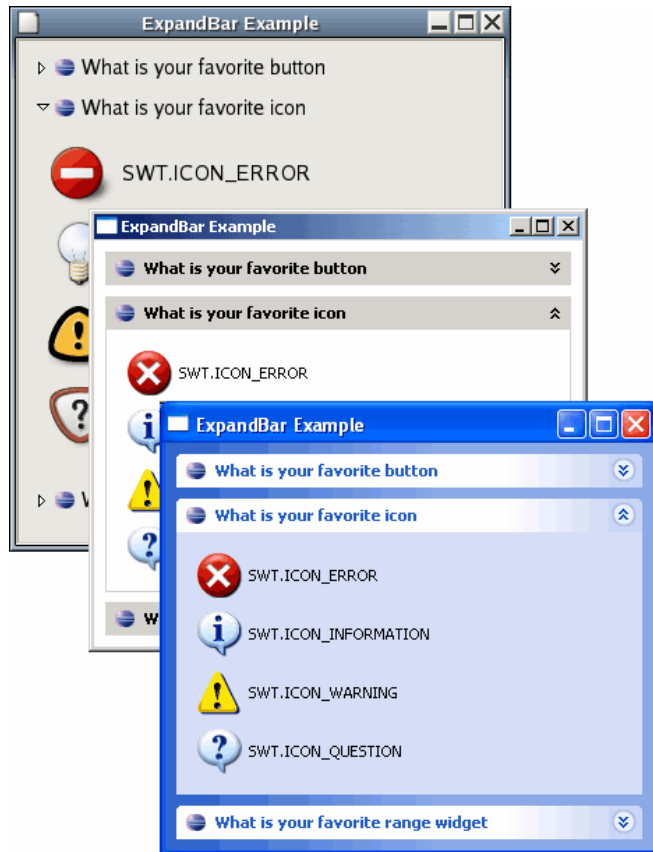


Tabbed Properties

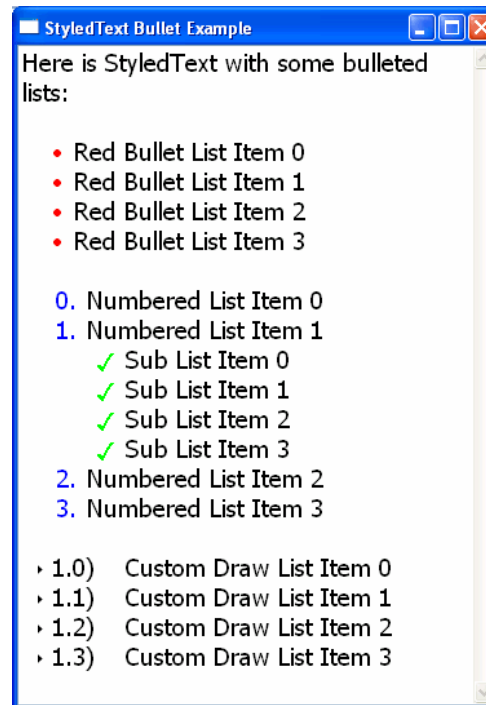


Quick Fix multiple problems

SWT



New Widgets: e.g. ExpandBar



New Styled Text features. For example: embedded objects, and bullet items



Setting background image in controls

JDT Core



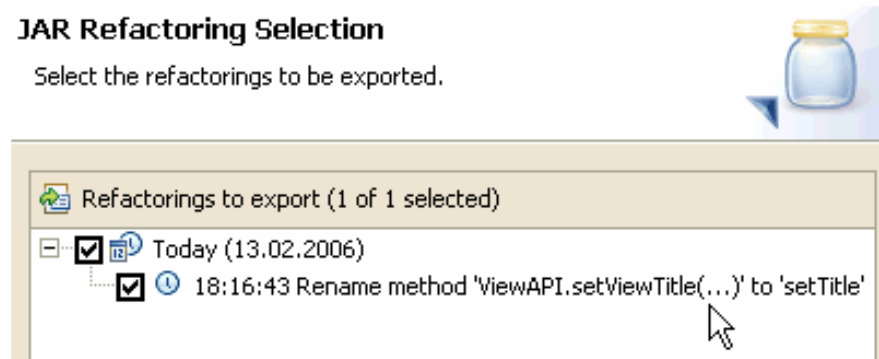
- **Enable compiler participation.**
 - JDT compilation technology opened up to enable pluggable participation.
 - Compiler participants able to introspect the Java code using DOM/AST API, perform semantic analysis, create markers etc.
- **Add support for Java SE 6 features.**
 - Compiler compliance level can be set to 6.0
- **More static analysis.**
 - Code quality can be further improved by new advanced configurable compiler diagnostics, available either when building or when editing Java files.
 - The compiler will conduct some null reference analysis in order to anticipate some NullPointerException at runtime.
 - For cleaning up code, the compiler will detect obsolete \$NON-NLS\$ tags and unused break/continue label.
 - ++ more

JDT – Refactoring and Clean Up Wizard

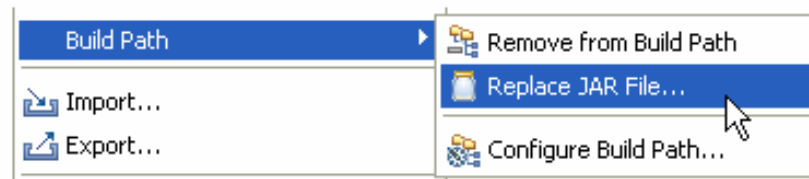


JAR Refactoring Selection

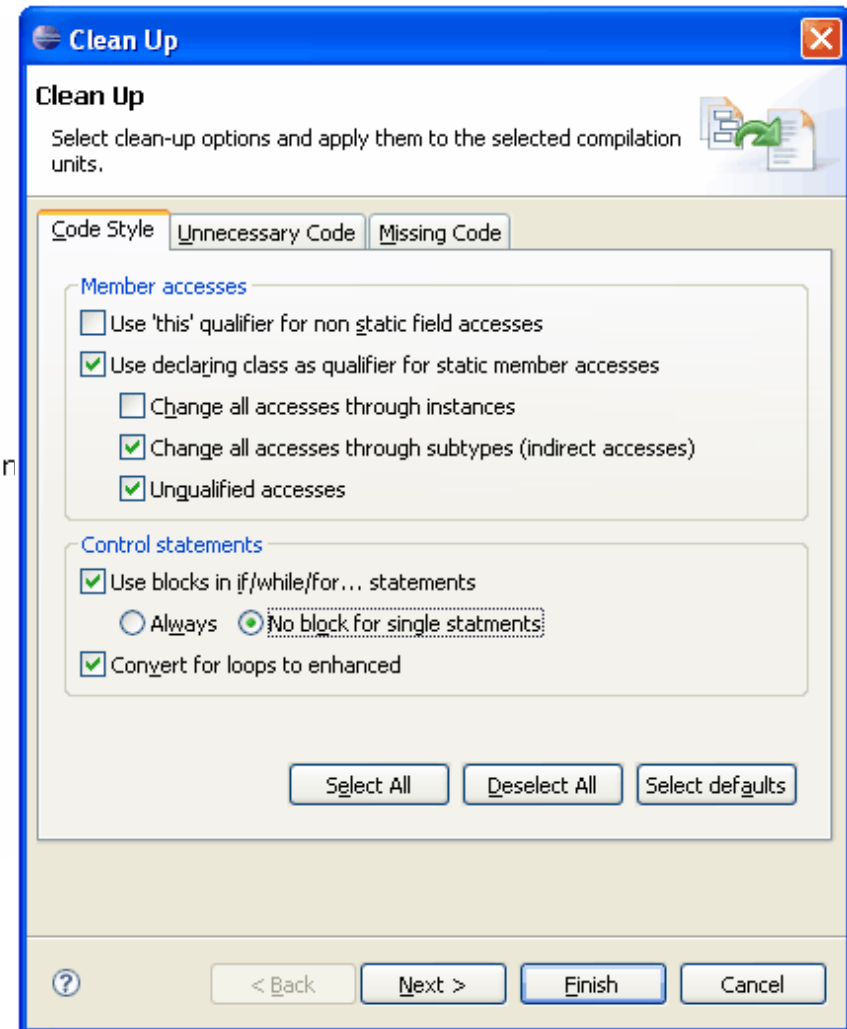
Select the refactorings to be exported.



When updating a project to a new and improved JAR, select a JAR in the Package Explorer and use **Build Path > Replace JAR File...**



This will automatically offer to replay the stored refactoring on the source files in the project.



THANK YOU!!!

