



# Helios Top 10 Features

**Eclipse Helios**

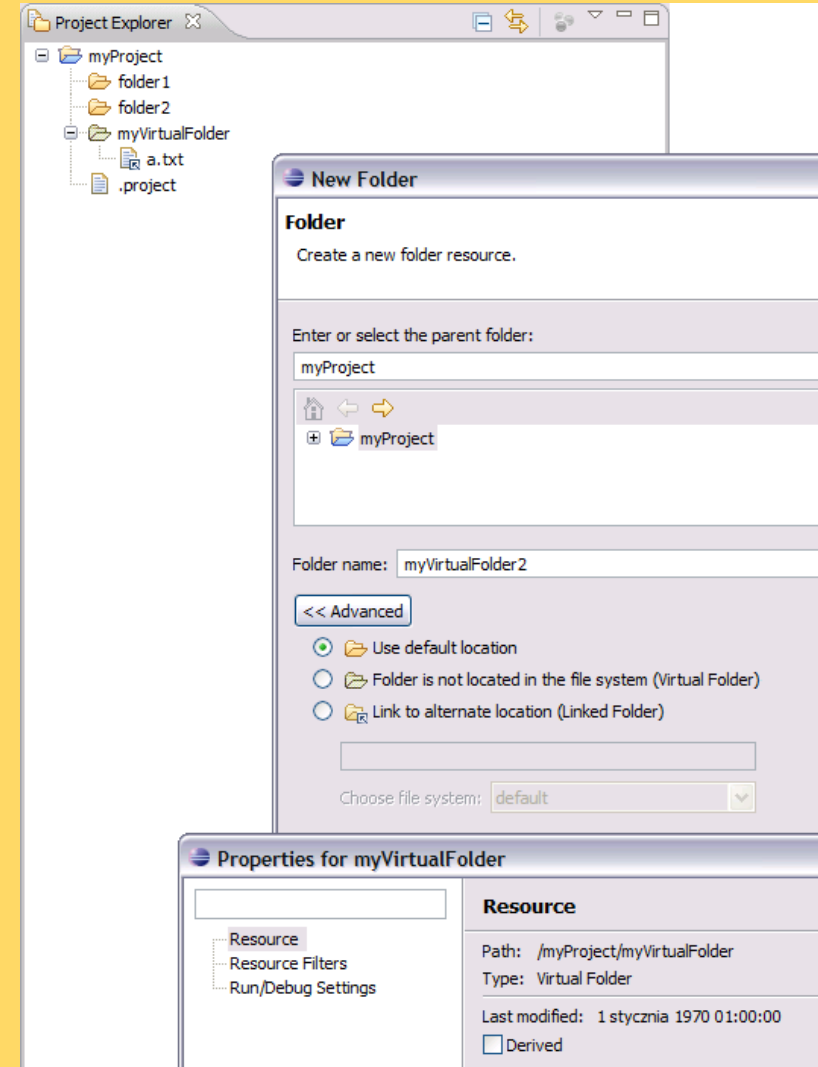
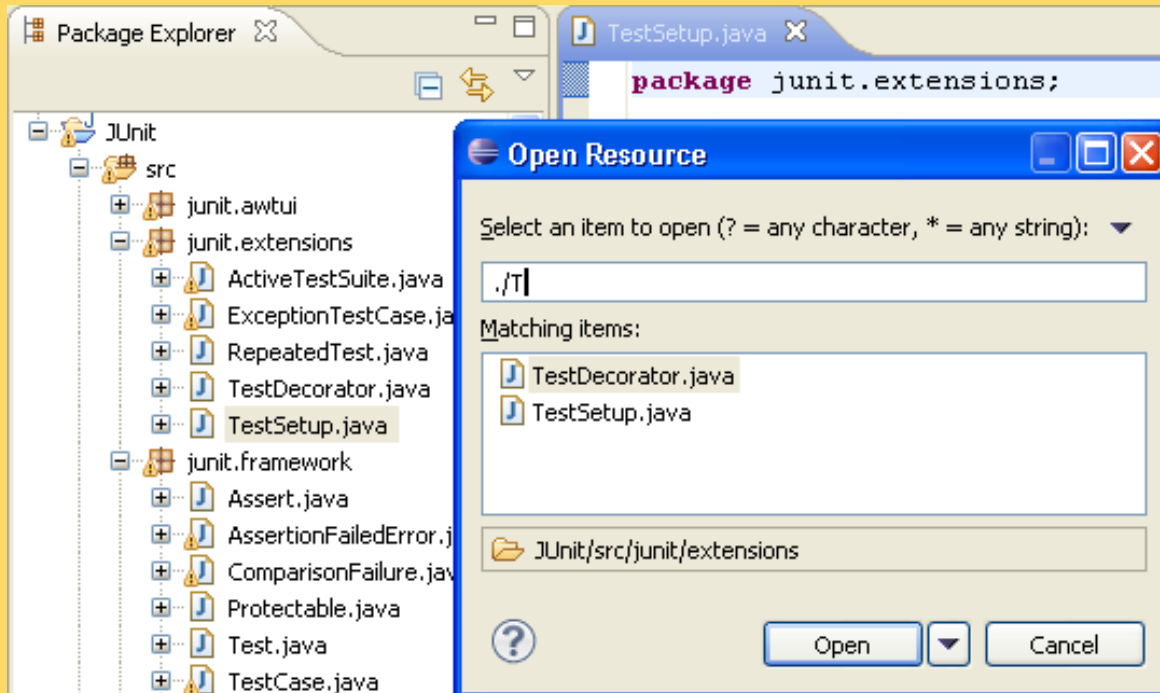


# 10. Resource Improvements

**Eclipse Helios**

# Resource Improvements

- Virtual Folders
- Open Resource Improvements
- Bug 4922 Fixed!





## **9. Feature Based Configurations**

**Eclipse Helios**

# Feature Based Configurations

Launch with:  Default Start level: 4

The features selected below and all required plug-ins will be launched.

type filter text

ID	Version	Plug-in Location
<input checked="" type="checkbox"/> org.eclipse.sdk	3.6.0.v20100125-7Q7m...	Default
<input type="checkbox"/> org.eclipse.reलग. tools	3.3.0.v20090520-44A77...	Default
<input type="checkbox"/> org.eclipse.rcp.source	3.6.0.v20100201-9GAb...	Default
<input checked="" type="checkbox"/> org.eclipse.rcp	3.6.0.v20100201-9GAb...	Default
<input type="checkbox"/> org.eclipse.platform.source	3.6.0.v20100121-9hF77...	Default
<input checked="" type="checkbox"/> org.eclipse.platform	3.6.0.v20100121-9hF77...	Default
<input type="checkbox"/> org.eclipse.pde.source	3.6.0.v20090930-7b7kF...	Default
<input type="checkbox"/> org.eclipse.pde.api.tools.ee	1.0.0.v20090512-7C-7B...	Default
<input checked="" type="checkbox"/> org.eclipse.pde	3.6.0.v20090930-7b7kF...	Default
<input type="checkbox"/> org.eclipse.jdt.source	3.6.0.v20100307-2000-...	Default
<input checked="" type="checkbox"/> org.eclipse.jdt	3.6.0.v20100307-2000-...	Default
<input type="checkbox"/> org.eclipse.help.source	1.2.0.v20090729-7e7jC...	Default
<input checked="" type="checkbox"/> org.eclipse.help	1.2.0.v20090729-7e7jC...	Default
<input type="checkbox"/> org.eclipse.equinox.p2.user	2.0.0.v20100222-887GF...	Default
<input checked="" type="checkbox"/> org.eclipse.equinox.p2.user	2.0.0.v20100222-887GF...	Default
<input type="checkbox"/> org.eclipse.cvs.source	1.2.0.v20090814-7B77F...	Default
<input type="checkbox"/> org.eclipse.cvs	1.2.0.v20090814-7B77F...	Default

Use features from workspace if available

**New Target Definition**

**Target Content**  
Edit the name, description, and plug-ins contained in a target.

Name:

Locations | **Content** | Environment | Arguments | Implicit Dependencies

The plug-ins selected below will be included in this target definition.

type filter text

- org.eclipse.cvs.source (1.2.0.v20090814-7B77F...
- org.eclipse.cvs (1.2.0.v20090814-7B77F...
- org.eclipse.equinox.p2.user.ui.source (2.0.0...
- org.eclipse.equinox.p2.user.ui (2.0.0.v20100...
- org.eclipse.help.source (1.2.0.v20090729-7e...
- org.eclipse.help (1.2.0.v20090729-7e7jCWFF...
- org.eclipse.jdt.source (3.6.0.v20100307-200...
- org.eclipse.jdt (3.6.0.v20100307-2000-7z8X...
- org.eclipse.pde.api.tools.ee.fragments (1.0.0...
- org.eclipse.pde.source (3.6.0.v20090930-7b...
- org.eclipse.pde (3.6.0.v20090930-7b7kFEdF...
- org.eclipse.platform.source (3.6.0.v2010012...
- org.eclipse.platform (3.6.0.v20100121-9hF7...
- org.eclipse.rcp.source (3.6.0.v20100201-9G...
- org.eclipse.rcp (3.6.0.v20100201-9GAbFEdF...
- org.eclipse.reलग. tools (3.3.0.v20090520-44...
- org.eclipse.sdk (3.6.0.v20100125-7Q7m-DPZ...
- Other Plug-ins (0.0.0)
- org.eclipse.equinox.concurrent (1.0.100...

Manage using:  
 Plug-ins  
 Features

Show:  
 Plug-ins  
 Source bundles

Group by:

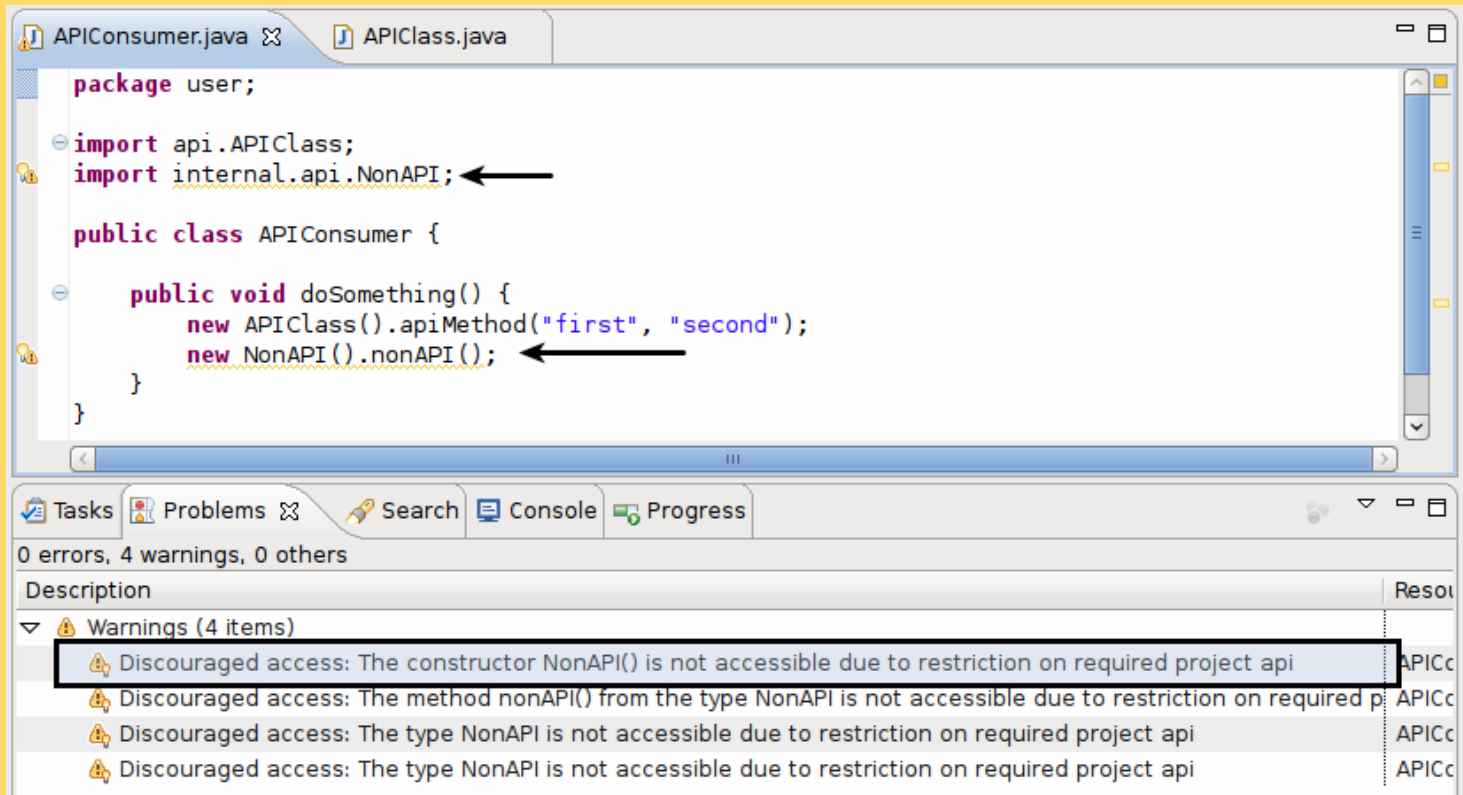
18 of 18 selected



## **8. Improvements to API Tools**

**Eclipse Helios**

# Improvements to API Tools



- Launch configuration to invoke API Use Scans

# API Migration Information

## APIClass migration information

### Summary

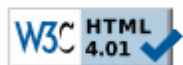
api.APIClass has 1 total un-resolved references to 1 different members.

### Migration Details

Click an entry in the table below to reveal the details of the un-resolved references made to that element.

Member		
[-] <a href="#">apiMethod(String, String) : void</a>		
VIRTUAL_METHOD		
Reference Location	Line Number	Visibility
<a href="#">user.APIConsumer.doSomething()</a>	10	API

[Back to bundle index](#)



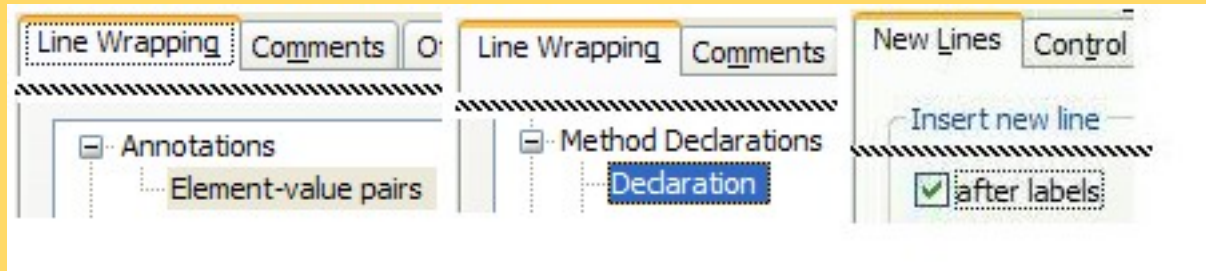
- API Migration Information
  - See if you can migrate to the next version!



## **7. Java IDE Improvements**

**Eclipse Helios**

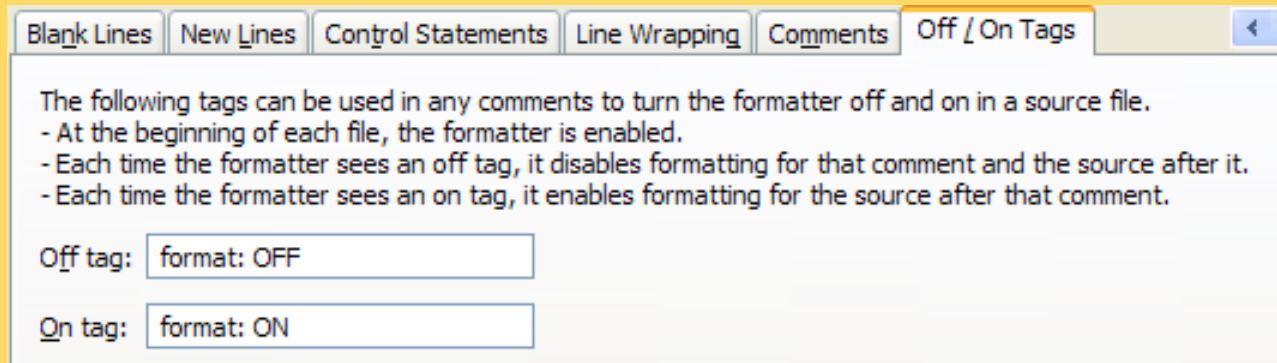
# Code Formatting Improvements



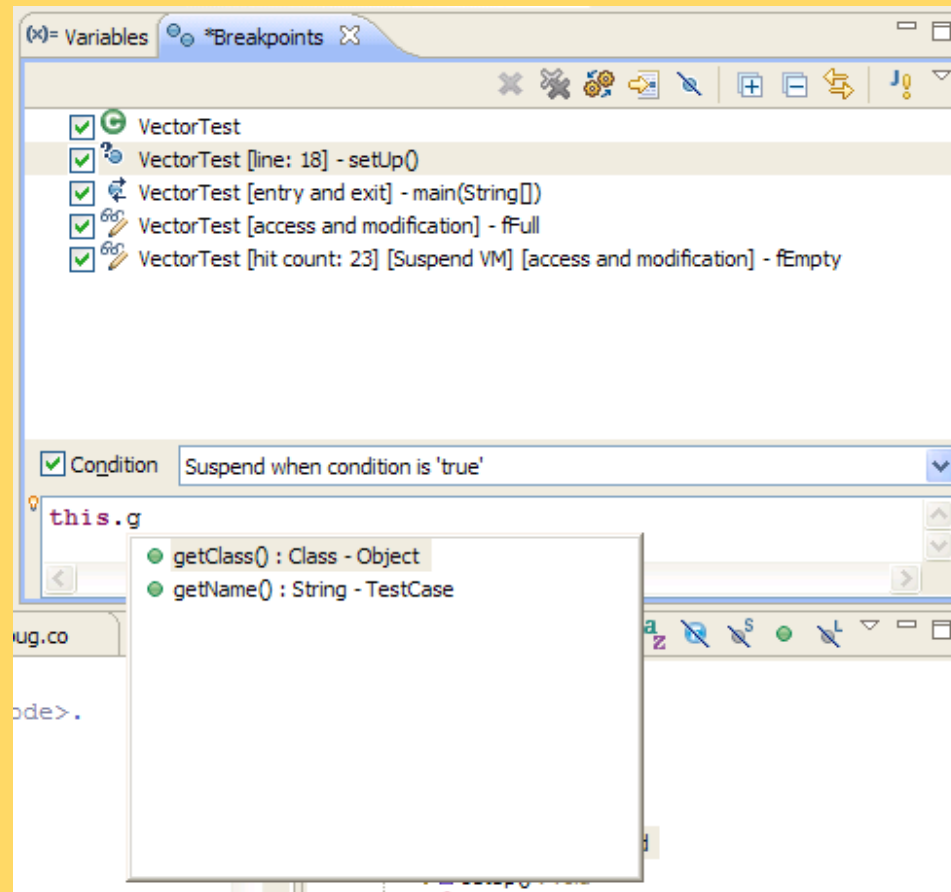
```
class Example {
    // area 1 : formatted
    int X;

    /**
     * The method foo.
     * format: OFF
     */
    public void
    foo() {
        for(int i=0;i<10;i++){
            // area 2 : unformatted !
        }/* format: ON */
        for (int i = 0; i < 10; i++) {
            // area 3 : formatted
        }
    }

    void bar() {
        int i = 0;
        while (i++ < 10) {
        }
    }
    // format: OFF
    int j=0;while(j++<10){
    // area 4 : unformatted !
    }}}}
```

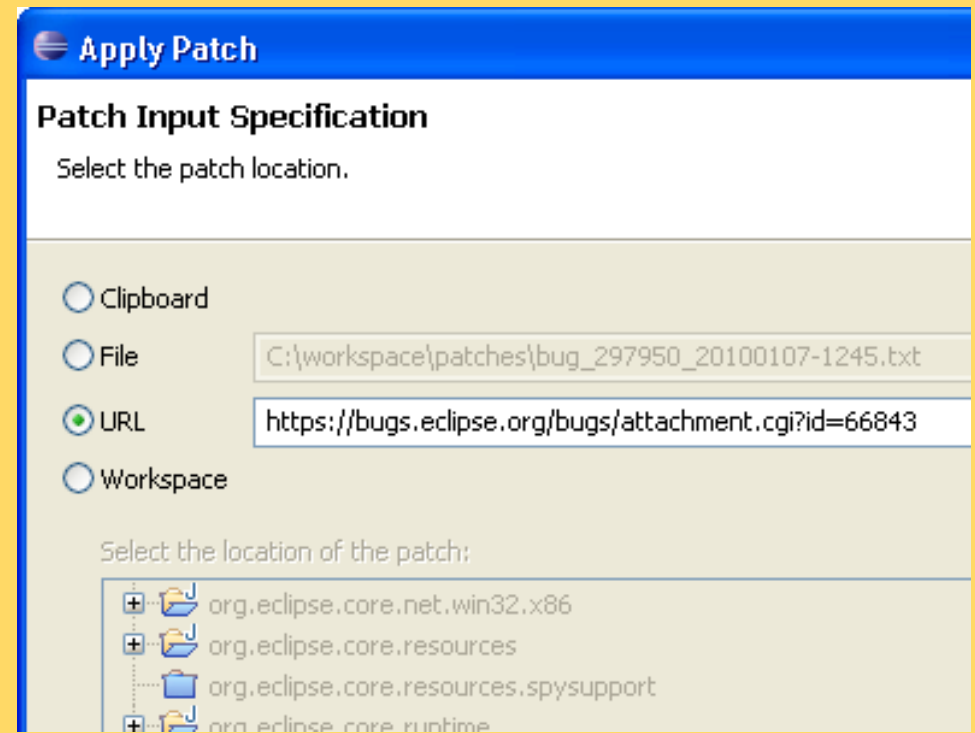
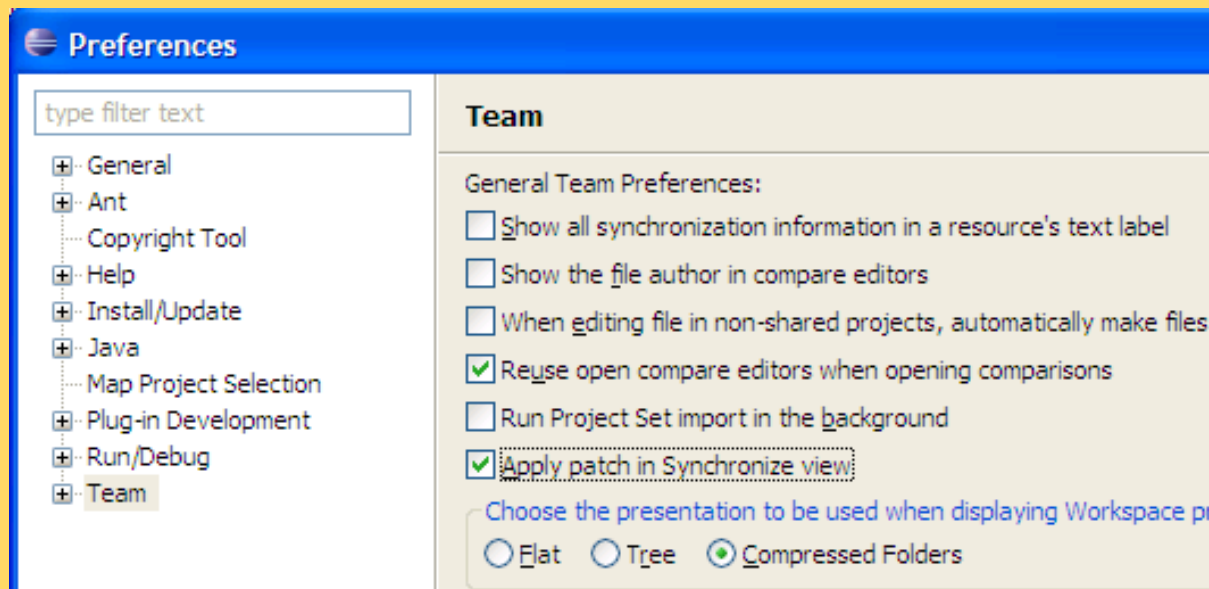


# Debugger Improvements



Name	Value	Actual Type	Instance Count
<input checked="" type="checkbox"/> this	VectorTest (id=24)	VectorTest	7
<input checked="" type="checkbox"/> class\$0	Class<T> (junit.samples...	Class<T>	400
<input checked="" type="checkbox"/> fEmpty	Vector<E> (id=40)	Vector<E>	13
<input checked="" type="checkbox"/> fFull	Vector<E> (id=47)	Vector<E>	13
<input checked="" type="checkbox"/> fName	"testCapacity" (id=50)	String	839
<input checked="" type="checkbox"/> size	3	int	
<input checked="" type="checkbox"/> i	0	int	

# Apply Patch in Synchronize View

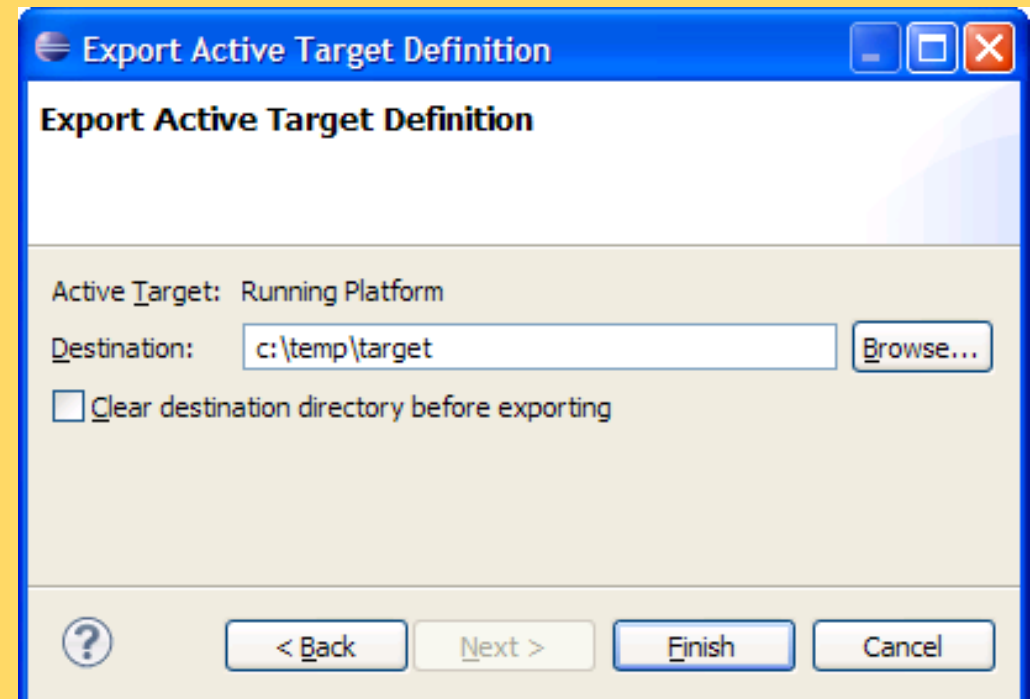
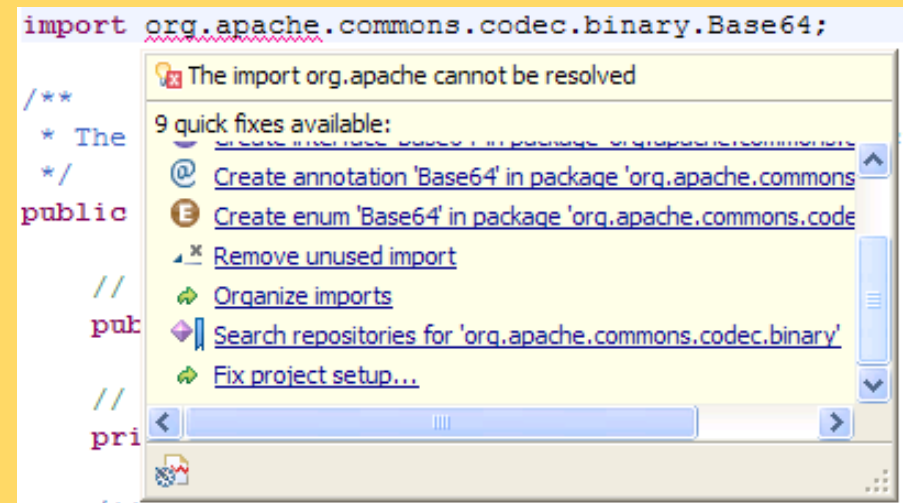
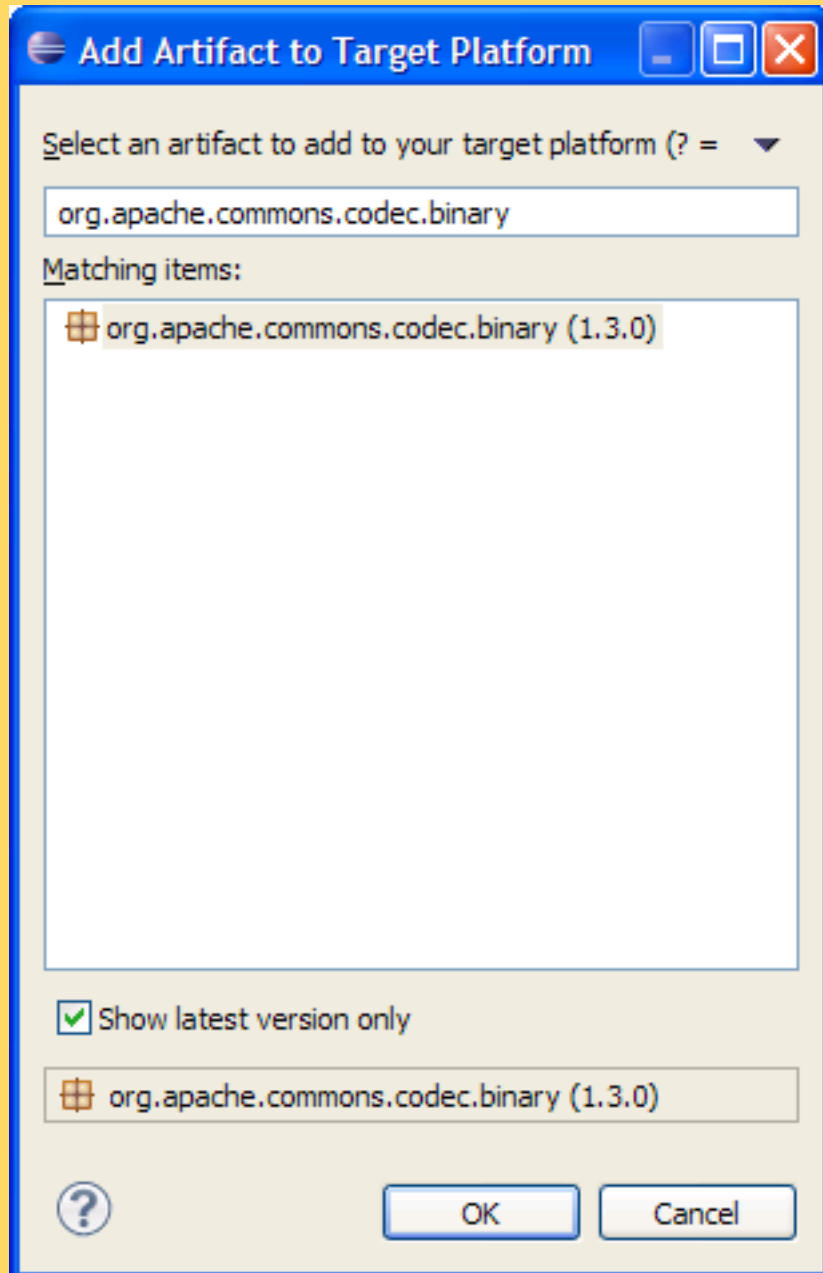




## **6. Target Platform Improvements**

**Eclipse Helios**

# Target Platform Improvements



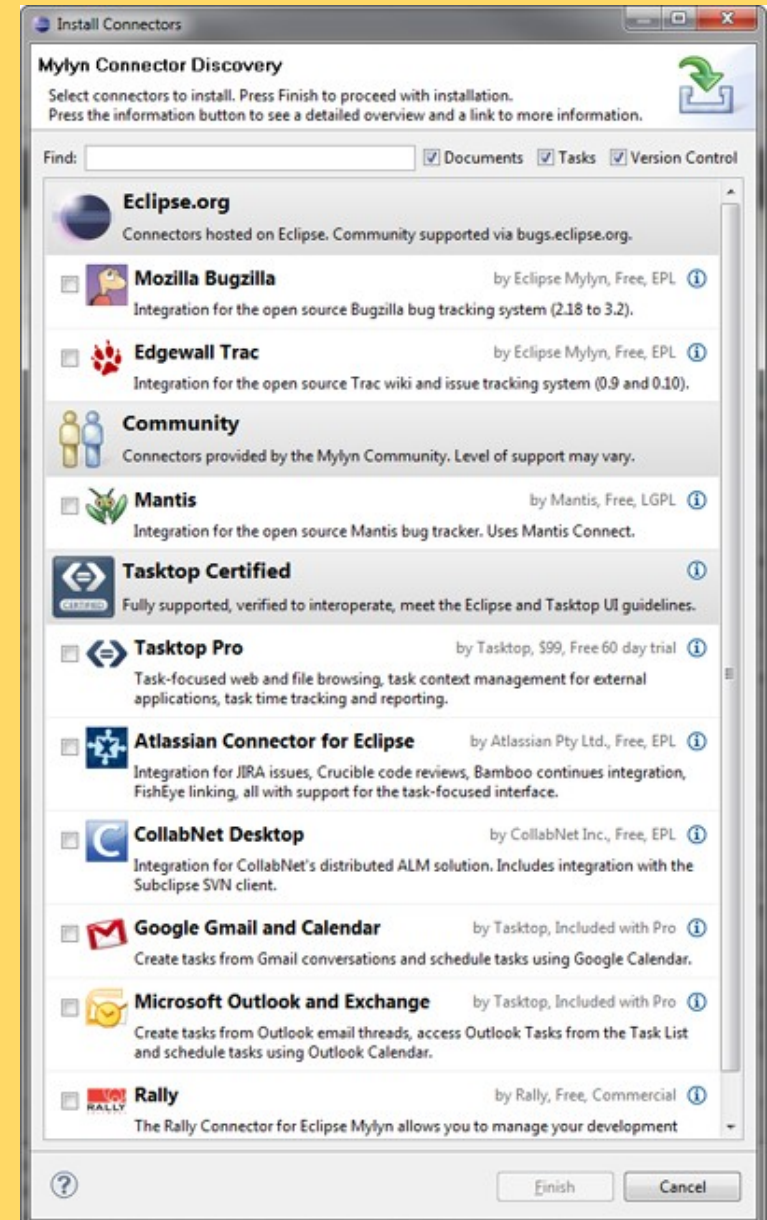


## **5. p2 API and the b3 Aggregator**

**Eclipse Helios**

# p2 API

- Supports multiple agents
- New approach to queries (p2ql)
- Java 5 Syntax
- Operations API
- Real API (no longer provisional)



# b3 Aggregator

The screenshot displays the Eclipse IDE interface for a Maven aggregator project named "buckminster\_helios\_mirrored.b3aggr". The Package Explorer on the left shows the project structure. The main editor area shows the Maven project configuration tree, with the "Aggregator Helios + Buckminster for Subversive" node selected. The Properties view at the bottom shows the following configuration:

Property	Value
Buildmaster	
Build Root	<code>\$(user.home)/buckminster_subversive_mirror</code>
Description	
Label	Helios + Buckminster for Subversive
Maven Mappings	
Maven Result	false

The configuration tree includes several mapped repositories and contributions:

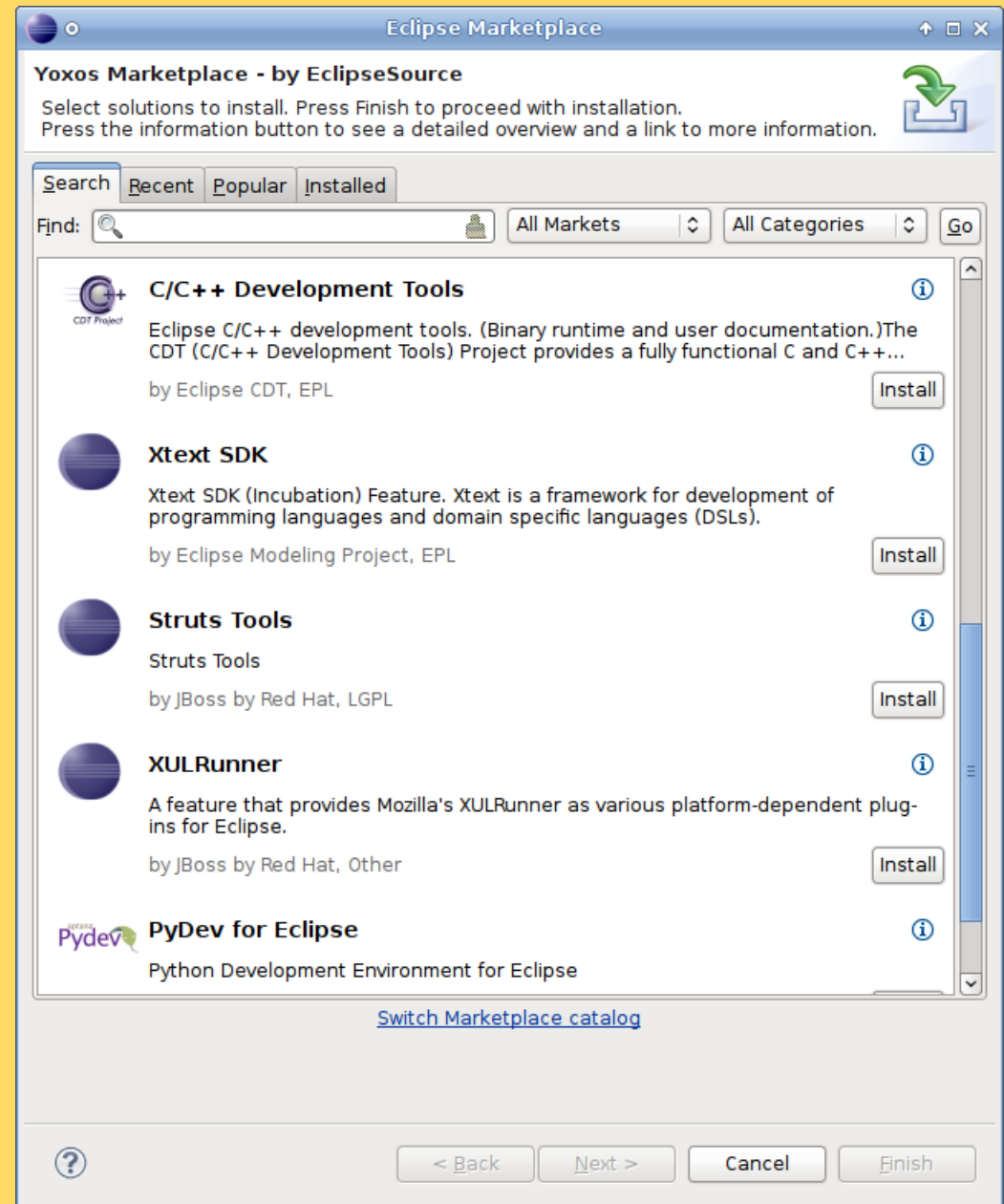
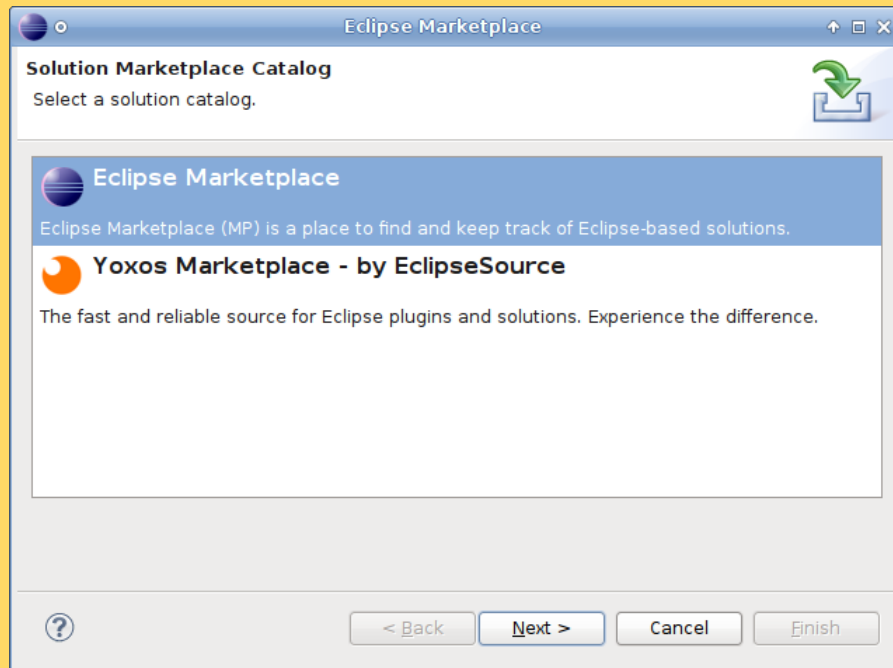
- Configuration win32, win32, x86
- Configuration linux, gtk, x86
- Configuration macosx, cocoa, x86
- Contribution Helios 3.6
  - Mapped Repository p2: `http://download.eclipse.org/releases/helios` (Helios Milestone Repository)
- Contribution Subversive SVN Connectors
  - Mapped Repository p2: `http://community.polarion.com/projects/subversive/download/eclipse/2.0/update-site` (Subversive SVN Connectors Site)
  - Valid Configurations Rule `org.polarion.eclipse.team.svn.connector.javahl.win32 / 2.2.1.I20091009-1900` (JavaHL 1.4.5 Win32 Binaries (Optional))
  - Valid Configurations Rule `org.polarion.eclipse.team.svn.connector.javahl15.win32 / 2.2.1.I20091009-1900` (JavaHL 1.5.4 Win32 Binaries (Optional))
  - Valid Configurations Rule `org.polarion.eclipse.team.svn.connector.javahl16.win32 / 2.2.1.I20091009-1900` (JavaHL 1.6.0 Win32 Binaries (Optional))
- Contribution Buckminster (latest)
  - Mapped Repository p2: `http://download.eclipse.org/tools/buckminster/updates-3.6` (Buckminster)
  - Exclusion Rule `org.eclipse.buckminster.subclipse.feature / 1.0.0.r10759` (Buckminster - Subclipse support)
  - Exclusion Rule `org.eclipse.buckminster.subclipse.source.feature / 1.0.0.r10759` (Source bundles for Buckminster - Subclipse support)
- p2: `http://community.polarion.com/projects/subversive/download/eclipse/2.0/update-site`
- p2: `http://download.eclipse.org/releases/helios`
- p2: `http://download.eclipse.org/tools/buckminster/updates-3.6`
- Metadata Repository Buckminster
  - Installable Units
    - Categories
      - Buckminster
      - Buckminster Source
      - Buckminster SVN Support (Subclipse)
      - Buckminster SVN Support (Subclipse)



## **4. MarketPlace Client**

**Eclipse Helios**

# MarketPlace Client



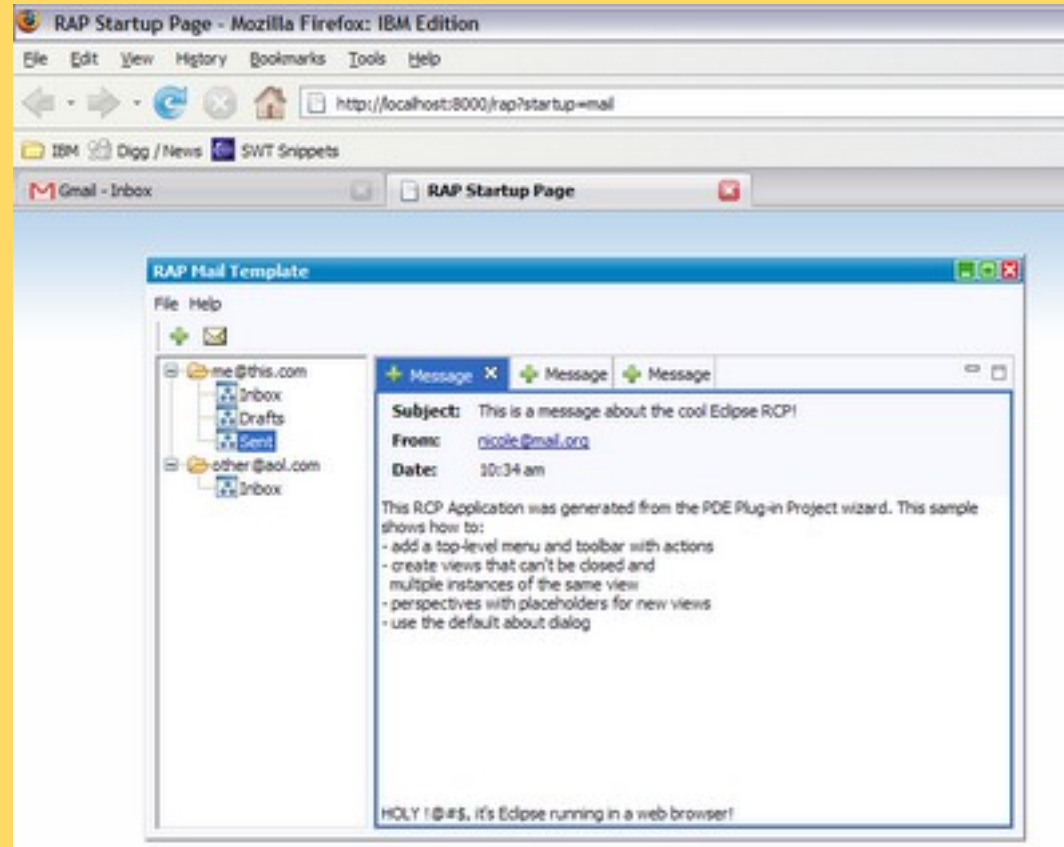


## **3. EMF, Riena, and RAP Integration**


**Eclipse Helios**

# New RAP Features

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# New RAP Features



**CGDS**  
FALD CENTER  
VACCINE  
Austin Fiddle  
Demo

10/14/2009 18:18



System

Shared Files

- ONDO\_GRC.doc
- IC\_Report\_Form.doc

Map Shapes

- Choker Point
- Hospital Loca
- Hospitals
- Place of Refu

Tides

Station Name Id

- Cherry Point 94499824
- Cherry Point 94499811
- Friday Hart 94499800

NCBC

Station ID	Name
46009	COL RV
46008	
46041	CAPE EL

Current Weather

The weather currently available has not been updated.

Event Log

Flat <type filter text>

Time	Location	Description	Action Take

Entity Status

Flat <type filter text> Update Status

Entity Name	Status	Last Report Time	Remarks

Exercise Forms

Exercise Objectives Safety Plan

Mission Process Flow

Legal Process Flow

Planning P

Agencies

Links

Exercise Forms

Mission Process Flow

Legal Process Flow

Planning P

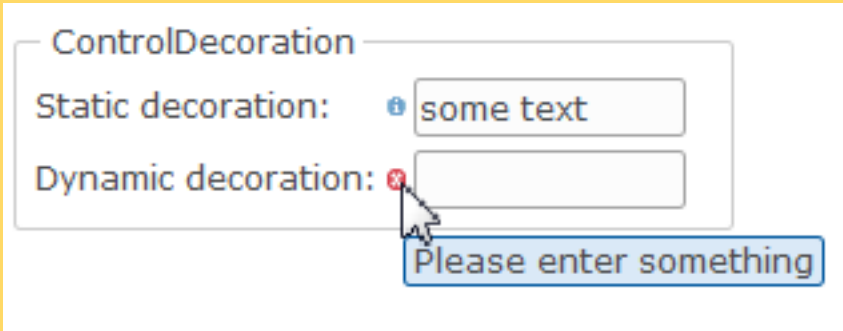
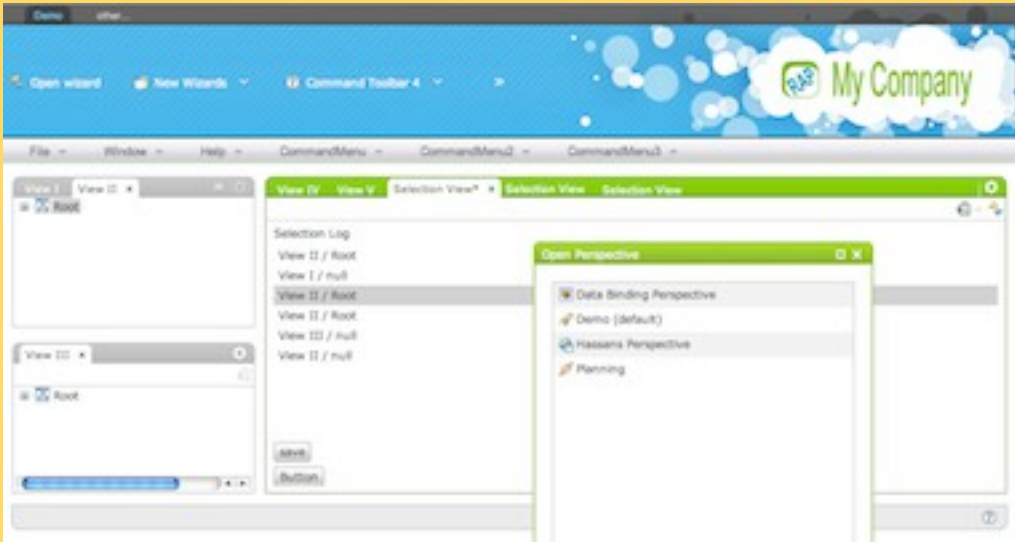
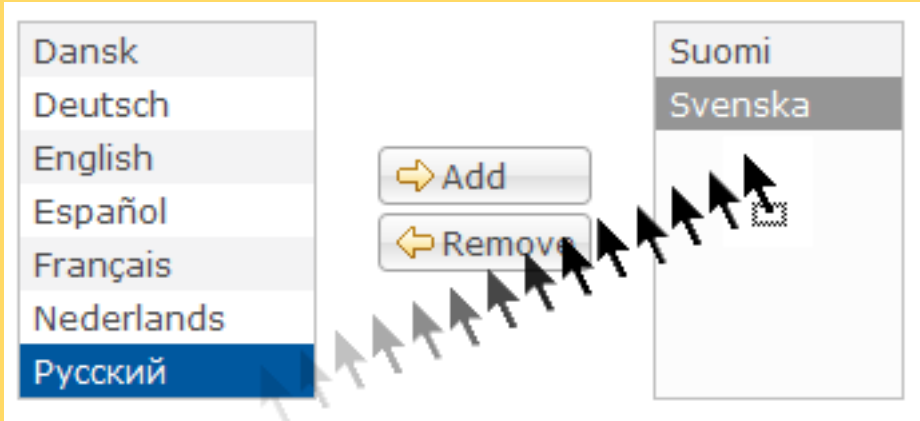
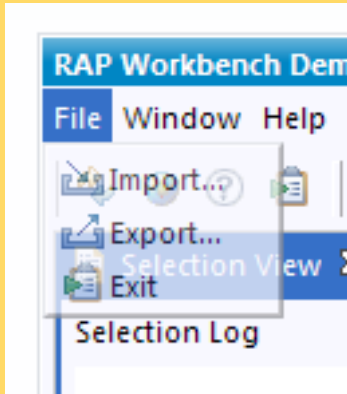
NAIS

Vessel Name	Speed (knots)	Position
3100037	0.0	Coordinate: (-)
3100094	0.0	Coordinate: (-)
3100095	0.0	Coordinate: (-)

HAZNET

Name	Category
BLUFORD1	Responder Locations BLU
BLUFORD2	Responder Locations BLU
BLUFORD3	Responder Locations BLU
BLUFORD4	Responder Locations BLU

# New RAP Features



# New RAP Features

RAP Examples - Canv... x

← → ↻ 🏠 ☆ <http://rap.eclipsesource.com/rapdemo/examples#Canvas>

? About

- Basic Widgets ^
- Buttons
- Label Widgets
- Input Widgets
- Graphics & Design ^
- Canvas**
- Theming
- Layouts ^
- GridLayout
- RowLayout
- FillLayout
- Lists and Trees ^
- List
- Table
- Tree

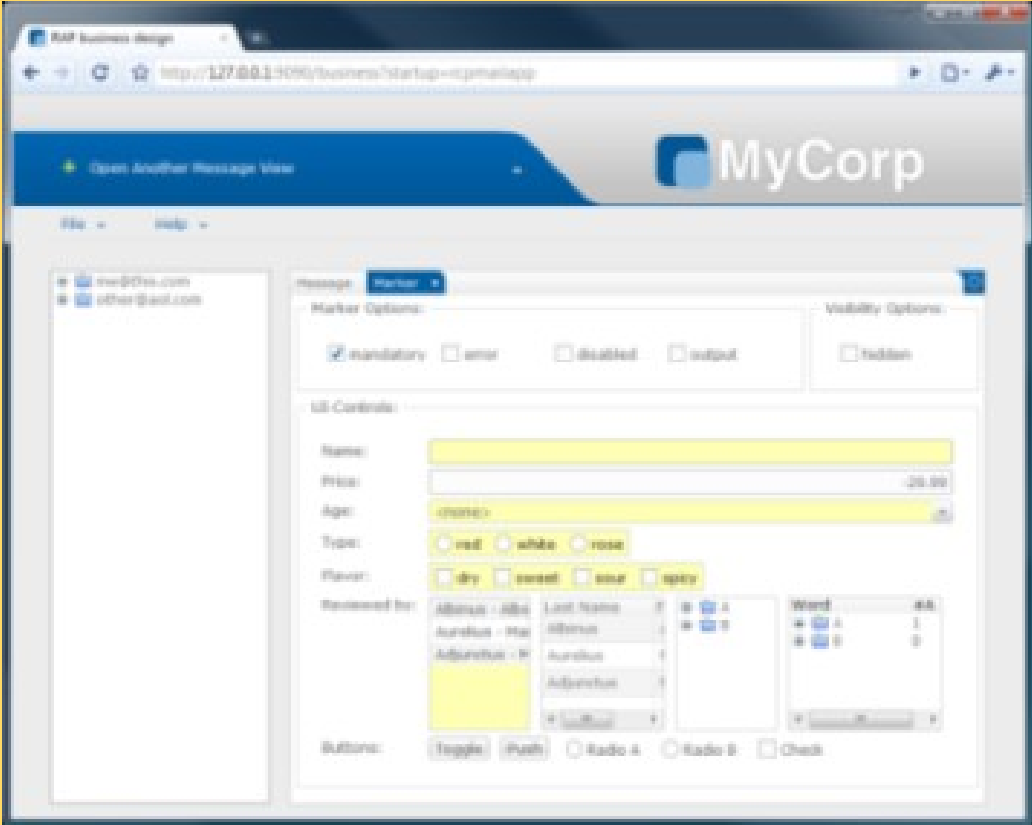
Drawing Area

WELIOS

Polyform  Oval  Stamp  Transparency

# RAP and Riena Integration

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# RAP and EMF Integration

The screenshot displays the Eclipse IDE interface. The top part shows the Package Explorer with a project named 'Library' containing sub-packages 'Book', 'Library', 'Writer', and 'BookCategory'. The bottom part shows the Properties view for the selected 'Library' package, which is currently displaying the 'Editor Plug-in' properties. The 'Rich Ajax Platform' property is highlighted with a red box and is set to 'true'.

Property	Value
Editor Plug-in Class	org.eclipse.example.library.presentation.Libra
Editor Plug-in ID	library.editor
Editor Plug-in Variables	
Rich Ajax Platform	true
Rich Client Platform	true



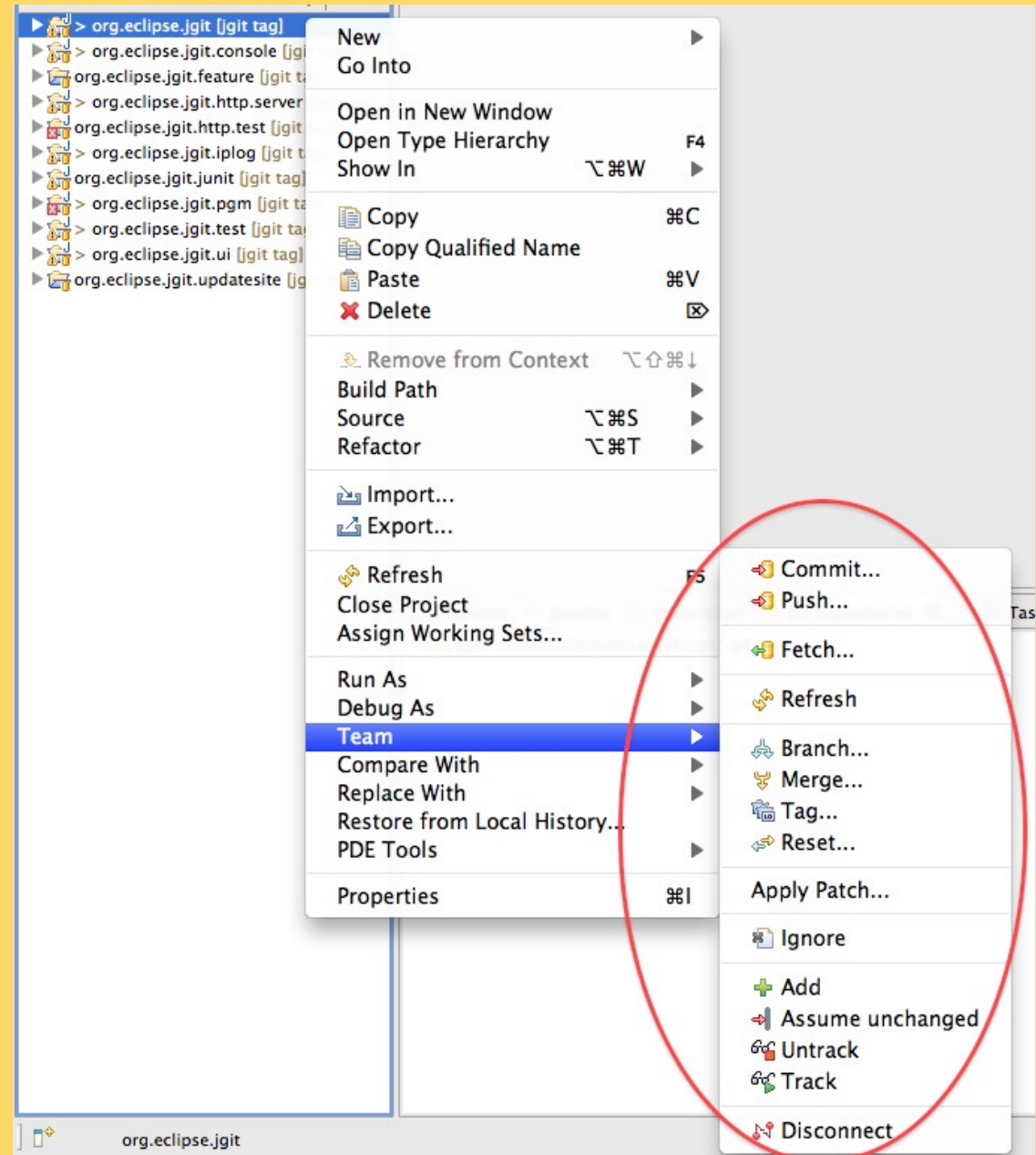
## **2. Git Support at Eclipse**

**Eclipse Helios**

# Git Support at Eclipse

## 3 Components:

- JGit
- EGit
- Git Infrastructure



# Git Support at Eclipse

The screenshot shows the Eclipse IDE's Git support interface. On the left, a commit history tree is visible with commit 3155 selected. A context menu is open over this commit, listing actions such as Copy, Select All, Wrap Comments, Fill Paragraphs, Show Revision Comment, Show Revision Details, Reset, Quick Diff, and Create Patch... The main area displays a list of commits with columns for Author and Date.

Author	Date
<sasa.zivkov@sap.com>	2010-03-11 15:19:34
ce <spearce@spearce.org>	2010-03-10 06:22:54
hn <matthias.sohn@sap.com>	2010-02-12 01:49:34
nberg <robin.rosenberg@dewire.com>	2010-02-17 23:12:17
ce <spearce@spearce.org>	2010-02-12 02:39:09
bien <nsallembien@google.com>	2010-02-10 00:01:27
earce <spearce@spearce.org>	2010-02-11 20:39:09
earce <spearce@spearce.org>	2010-02-11 00:00:12
bien <nsallembien@google.com>	2010-02-09 18:53:53

```
commit
2ae9a85045915a38af2c3
Author: Sasa Zivkov <sasa.zivkov@sap.com>
Date: 2010-03-11 15:19:34
Committer: Sasa Zivkov <sasa.zivkov@sap.com>
Date: 2010-03-11 15:19:34
```

The screenshot shows the 'Git Repositories' view in Eclipse. It displays a tree structure of Git repositories and their branches. The 'egit' repository is expanded, showing local and remote branches, tags, and symbolic references. The 'jgit' repository is also visible.

- egit - /Users/chrisaniszczyk/egit/.git
  - Branches
    - Local Branches
    - Remote Branches
      - origin/master
      - origin/stable-0.7
  - Tags
    - spearce-gpg-pub
    - v0.7.0
    - v0.7.1
  - Symbolic References
  - Working directory - /Users/chrisaniszczyk/egit
- Remotes
  - origin
  - review
- jgit - /Users/chrisaniszczyk/jgit/.git



**1. Xtext, Version 1.0**

**Eclipse Helios**

# Xtext

---

Xtext is programming language framework and bridges the gap between:

1. Models
2. Grammars
3. Programming Language Tool Support

Used to create

1. Rich editors for configuration files
  - Tool support for DSLs
  - A general purpose programming language

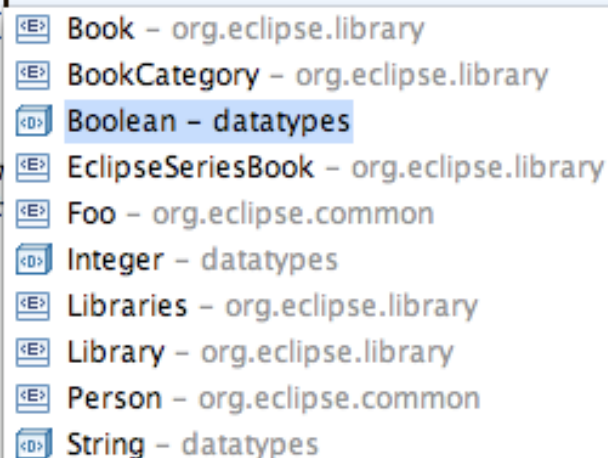
# Xtext

```
package org.eclipse.common {  
  
  entity Foo {  
    attr attrName : Foo  
    op name (paramName1 Foo) : Foo  
  }  
  
  entity Person {  
    attr name : String  
    attr age : Integer  
  }  
}
```

```
entity Book {  
  attr numberOfPages : Integer  
  attr isbn : String  
  attr title : String  
  attr author : Writer  
  attr category : BookCategory  
}
```

- Create datatype 'Integer'
- Change to 'Integer'

```
attrName : |  
op name ( |  
  
Person {  
name : da  
age : Int
```



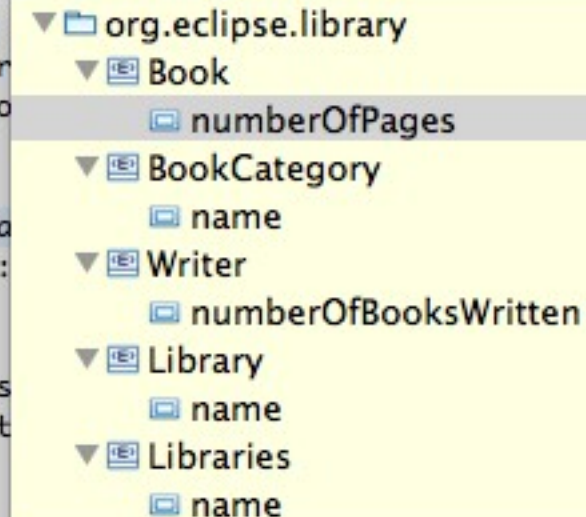
A screenshot of a dropdown menu in an IDE. The menu is open and shows a list of items with a search icon on the left. The items are: Book - org.eclipse.library, BookCategory - org.eclipse.library, Boolean - datatypes, EclipseSeriesBook - org.eclipse.library, Foo - org.eclipse.common, Integer - datatypes, Libraries - org.eclipse.library, Library - org.eclipse.library, Person - org.eclipse.common, and String - datatypes. The 'Integer - datatypes' item is currently selected and highlighted in blue.

```
entity Book {  
  attr number  
  attr isbn :  
  attr title  
  attr author  
  attr catego
```

```
entity BookCa  
  attr name :
```

```
entity Eclips  
  attr subtit
```

```
entity Writen  
  attr numberOfBooksWritten : Integer  
  attr foo : String  
}
```



A screenshot of a quick outline window in an IDE. The window shows a tree view of the project structure. The root is 'org.eclipse.library', which contains several sub-entities: 'Book', 'BookCategory', 'Writer', and 'Library'. The 'Book' entity is expanded, showing its attributes: 'numberOfPages', 'BookCategory', 'Writer', and 'Library'. The 'BookCategory' entity is also expanded, showing its attribute 'name'. The 'Writer' entity is expanded, showing its attribute 'numberOfBooksWritten'. The 'Library' entity is expanded, showing its attribute 'name'. The 'Libraries' entity is also expanded, showing its attribute 'name'. The 'numberOfPages' attribute of the 'Book' entity is currently selected and highlighted in grey.

Press 'Esc' to exit the quick outline



**Thank-you**

**Eclipse Helios**