Software Installation Guide

CertWare Project

NASA Contract NNL10AA08C

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Introduction

This guide describes how to install the CertWare feature into an Eclipse workbench.[1] This guide first describes how to install Eclipse, if necessary, and then describes how to install the CertWare feature into the Eclipse installation.   After installing the software the user should be able to start using the CertWare feature in the Eclipse workbench. The last section provides some quick start hints.

Install Eclipse

If the user does not already have a recent Eclipse application installation, go to the Eclipse site and download and install an Eclipse product for the desired platform. The download site is

http://www.eclipse.org/downloads/

While a minimal Eclipse Classic or Eclipse IDE for Java Developers platform could be used to start with, owing to the many Eclipse Modeling components that CertWare uses it would be faster to download the larger but more comprehensive **Eclipse Modeling Tools** platform. The Eclipse Helios distribution (3.6 or later) is needed for the CertWare feature. A recent list is shown in the figure below. If you already have an Eclipse and merely want to install CertWare into it, then move on to the next next.

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1. A different sort of installation that installs a self-contained workbench with CertWare features already installed is possible with a CertWare Product. This guide does not yet describe the product installation method.

Eclipse Downloads

Compare Packages   Older Versions   Eclipse Helios (3.6.1) Packages for [Mac OS X (Cocoa) ⇕]

Eclipse IDE for Java Developers, 98 MB
Downloaded 1,031,150 Times   Details
Mac OS X 32 Bit
Mac OS X 64 Bit

Eclipse IDE for Java EE Developers, 204 MB
Downloaded 684,394 Times   Details
Mac OS X 32 Bit
Mac OS X 64 Bit

Eclipse Classic 3.6.1, 169 MB
Downloaded 520,504 Times   Details   Other Downloads
Mac OS X 32 Bit
Mac OS X 64 Bit

Eclipse IDE for C/C++ Developers, 87 MB
Downloaded 290,840 Times   Details
Mac OS X 32 Bit
Mac OS X 64 Bit

Eclipse for PHP Developers, 140 MB
Downloaded 158,799 Times   Details
Mac OS X 32 Bit
Mac OS X 64 Bit

Eclipse IDE for JavaScript Web Developers, 107 MB
Downloaded 58,294 Times   Details
Mac OS X 32 Bit
Mac OS X 64 Bit

Eclipse Modeling Tools (includes Incubating components), 247 MB
Downloaded 45,663 Times   Details
Mac OS X 32 Bit
Mac OS X 64 Bit

Eclipse IDE for Java and Report Developers, 239 MB
Downloaded 37,954 Times   Details
Mac OS X 32 Bit
Mac OS X 64 Bit

Pulsar for Mobile Developers, 121 MB
Downloaded 36,605 Times   Details
Mac OS X 32 Bit
Mac OS X 64 Bit

Eclipse for RCP and RAP Developers, 187 MB
Downloaded 35,914 Times   Details
Mac OS X 32 Bit
Mac OS X 64 Bit

Eclipse SOA Platform for Java and SOA Developers (includes Incubating components), 187 MB
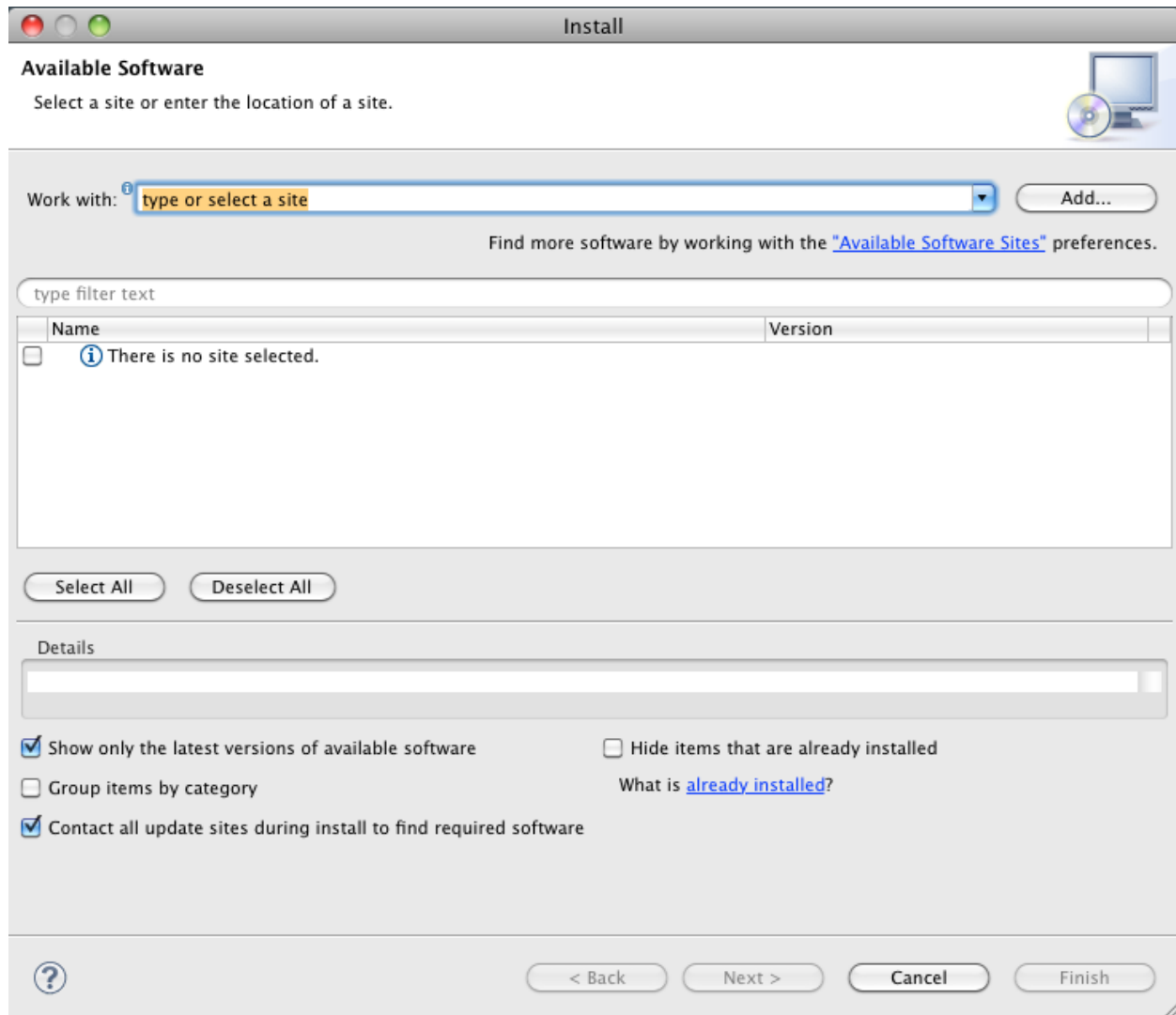Downloaded 19,271 Times   Details
Mac OS X 32 Bit
Mac OS X 64 Bit

After installing the Eclipse IDE, the user can then install the CertWare feature into the IDE. Use one of the two following sections according to how the CertWare feature was delivered.
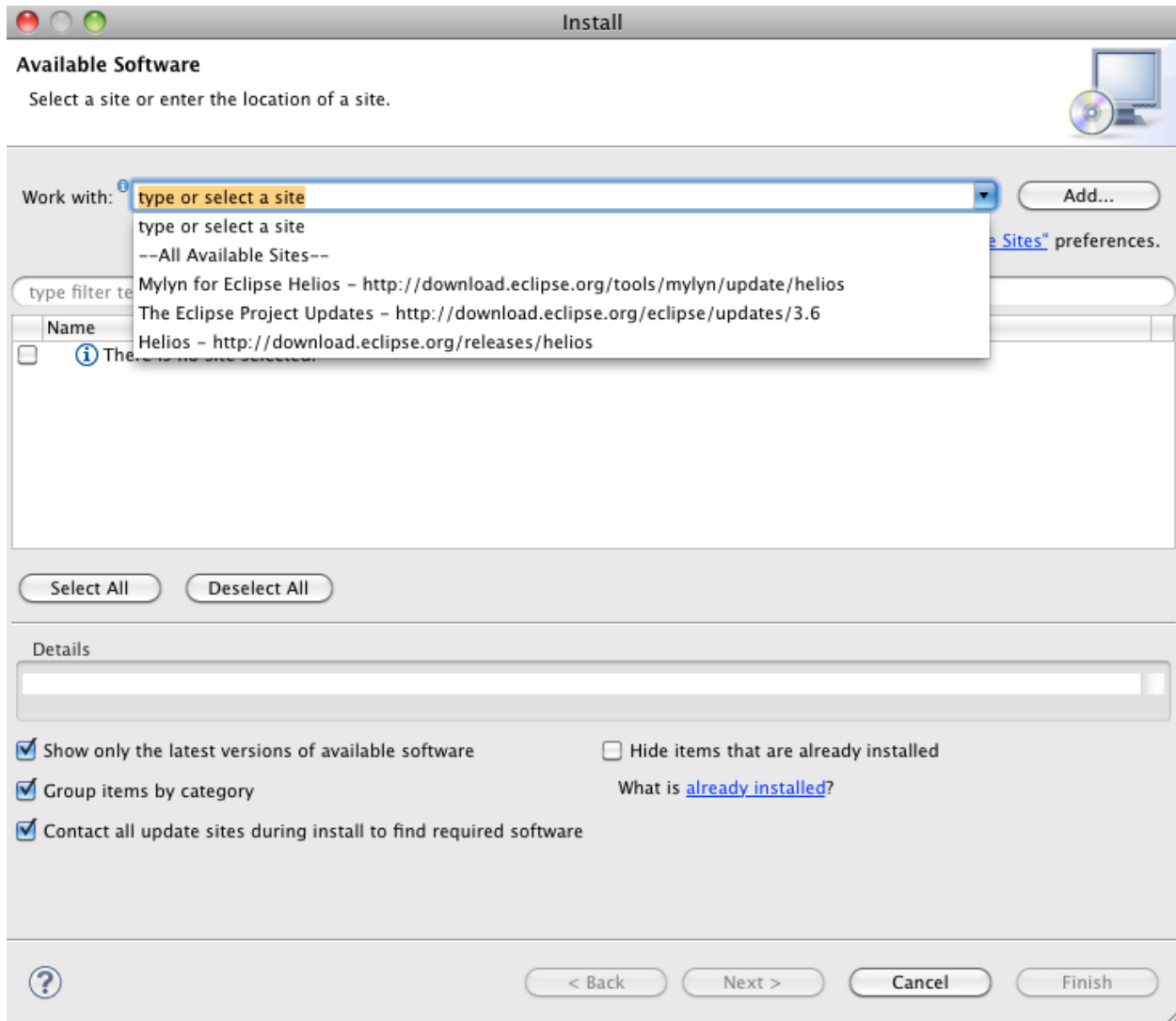
Installing CertWare From Update Site

This user should follow this installation procedure to acquire and install the CertWare feature from the project's online update site.
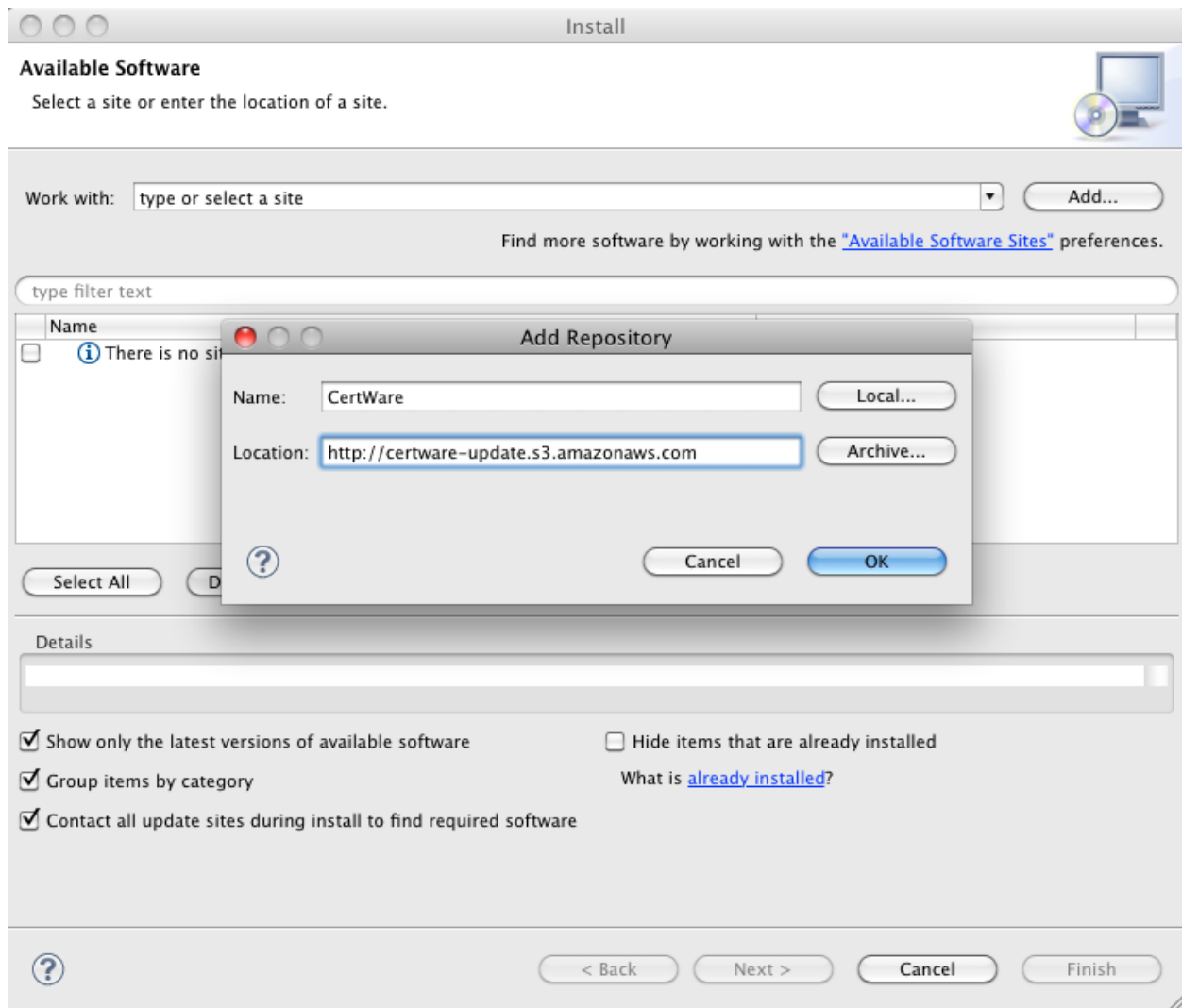
Launch Eclipse, select a workspace if prompted, and then run the **Help -> Install New Software...** command. This raises the **Install** dialog as shown below.
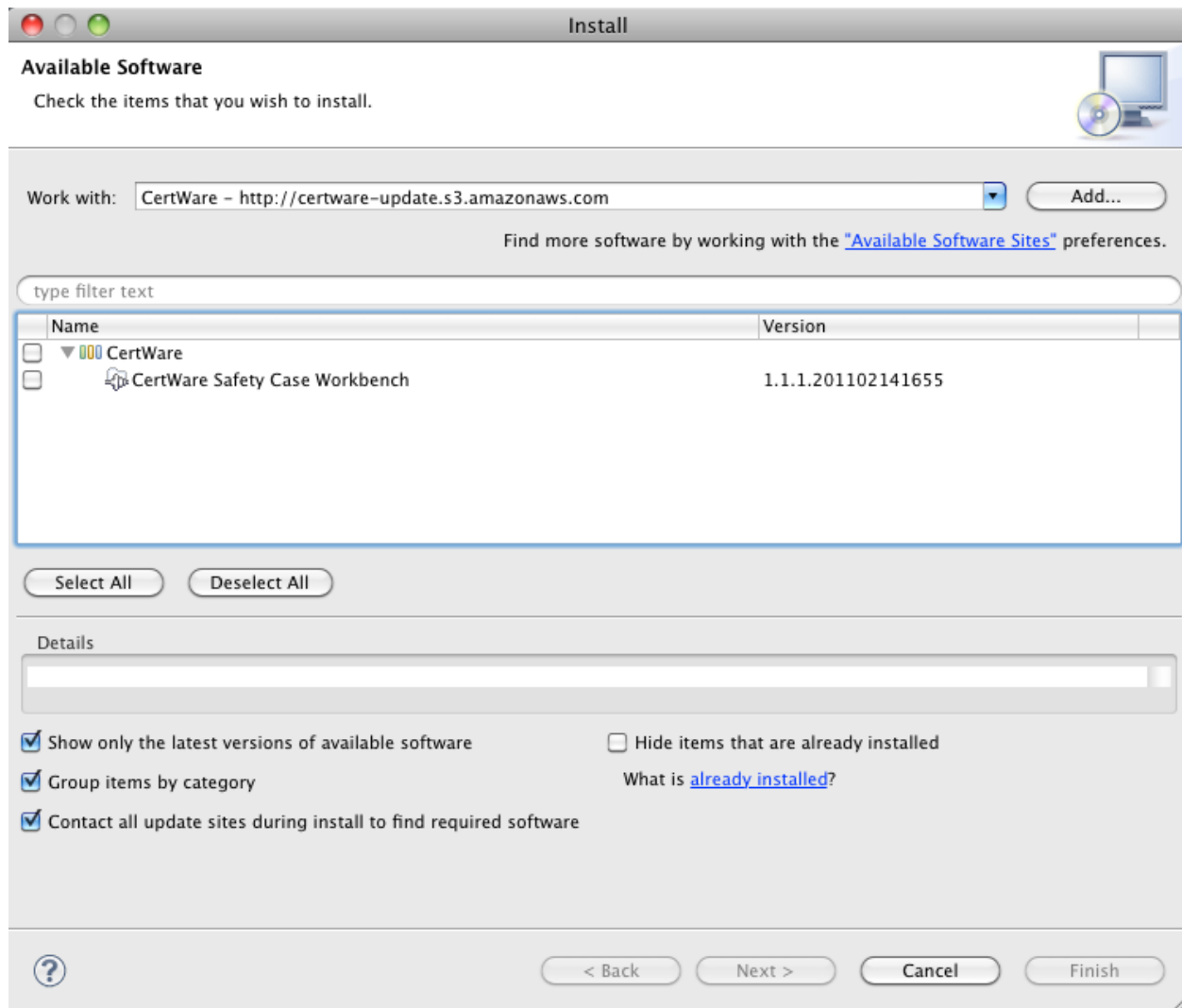

The default Eclipse installation will already have some update sites installed; these are important because Eclipse will look in these locations to find dependencies while installing CertWare. For example, the Helios delivery will be checked in the default installation. You can see this in the "Work with" drop-down list.
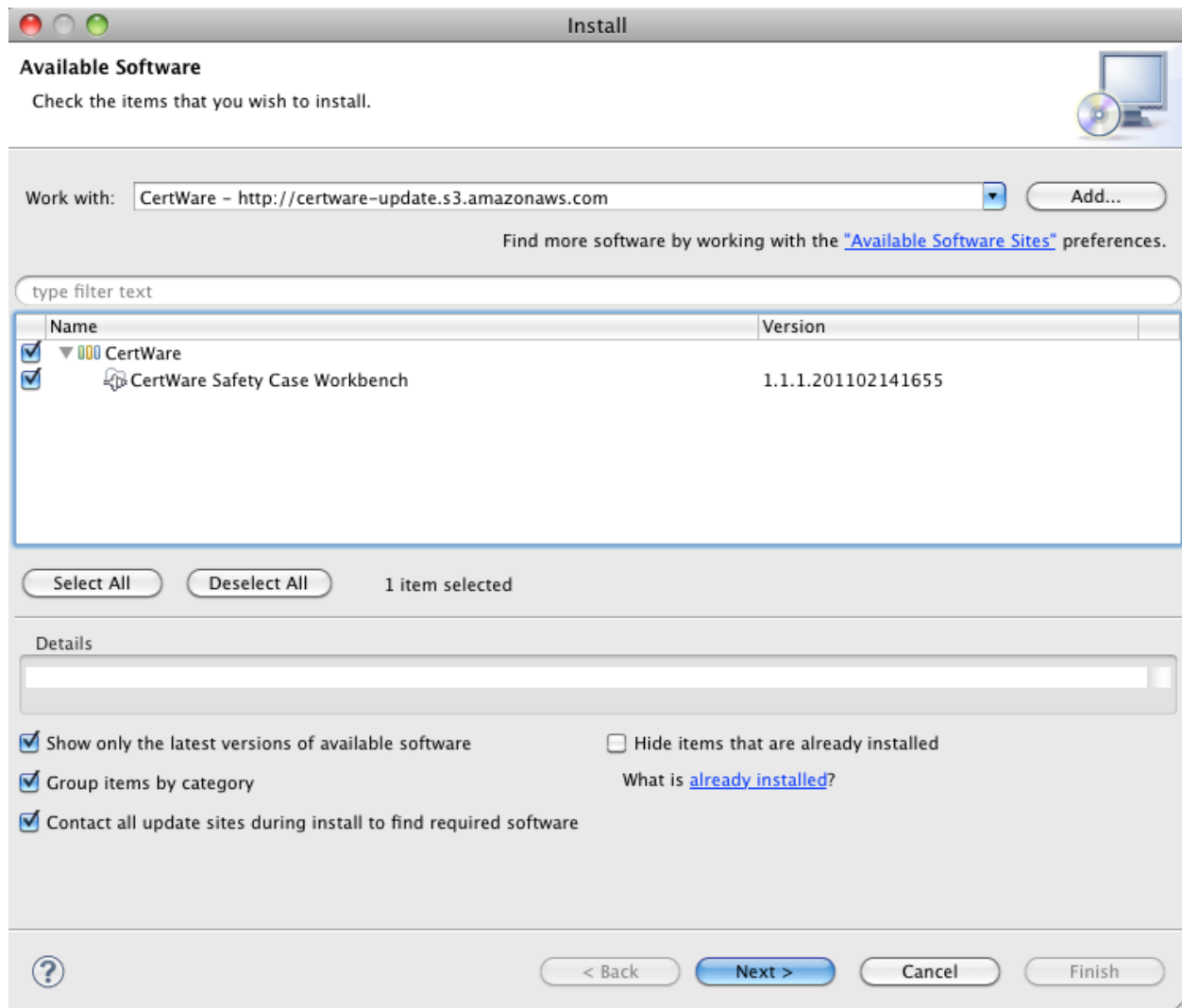
Click the **Add...** button to create a software site pointing to the update site URL. Enter the name **CertWare** and location **http://certware-update.s3.amazonaws.com** as shown below.
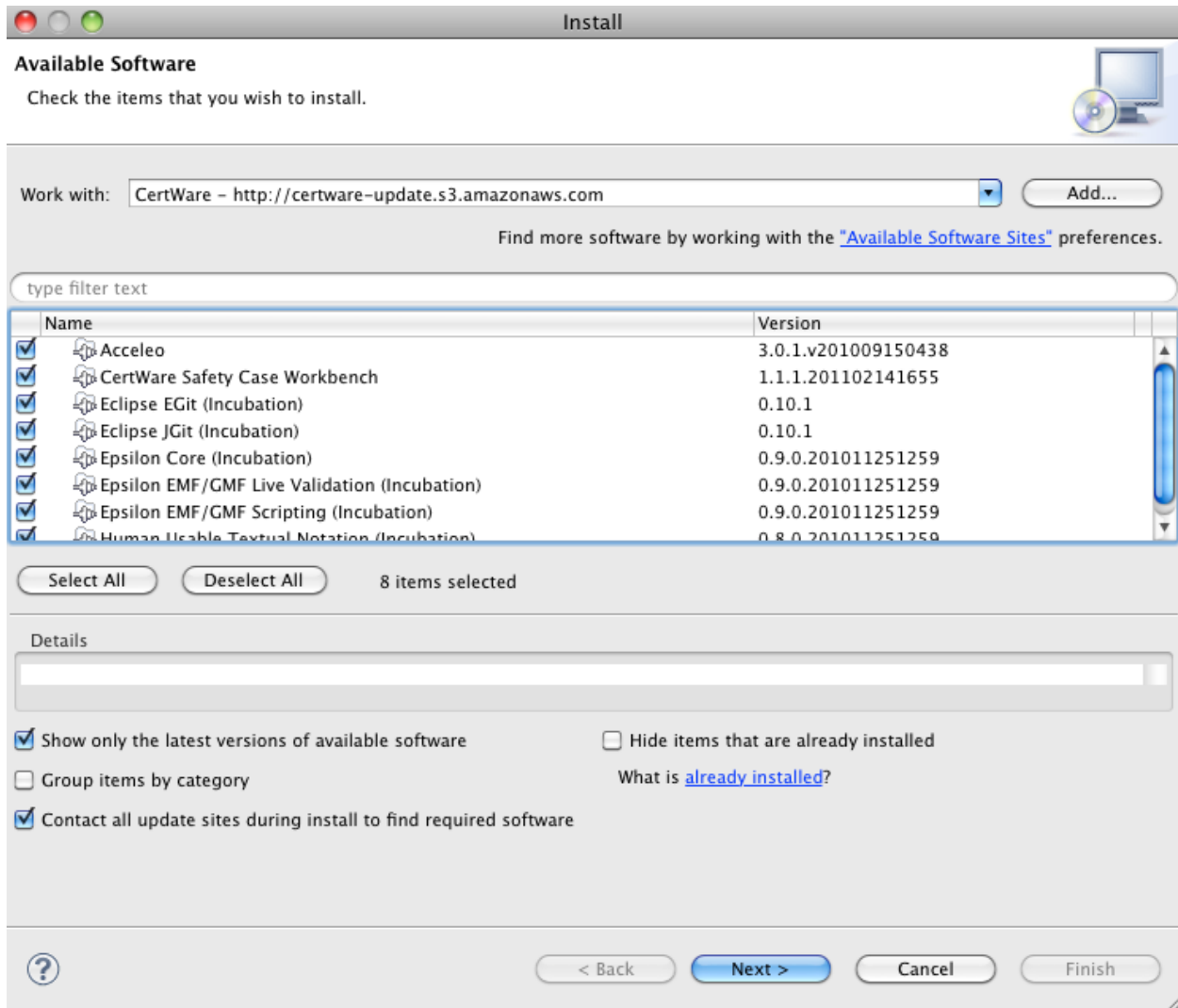
Click **OK** to save the new software site, then continue with the installation. From the **Work with:** list in the Install dialog choose the new CertWare site to see its contents in the selection list. (If nothing appears in the list, deselect the **Group items by category** check box.) If it has not yet been installed, the Eclipse Acceleo, EGit, JGit, and Epsilon features necessary for CertWare are also included in the list as shown below. Select all of the features for installation and then click **Next** to continue.
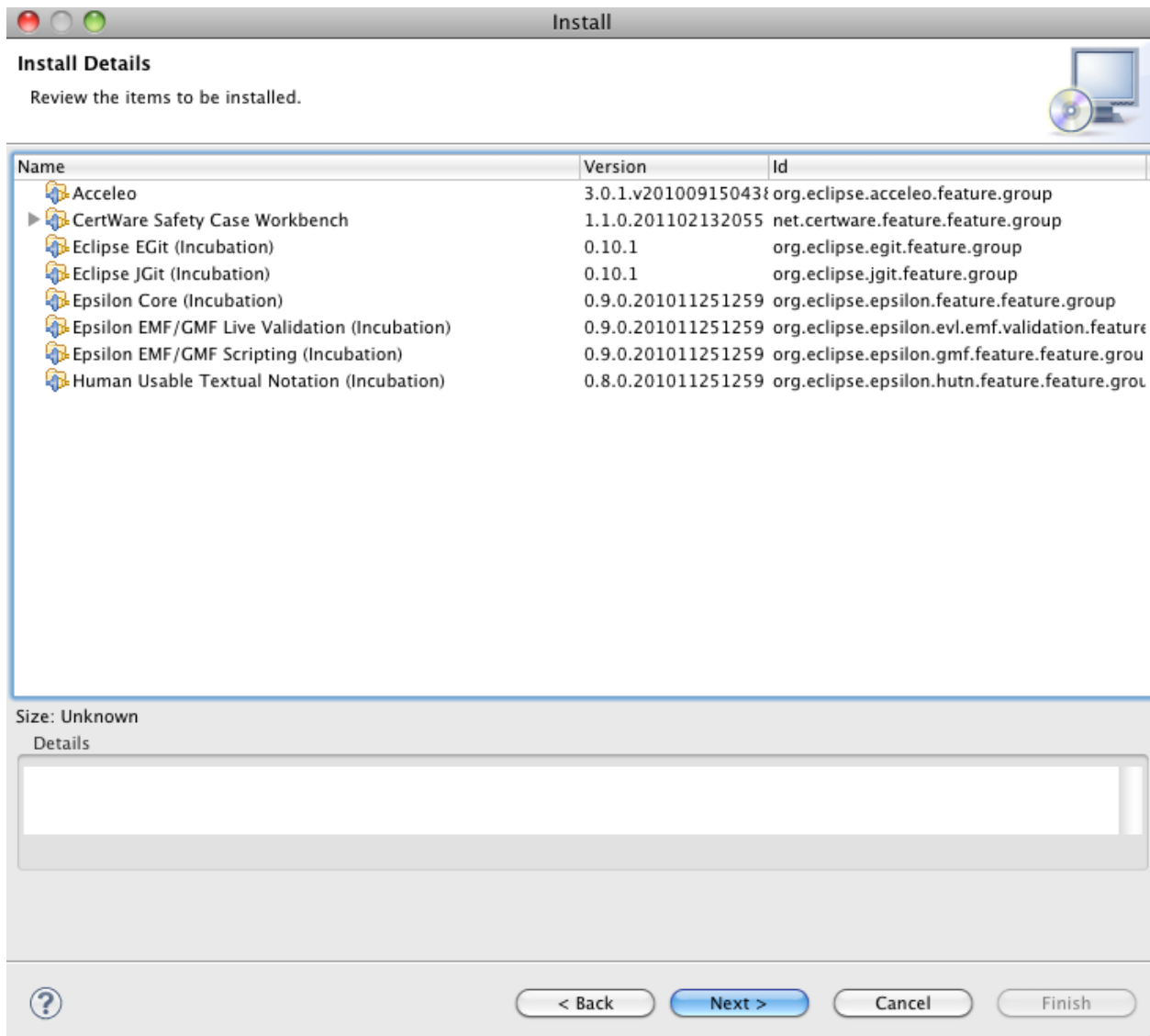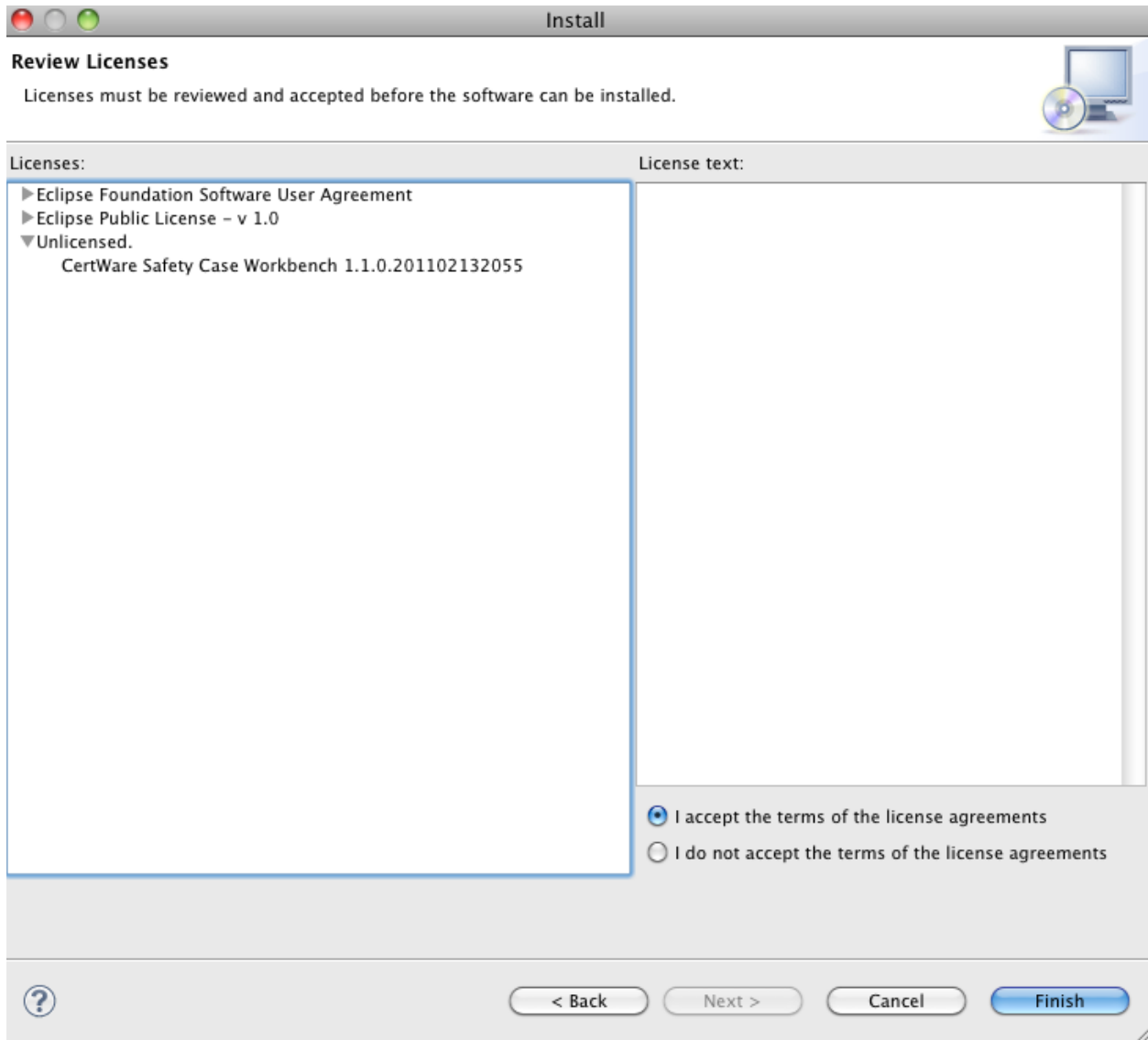
Select the group feature for installation:

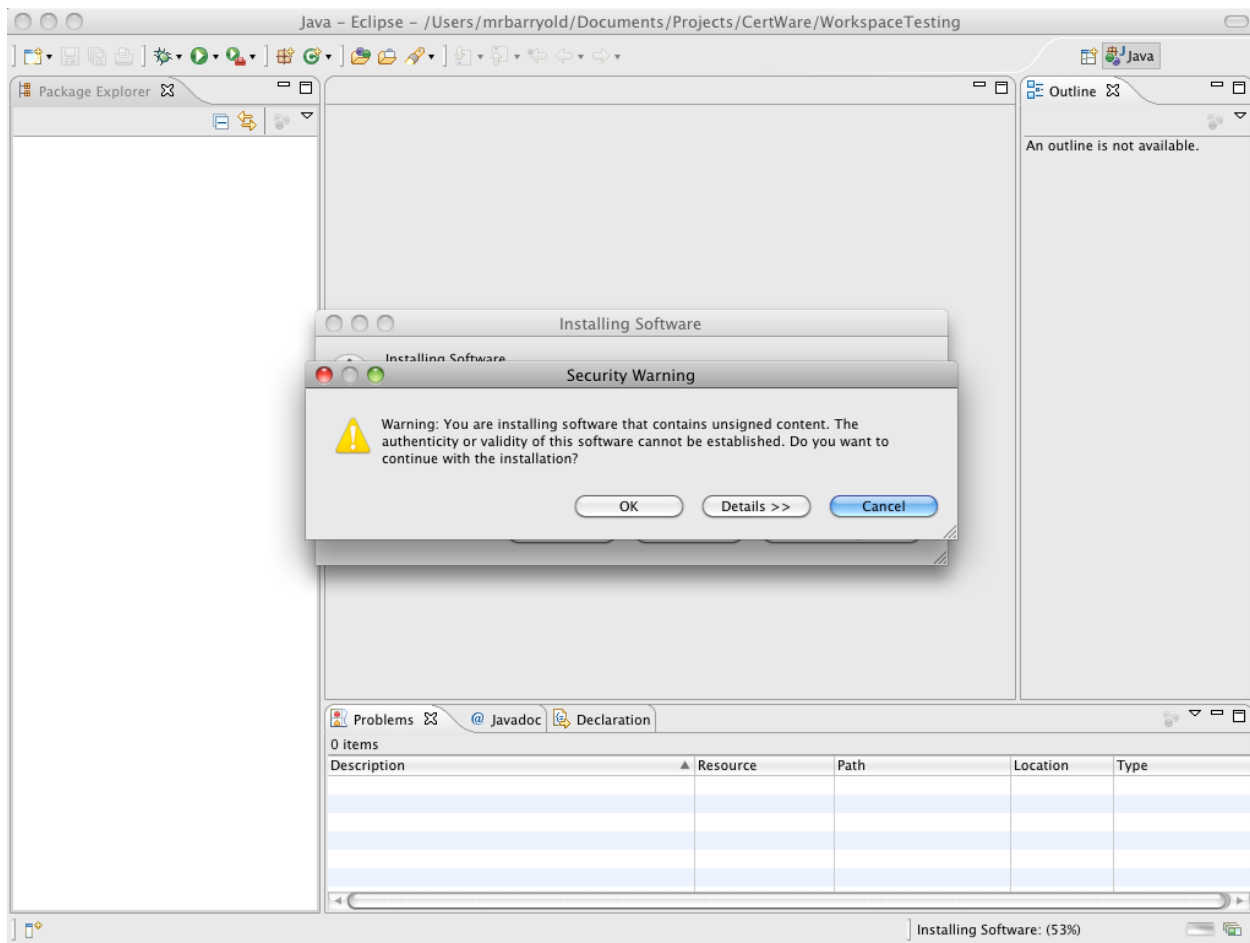or, if the "Group items" check box is deselected, individually as

Click the **Next** button. The list of items to be installed will be shown for confirmation. This list will include prerequisites that are required, if any, and which will be installed along with CertWare. In the example below some of the modeling framework plug-ins will also be installed. These will be installed from other locations in the available software sites. Click **Next** again.
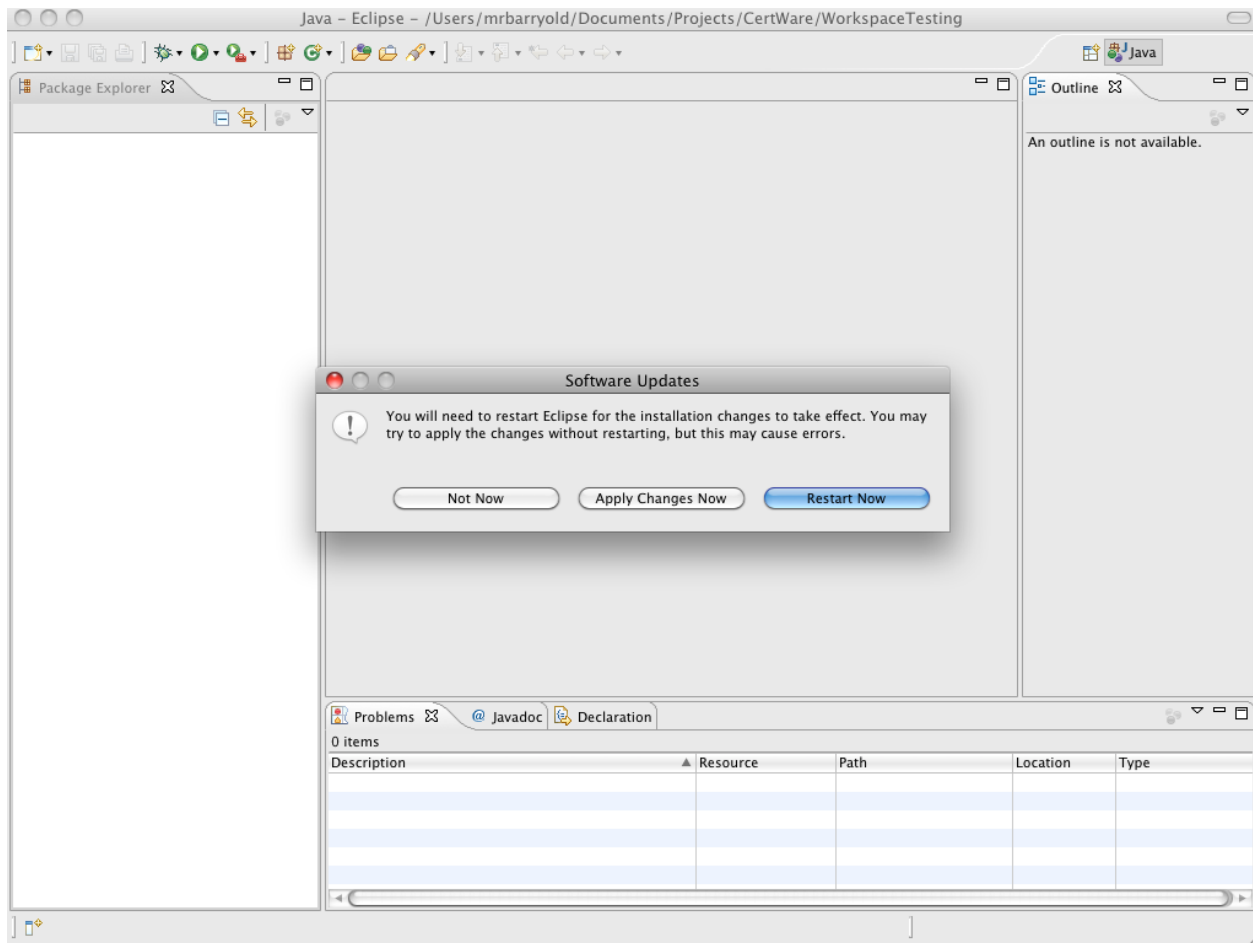
Review the license terms for the software pending installation. CertWare currently is unlicensed so there is no text associated with its license. Select the **I accept the terms** radio button if agreed, then click **Finish** to proceed to the last step.

Install

Review Licenses

Licenses must be reviewed and accepted before the software can be installed.

Licenses:

▶Eclipse Foundation Software User Agreement
▶Eclipse Public License – v 1.0
▼Unlicensed.
    CertWare Safety Case Workbench 1.1.0.201102132055

License text:

◉ I accept the terms of the license agreements
○ I do not accept the terms of the license agreements

< Back   Next >   Cancel   Finish

During installation the installer may warn that "unsigned content" is being installed. This occurs because the CertWare software (and possibly other prerequisite software) has not yet been signed with a digital certificate for authentication. Review the details. Click **OK** to continue if the content is just CertWare, or make your own decisions for other content.
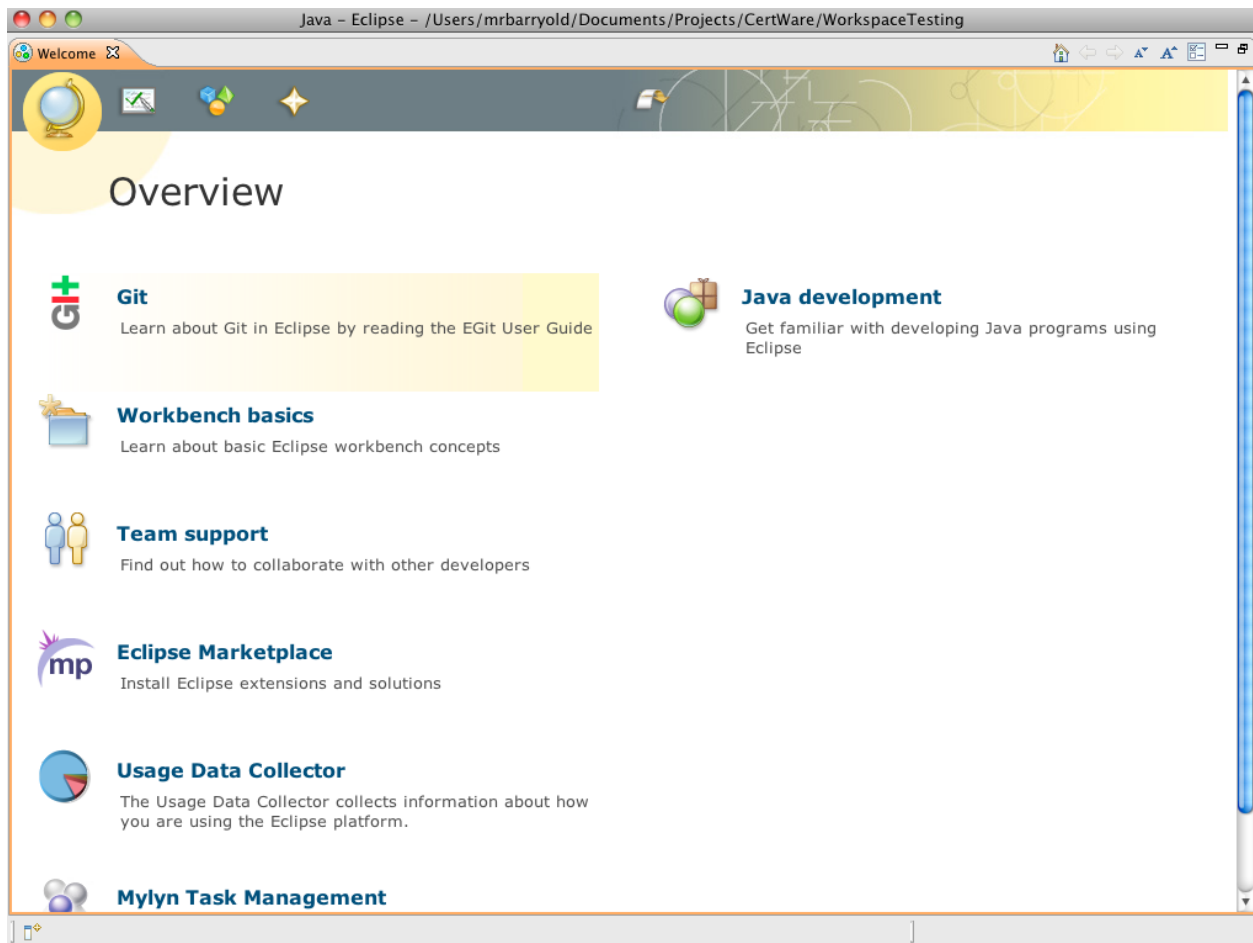
Upon completion, the installer will prompt to restart the workbench. This is necessary to register the commands, views, menu items, and so on. Click **Restart Now**.

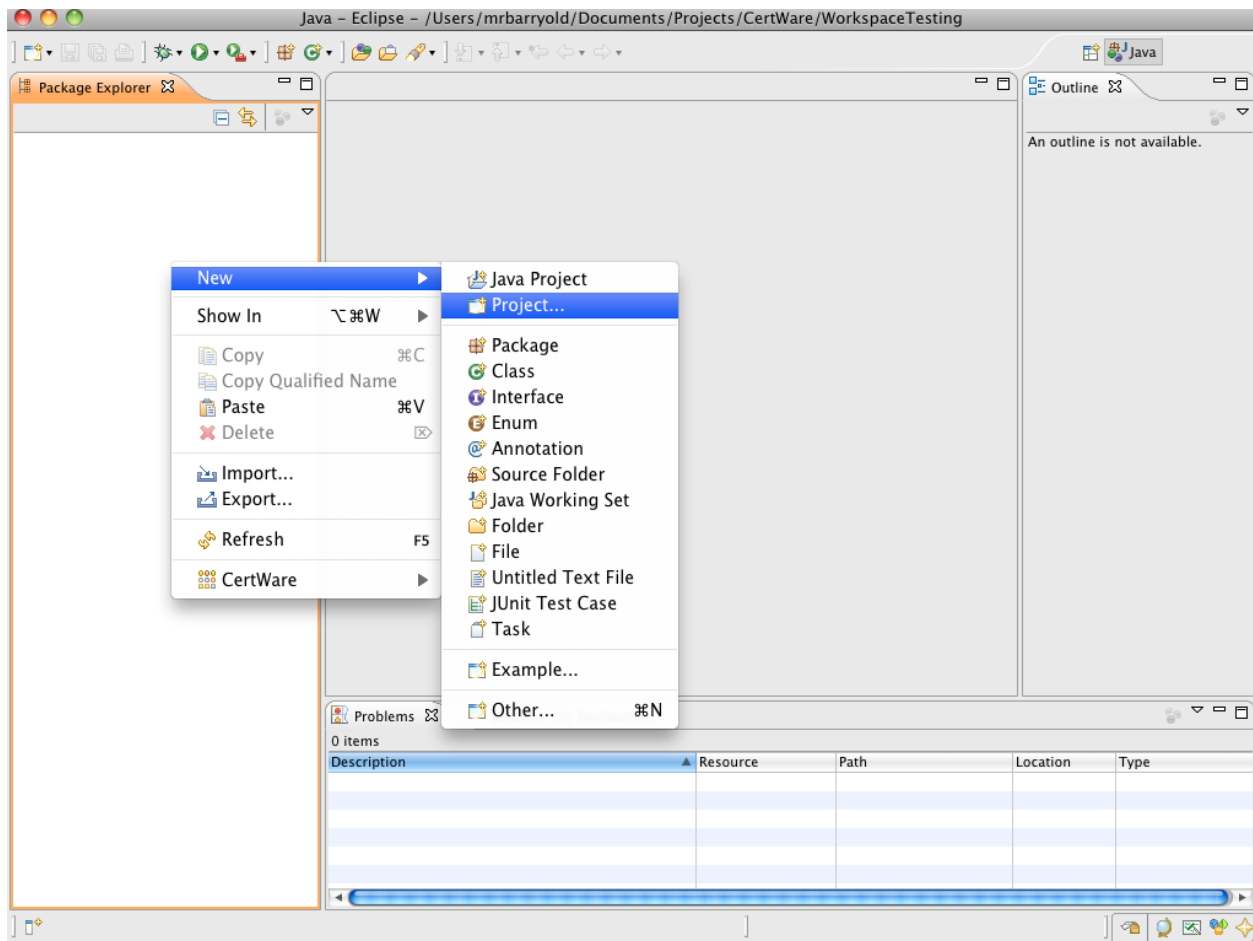CertWare is ready to use. Continue with the Quick Start section below.

Quick Start

With the Eclipse IDE workbench running with CertWare installed, the CertWare argument models, diagrams, wizards, and other features are available within the workbench. The first time the workbench opens with newly-installed features you may be presented with the "Universal Intro" page that offers introductions to these and other key features.
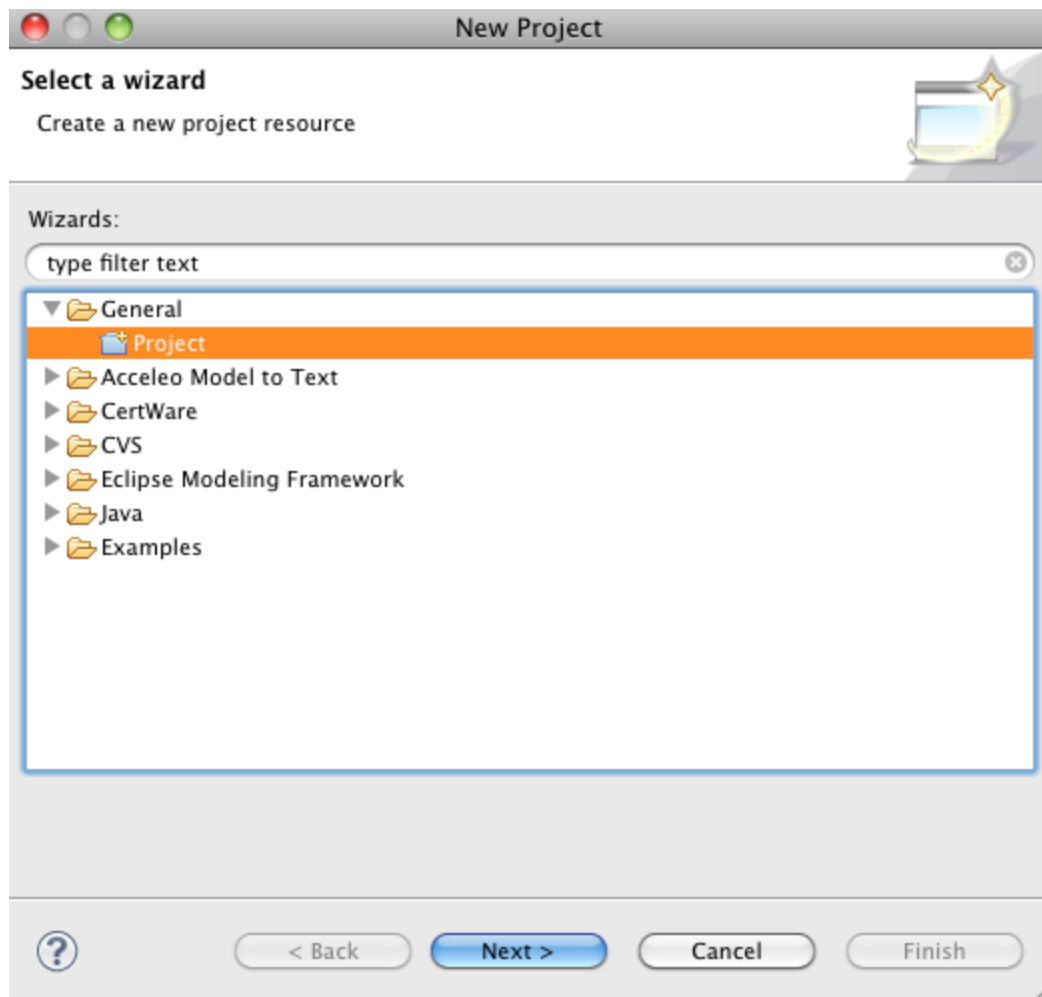
Of particular interest for CertWare in this **Overview** page are the items for "Git" and "Workbench basics". The workbench basics of course describes navigation, editors, views, and perspectives. The Git item is of interest for distributed version control because CertWare offers version history statistics from Git for its history and planning models. When finished with the Overview page, click the yellow arrow at the top-center of the page.
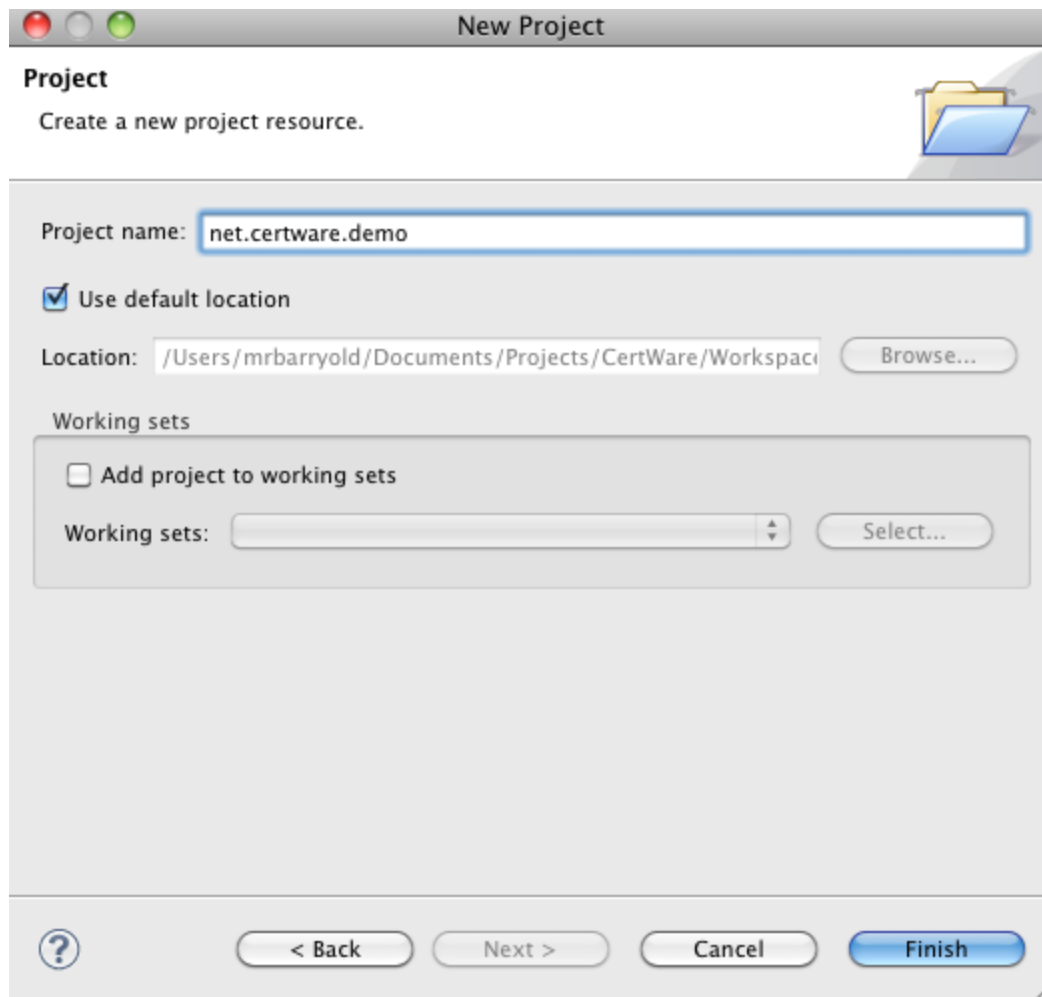
As a quick start, create a new project to contain a new safety case argument diagram from the CertWare examples wizard. To create a new project, right-click (or control-click) on the Package Explorer (or Project Explorer if it is running), and create a New Project... from the menu.
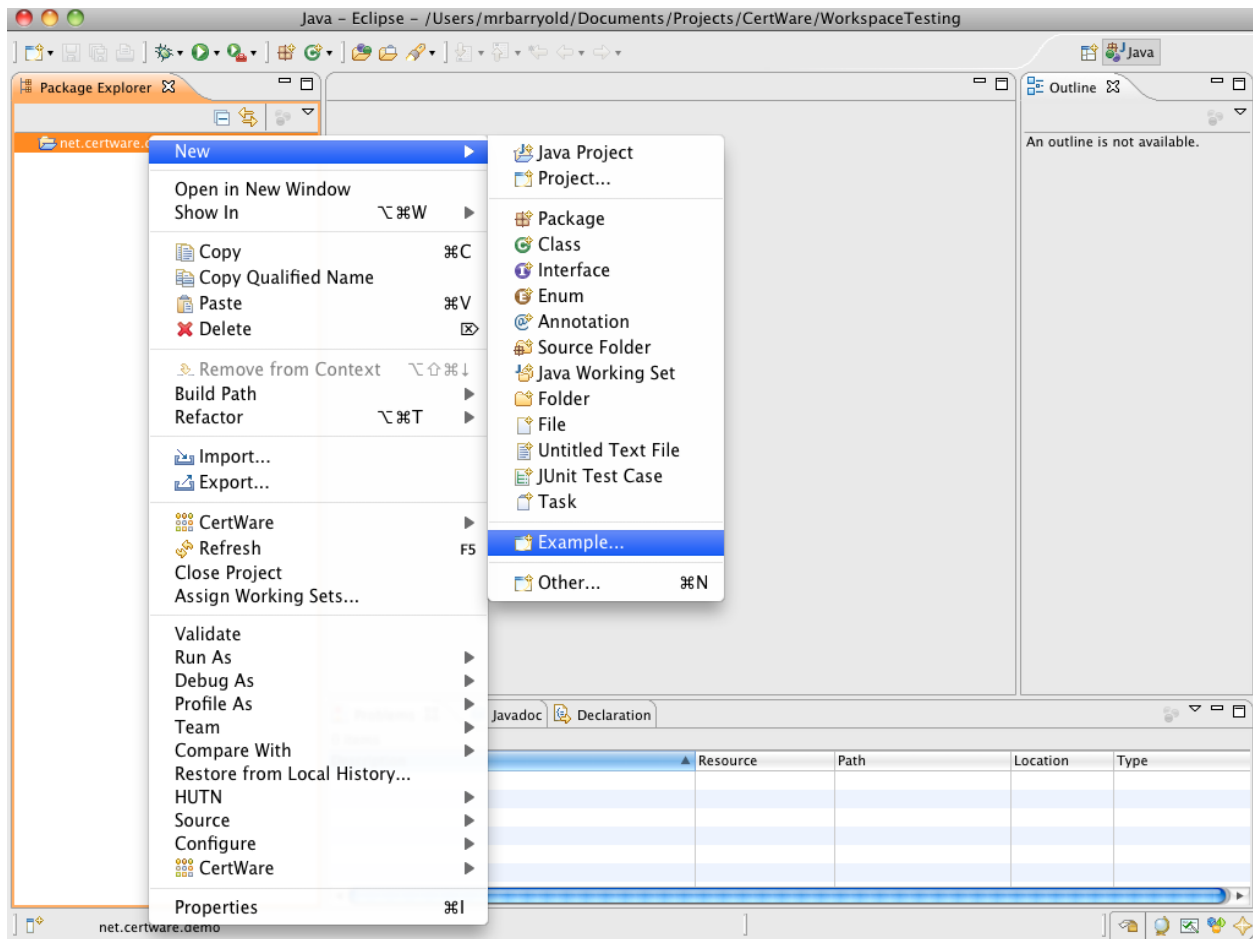
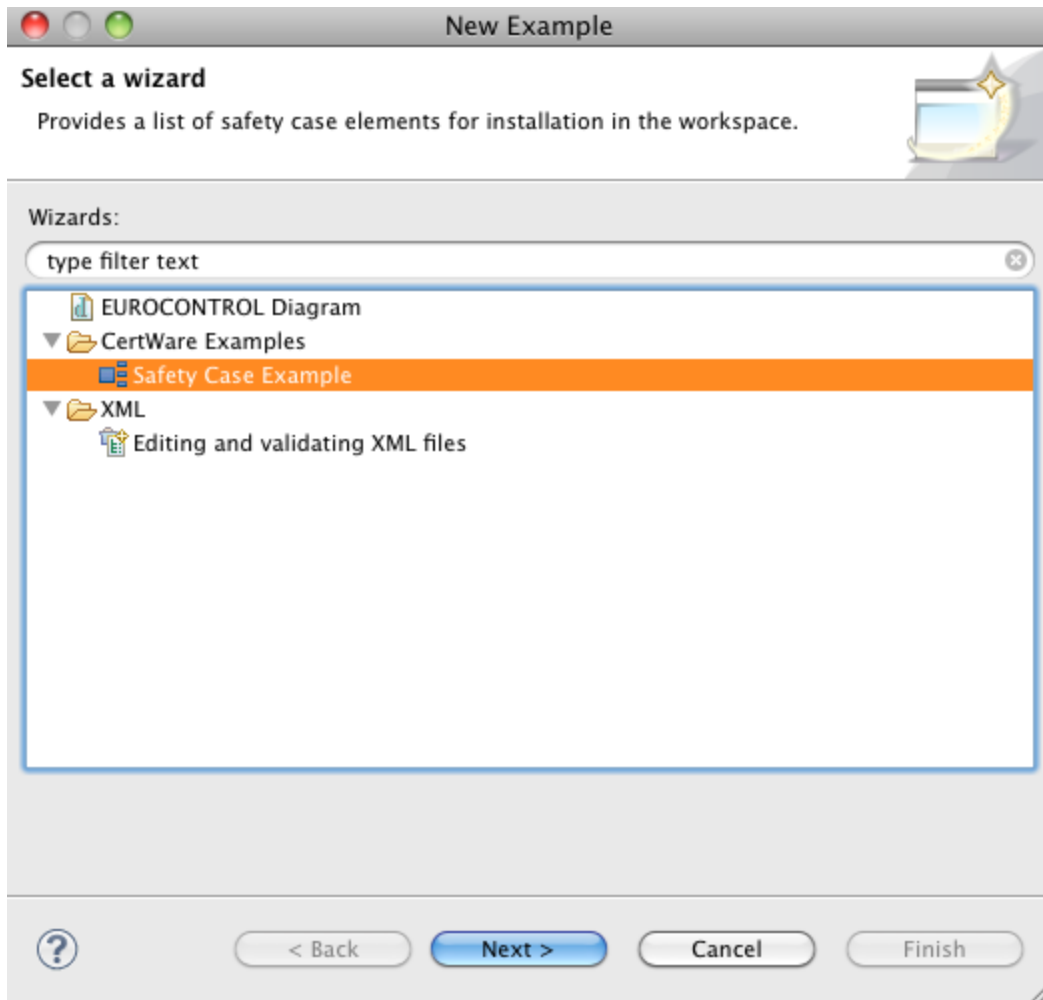Select the basic type General Project to contain the safety case artifacts.

Give the project any suitable name (**net.certware.demo** is shown below) and click **Finish** to create the project.
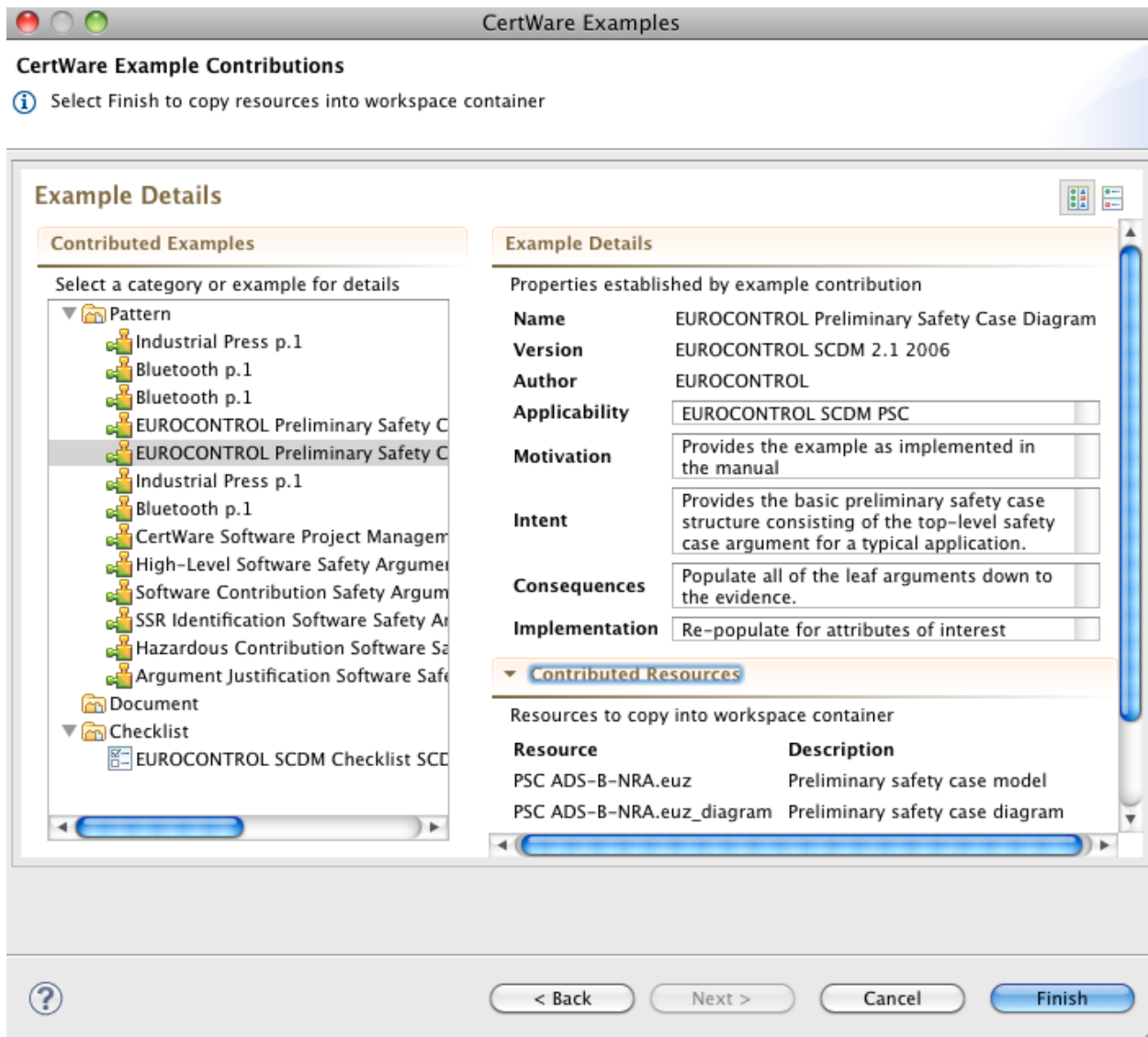
We will use the project as the container for the safety case artifacts. CertWare offers a collection of example files to use as models for new activities. Right-click (or control-click) on the project name and run the Example wizard by choosing **New -> Example...**.
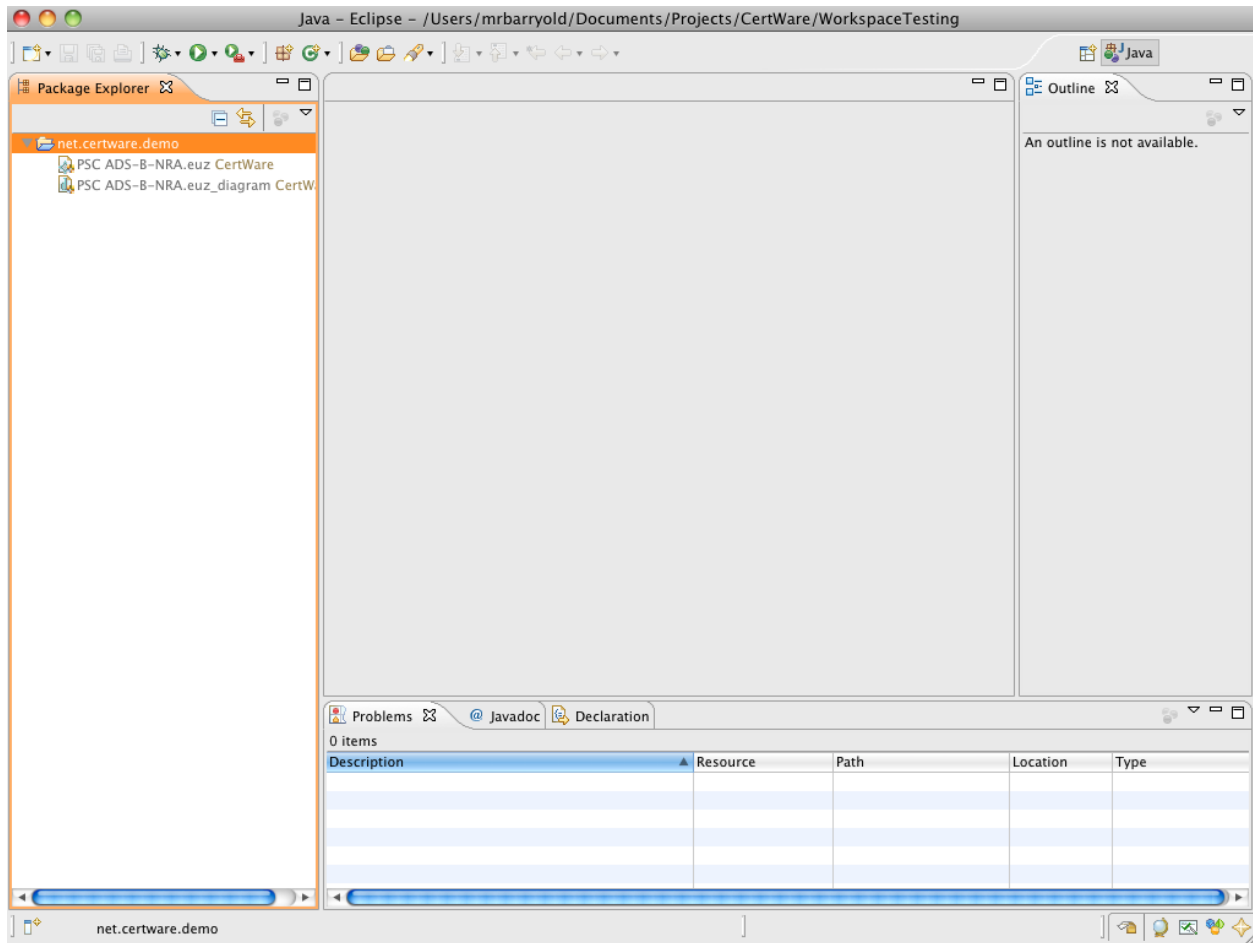
This invokes the New Example wizard. From the example selections, find the **CertWare Examples** category and choose the **Safety Case Example** wizard. Click **Next** to launch the safety case example wizard.
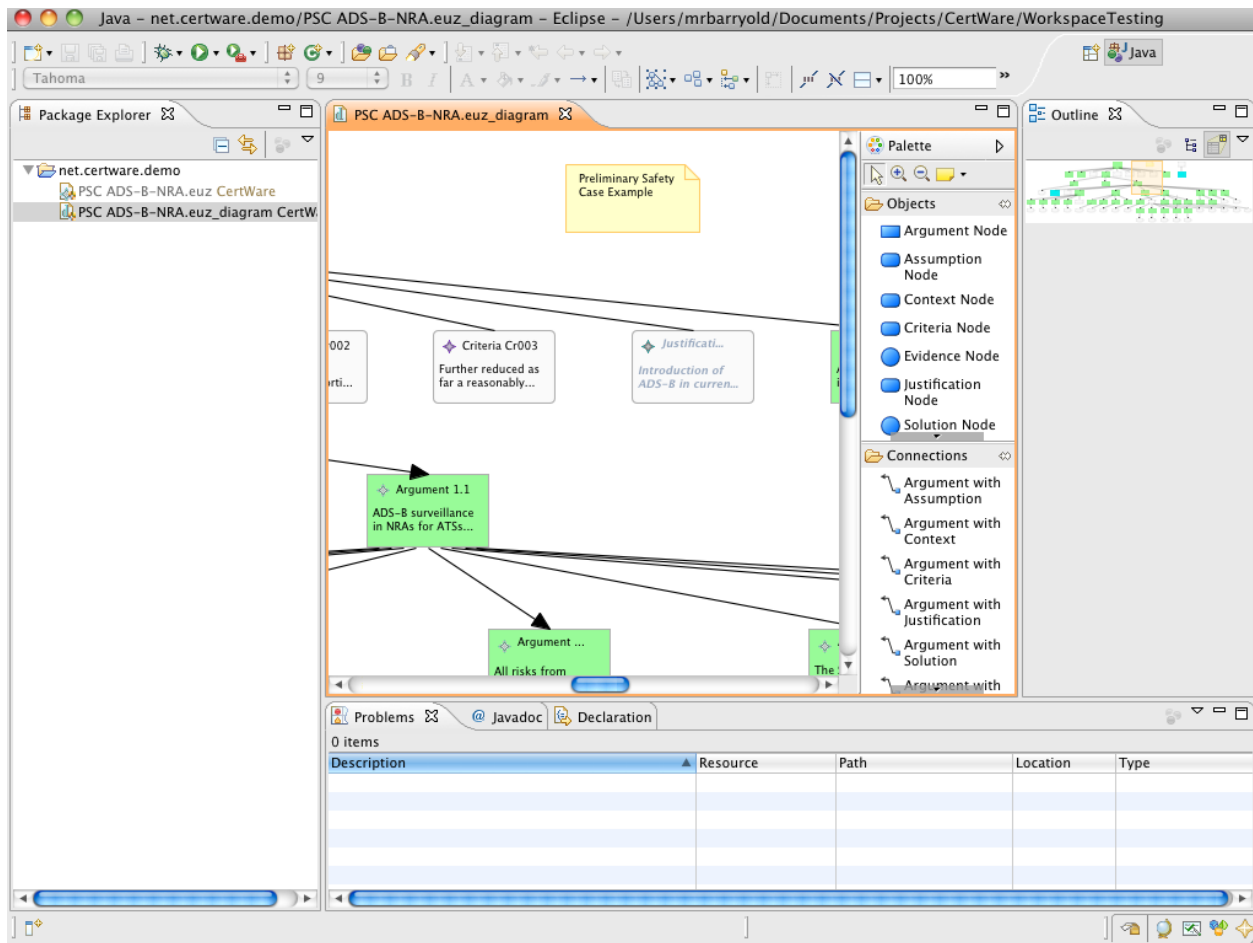
From the safety case examples wizard, choose the **Pattern** category and choose any of these examples. Selecting an item on the left of the page will show relevant detail on the right of the page. In this figure the EUROCONTROL safety case development manual diagram choice is selected. Notice on the right-hand side that this example provides two resources (artifacts), the safety case model and its safety case model diagram overlay. Click **Finish**. The example wizard then copies these two resources into the selected project.

After the wizard closes find the diagram file in the project container in the explorer.

Double-click the diagram file to launch the graphical diagram editor.

The safety case wizard, examples, and editors are provided by the CertWare feature. All other Eclipse IDE features are also available. Off and running!

- End -