

Component Development Environment Installation Guide

1. Introduction

The Component Development Environment (CDE) is available as an update package (plug-in) for the Eclipse IDE for C and C++ developers 3.6.1 (or higher). This document describes the installation procedure.

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2. Prerequisites

The CDE is a plug-in to the Eclipse IDE for C and C++ developers 3.6.1 (or higher). It also requires the presence of the Processor Expert Component Library.

If you are using an existing Eclipse environment, make sure that you have installed the supported version of Eclipse. If you have not installed Eclipse yet, download the supported version from:
<http://www.freescale.com/processorexpert>.

You can link to the Processor Expert Component Library from one of two sources:

- A CodeWarrior tools installation (which includes Processor Expert software by default)
- Processor Expert Microcontroller Driver Suite version 5.3 or later

If you are planning to use the Microcontroller Driver Suite, make sure the Microcontroller Driver Suite version 5.3 is installed within Eclipse first. You can obtain this product and installation details from:
<http://www.freescale.com/processorexpert>.

Installing CDE

2.1. Windows

To install the product on the Windows host system, following are the prerequisites:

- If the Eclipse IDE is installed in the Program Files folder, you need administrator rights to install CDE.
- If you have a non-administrative user account, install Eclipse IDE and CDE in another folder. For example, C:\CDE.
- Eclipse stores your projects in a workspace folder that you can name as you wish. However, this folder must be placed in a location where you have full access. For example, C:\Profiles\<username>\workspace.

The product has been tested on:

- Windows Vista Home Premium (32-bit)
- Windows 7 Home Premium (32-bit)
- Windows XP Professional (32-bit)
- Windows 7 Professional (32-bit)

2.2. Linux

Eclipse stores your projects in a workspace folder that you can name as you wish. However, this folder must be placed in a location where you have full access. Make sure your workspace has read/write permissions set to be accessible by Eclipse.

The product has been tested on Linux Ubuntu 8.10 (32-bit).

3. Installing CDE

[Table 1](#) lists the contents of the CDE installation package.

Table 1. Component Development Environment Installer Contents

File	Description
com.freescale.eclipse.3.6.updater.custom.update site.zip	FSL Eclipse Updater
com.freescale.eclipse3.6.ComponentDev1.0.1ForDriverSuite.update site.zip	Component Development Environment for MCU Driver Suite 5.3
com.freescale.eclipse3.6.ComponentDev1.0.1.update site.zip	Component Development Environment Standalone
CDEUG.pdf	User Guide
CDEINSTALLUG.pdf	Product Installation Guide
README.txt	Last minute release information (text format)

Overview of the CDE installation process:

1. Use the Eclipse IDE's **Add New Software** mechanism to install the Freescale Eclipse Updater.

2. Use the Eclipse IDE's **Add New Software** mechanism to connect to an “update site” that is part of this package. This contains the actual CDE. There are two update sites in this package. One contains a version of CDE that works alone. The other contains a version of CDE that works with the Microcontroller Driver Suite version 5.3. Pick the one that works for your setup.
3. If you are installing the CDE to work with the Microcontroller Driver Suite, that must be installed first. For more information, refer to the [Prerequisites](#) topic.

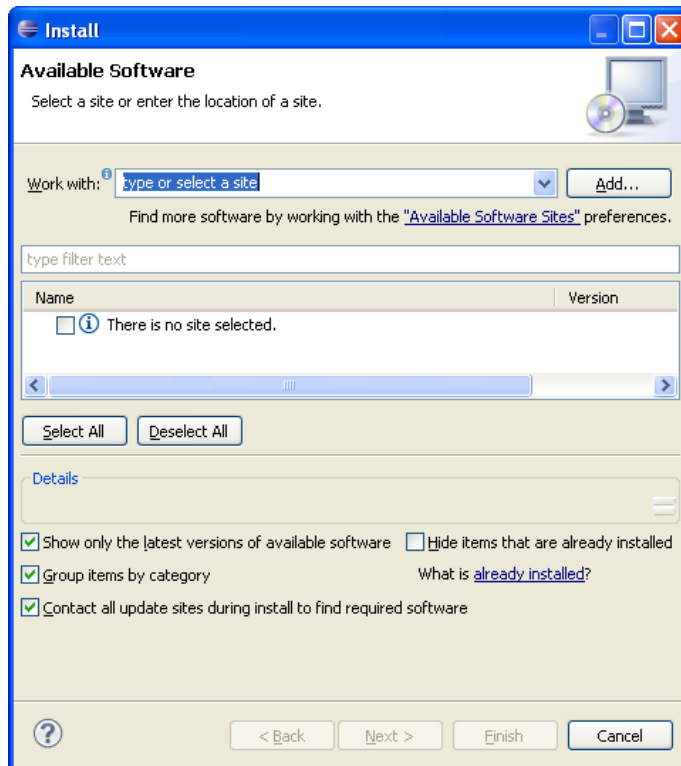
3.1. Installing FSL Eclipse Updater

To install the CDE, you first need to install the FSL Eclipse Updater (included in this product).

NOTE If you have already installed FSL Eclipse Updater in this Eclipse IDE, you can skip to the next section. While it is necessary to install FSL Eclipse Updater first, you only need to install it once. Once installed, it is not required to install it again in subsequent updates.

1. Launch the Eclipse environment.
2. Select **Help > Install New Software** from the main menu bar. The **Available Software** window appears ([Figure 1](#)).

Figure 1. Available Software Window

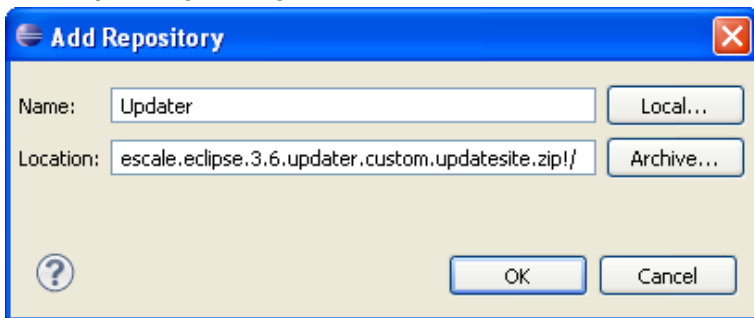


3. Click **Add** to create a new update site. The **Add Repository** dialog box appears.
4. Type a name for the update site in the **Name** text box, for example, *Updater* ([Figure 2](#)).

Installing CDE

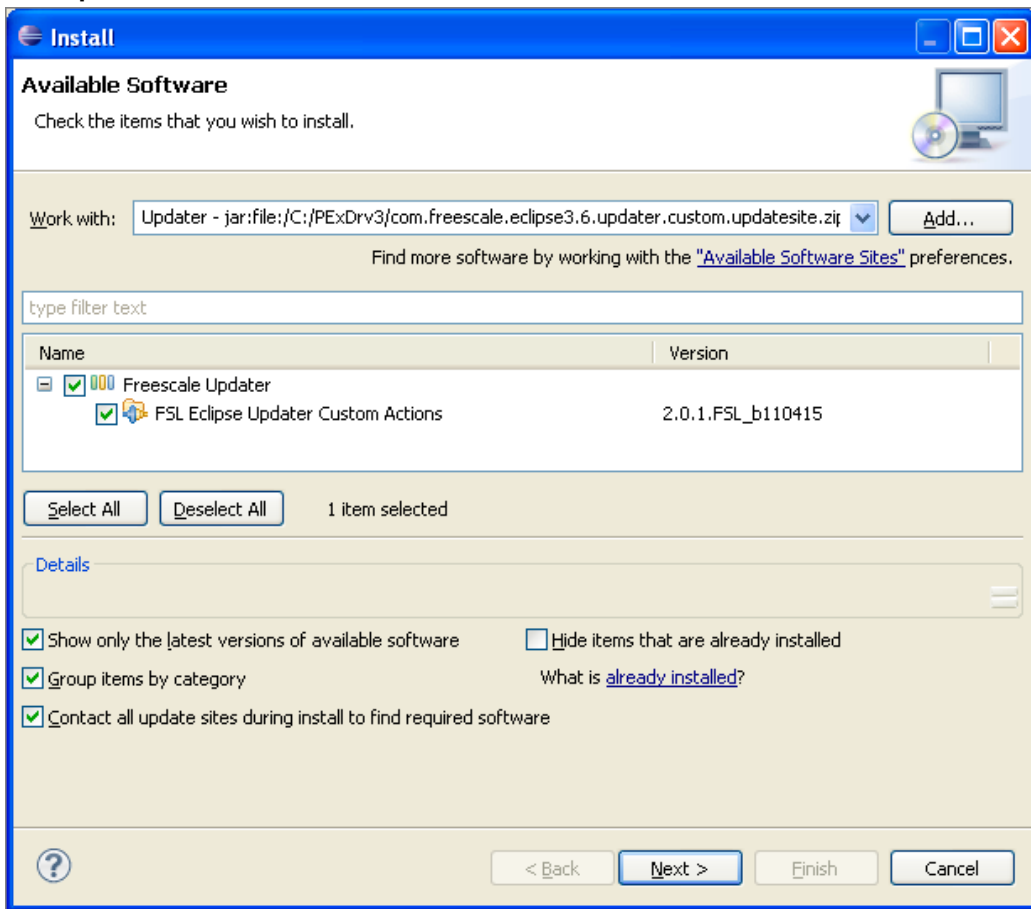
- Click **Archive** and find the updater installation package (Figure 2).

Figure 2. Add Repository Dialog Box



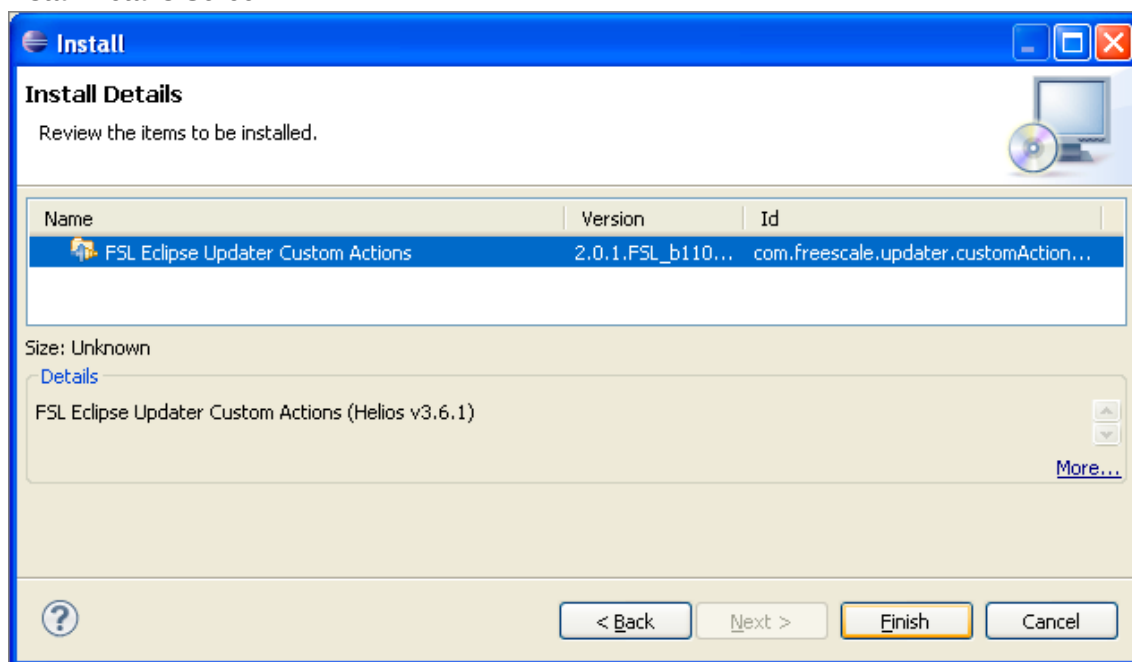
- Click **OK**. The FSL Eclipse Updater appears in the **Available Software** window (Figure 3).

Figure 3. FSL Updater in Available Software Window



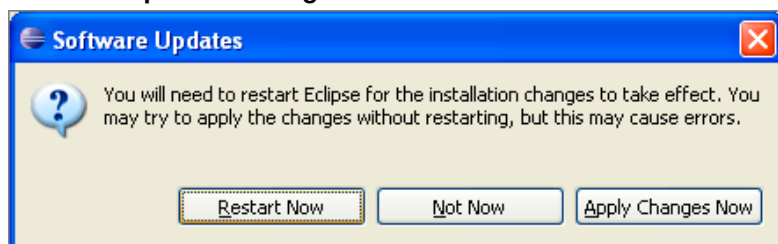
- Select **FSL Eclipse Updater Custom Actions** and click **Next**. The **Install Details** screen appears (Figure 4).

Figure 4. Install Details Screen



8. Click **Finish**
9. Click **OK**. You will see another screen about trusting the Freescale certificate. You must actively select the certificate before continuing; it is off by default (as it should be). Click **OK**. Once accepted, restart Eclipse ([Figure 5](#)).

Figure 5. Software Updates Dialog Box



When the installation of the updater is complete, you can move on to install the CDE.

3.2. Installing CDE

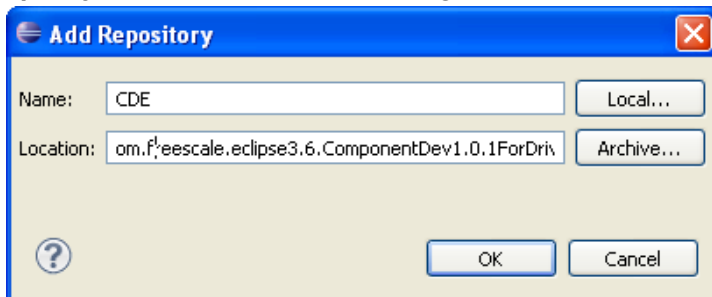
If you intend to use the CDE in conjunction with the Microcontroller Driver Suite version 5.3, that product must be installed first. For more information, refer to the [Prerequisites](#) topic, and ensure that you install it first.

1. Launch the Eclipse environment.
2. Go to **Help > Install New Software**.
3. Click **Add** to create a new update site. The **Add Repository** dialog box appears.

Installing CDE

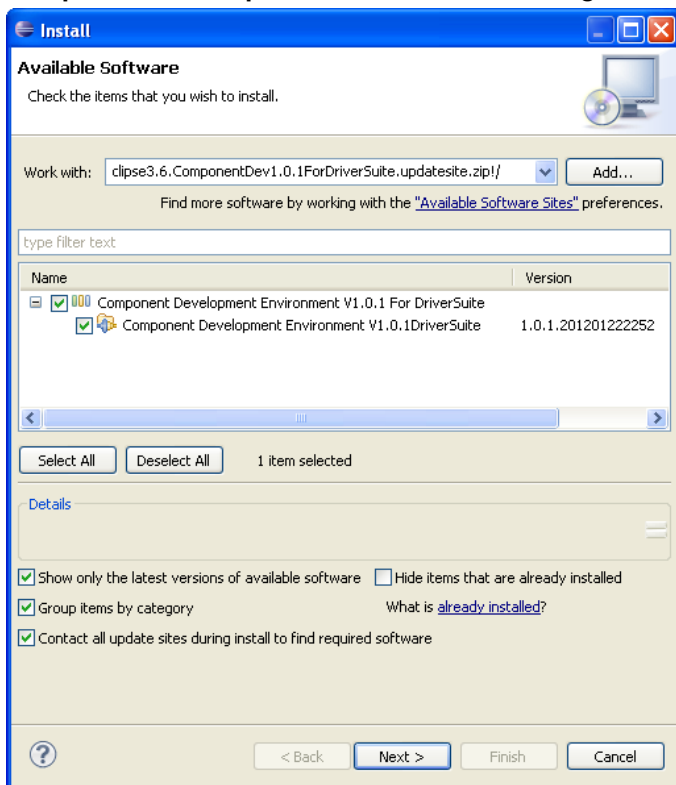
4. Type a name for the update site in the **Name** text box, for example, CDE ([Figure 6](#)).
5. Click **Archive** and specify the product installation package, in the **Location** text box. Pick the update site you wish: either the standalone or the version for use with the Microcontroller Driver Suite. [Table 1](#) lists all the files.

Figure 6. Specify Product Installation Package Details



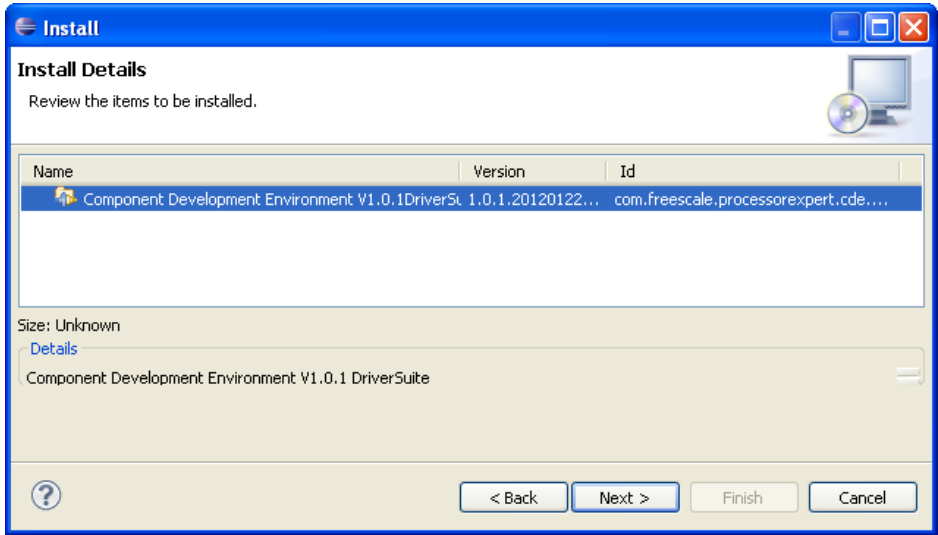
6. Click **OK**. The CDE package appears in the **Available Software** window ([Figure 7](#)).

Figure 7. Component Development Environment Package



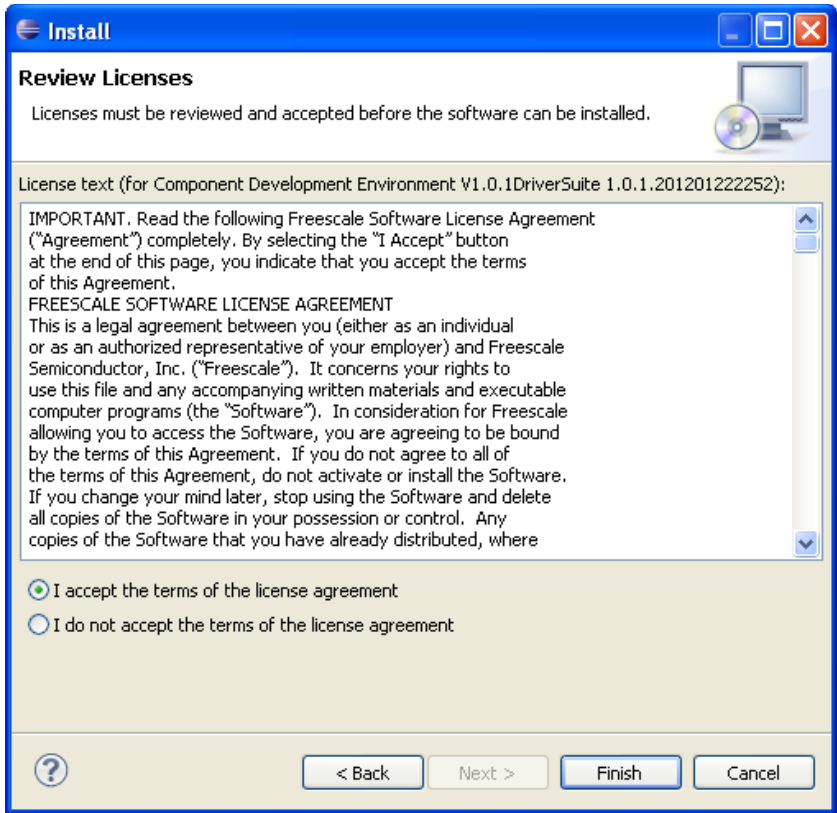
7. Select **Component Development Environment** in the **Name** column, and click **Next**. The **Install Details** screen appears ([Figure 8](#)).

Figure 8. Install Details Screen — Component Development Environment



8. Click **Next**. The **Review Licenses** screen appears ([Figure 9](#)).

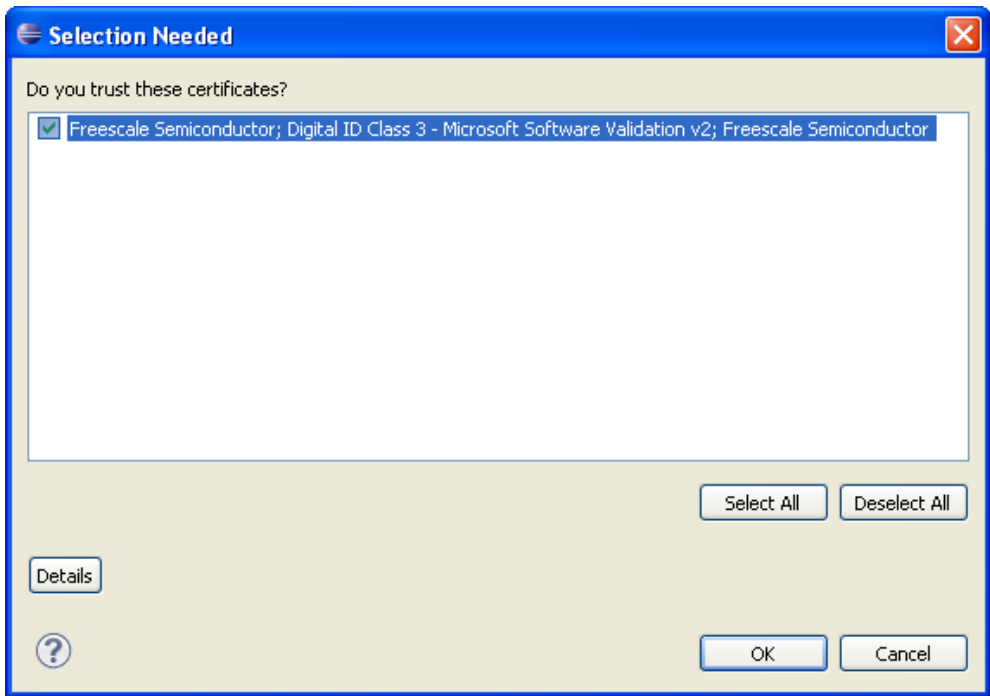
Figure 9. Review Licenses Screen



9. Accept the license agreement and click **Finish**.

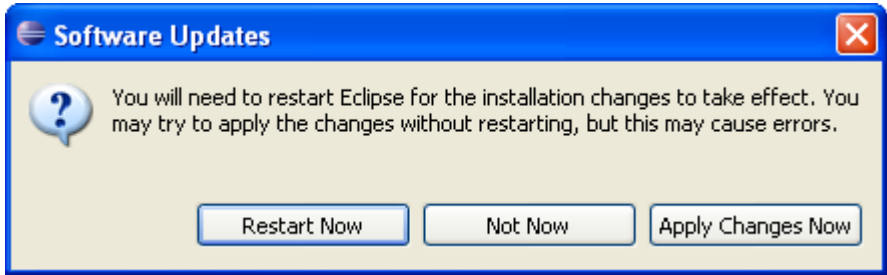
10. Select Freescale certificate and click **OK** ([Figure 10](#)).

Figure 10. Certificate Selection



11. Click **Restart Now** in the **Software Updates** dialog box to restart Eclipse ([Figure 11](#)).

Figure 11. Certificate Selection

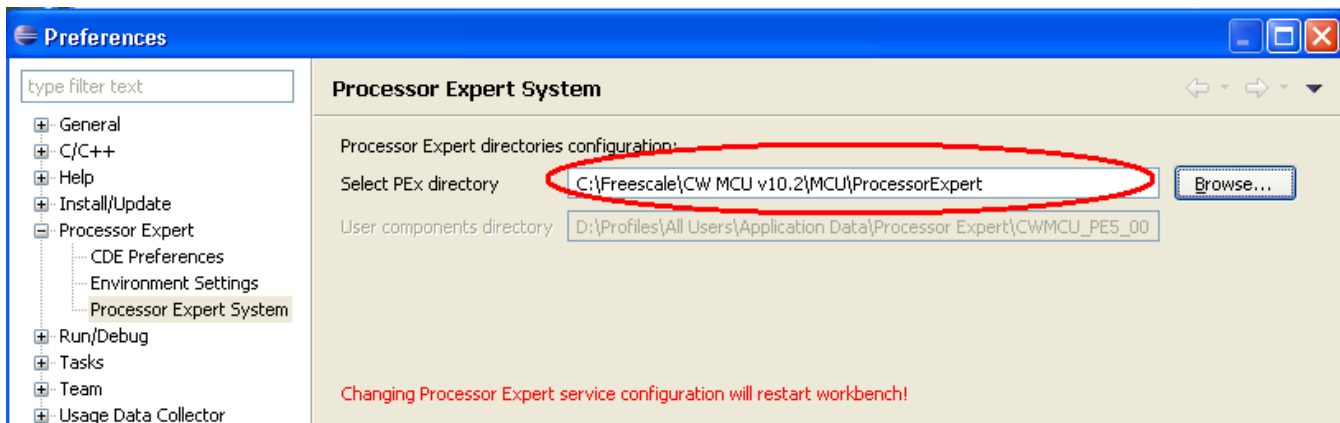


3.3. Connecting to the Component Library

The CDE points to the Processor Expert Component Library. When you first launch the CDE, you may see a dialog box stating that it cannot find the Processor Expert folder.

If this happens, click the button in the dialog to open the Preferences panel ([Figure 12](#)). Use the Browse button to locate the Processor Expert folder.

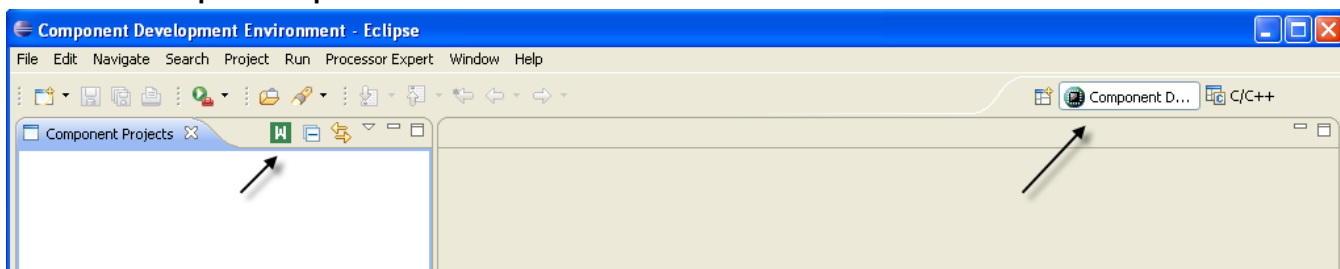
Figure 12. Preferences Panel



For example, in a default installation of the CodeWarrior 10.2 tools, the path is as noted in [Figure 12](#). Once you make the change, the tool restarts. This completes the installation of the CDE.

After successful installation, the CDE enables a new perspective in the Eclipse environment ([Figure 13](#)). Select **Windows > Open Perspective > other ...** then click the CDE to display the perspective.

Figure 13. Processor Expert Perspective



If the wizard icon  is green, a valid license was found. If not, then place the `license.dat` file in the Processor Expert directory. The directory location varies depending on the host environment in which the CDE is installed. It can work with Eclipse IDE associated with a variety of tools such as the CodeWarrior tools. However, you should have no trouble finding it. It begins with the installed location of the host environment. Here are some examples.

```
<Eclipse_with_Driver_Suite5.3_Installation_Path>\eclipse\
ProcessorExpert>
<CW10.2_InstallationPath\MCU\ProcessorExpert>
```

To obtain a license, download a free version of the tools or purchase a commercial version. You can learn about the CDE at: <http://www.freescale.com/processorexpert>.

If you have license problems, contact Freescale support at: <http://www.freescale.com/support>.

Installing CDE

You can start using the CDE by clicking the Wizard Icon or selecting **File > New> Embedded Component** to create a new Processor Expert Component. For more information, refer to the User Guide or Quick Start Guide.

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