

Processor Expert Software — Microcontrollers Driver Suite Installation Guide

The Microcontrollers Driver Suite product offers two installation options, a full product installation (which includes its own eclipse environment) and an update package for Eclipse IDE C and C++ developers 3.7.x and 3.6.x (to be installed into an already existing eclipse environment).

This document describes how to install Microcontrollers Driver Suite. It also provides instructions on removing the previous version of Microcontrollers Driver Suite from the Eclipse environment.

To install Processor Expert Software Microcontrollers Driver Suite, double-click the installation package and a wizard will guide you through the installation process. There is no license necessary to run this product.

Contents

1. Eclipse Plugin Installation	1
1.1.Windows	2
1.2.Linux	2
2. Remove Previous Version	2
3. Installing Microcontrollers Driver Suite	4
3.1.Installing FSL Eclipse Updater	5
3.2.Installing Microcontrollers Driver Suite Package ..	7

1 Eclipse Plugin Installation

If you are using an existing Eclipse environment, make sure that you have installed the supported version of Eclipse. If you have not installed supported version of Eclipse yet, it is recommended to download the supported version from the link below:

<http://www.eclipse.org/downloads/packages/eclipse-ide-cc-developers-incubating-components/indigor>

1.1 Windows

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

- Administrator rights are required to run Eclipse Updater to install this product on a Windows system when the Eclipse is installed into the *Program Files* folder.
- If you are running Windows with non-administrative user account, you need to install Eclipse and this product in another folder. For example, *C:\Freescale\PEXDriverSuite v10.0.0*.
- Eclipse stores your projects in a folder called workspace. This folder needs to be setup in any folder that you can fully access. For example, *C:\Profiles\<username>\workspace*.

The product has been tested on:

- Windows Vista Home Premium (32-bit, 64-bit)
- Windows 7 Home Premium (32-bit, 64-bit)
- Windows XP Professional (32-bit, 64-bit)
- Windows Vista Business (32-bit, 64-bit)
- Windows 7 Professional (32-bit, 64-bit)
- Windows 8 Professional (32-bit, 64-bit)

1.2 Linux

To install the product on Linux, following is the prerequisite:

- Eclipse stores your project in a folder called workspace. For example, */home/<username>/workspace*. Make sure your workspace has read/write permissions set to be accessible by Eclipse.

The product has been tested on:

- Linux Ubuntu 10.4 (32-bit, 64-bit)
- Linux Red Hat Enterprise 5.4 (32-bit, 64-bit)

2 Remove Previous Version

If you have already installed previous version of Microcontrollers Driver Suite, it is recommended to remove it first.

1. Run the Eclipse environment.
2. Select **Help > Install New Software** from the main menu bar. The **Available Software** screen appears.

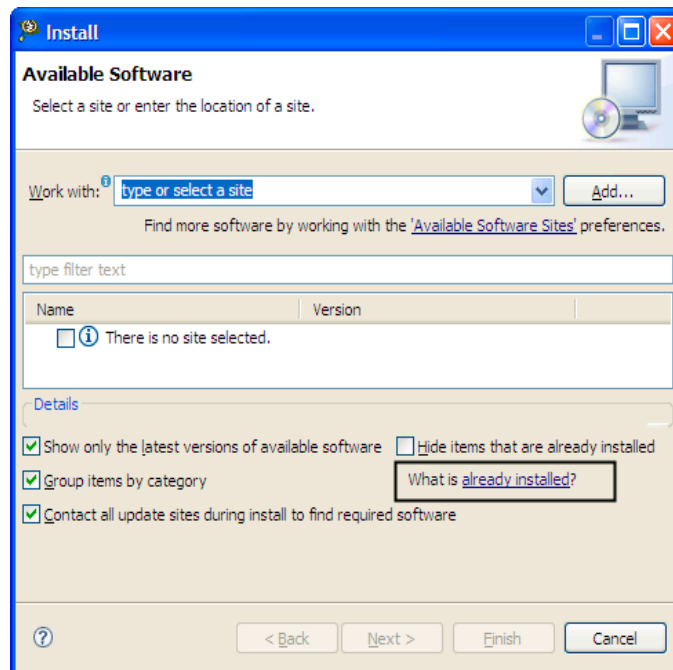


Figure 1. Available Software Screen — What is already installed Link

3. Click the **What is already installed?** link. The **Eclipse Installation Details** window appears displaying a list of already installed software (Figure 2).

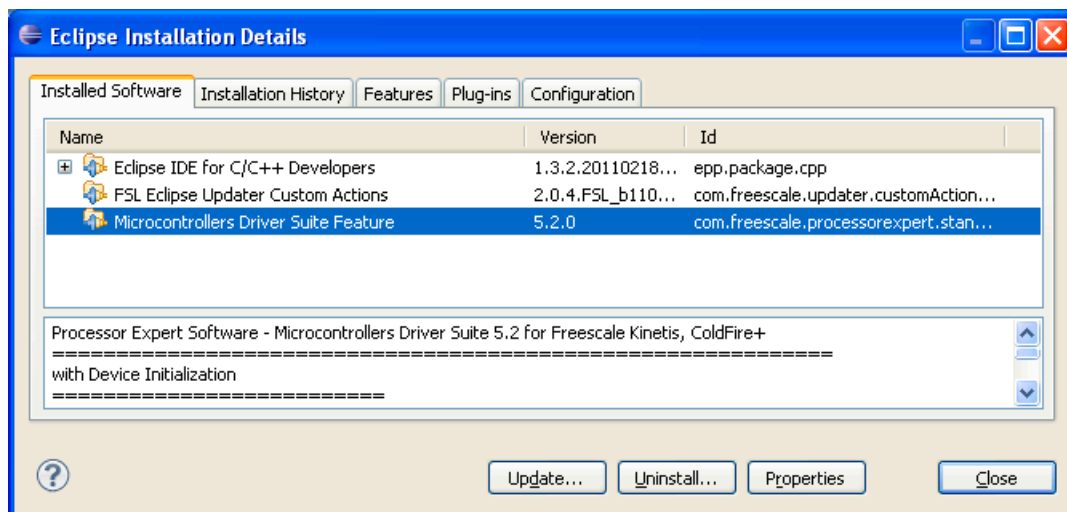


Figure 2. Eclipse Installation Details Window — List of Already Installed Software

4. Select **Microcontrollers Driver Suite Feature** in the list and click **Uninstall**. The **Uninstall Details** window appears.

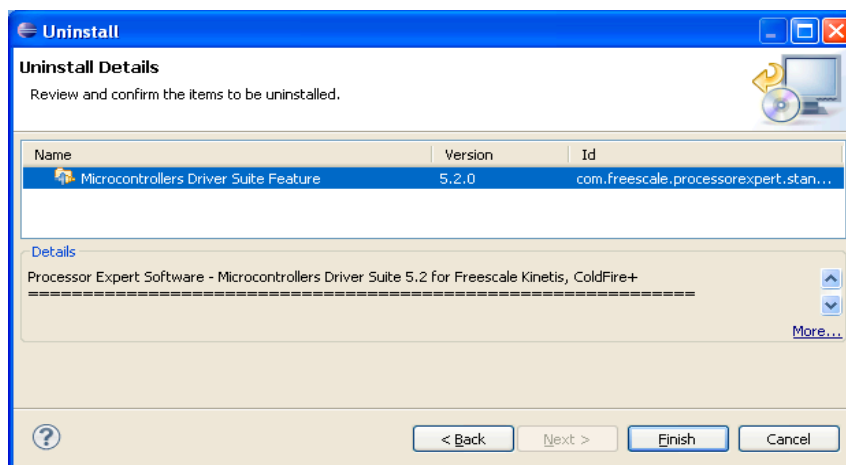


Figure 3. Uninstall Details Window

5. Click **Finish** to start the uninstallation process. The **Software Updates** dialog box appears.

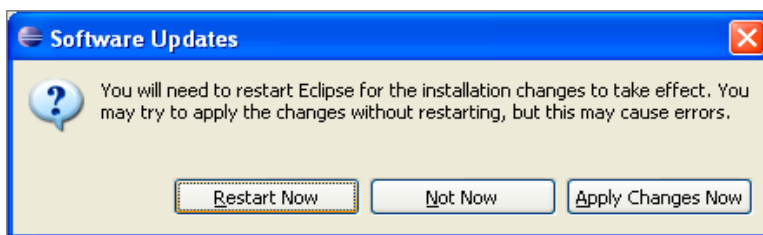


Figure 4. Software Updates Dialog Box

6. Click **Yes** to restart Eclipse. This removes the previous version of Microcontrollers Driver Suite.

NOTE

Do not forget to manually remove obsolete Processor Expert folder from the previous installation.

3 Installing Microcontrollers Driver Suite

Table 3-1 lists the sources of the installation packages of Microcontrollers Driver Suite.

Table 3-1. Microcontrollers Driver Suite Installation Sources

File	Description
com.freescale.eclipse3.6.updater.custom.updatesite.zip	Extended Eclipse updater package (for Eclipse 3.6)
com.freescale.eclipse3.7.pexdrv10_0.updatesite.zip	Product installation package (for Eclipse 3.6)
com.freescale.eclipse.3.7.updater.custom.updatesite.zip	Extended Eclipse updater package (for Eclipse 3.7)
com.freescale.eclipse3.7.pexdrv10_0.updatesite.zip	Product installation package (for Eclipse 3.7)
PEXDRVSPEXUG.pdf	Processor Expert User Manual
PEXDRVSDEVINUG.pdf	Device Initialization User Manual
PEXDRVINSTALLUG.pdf	Product installation guide (this document)

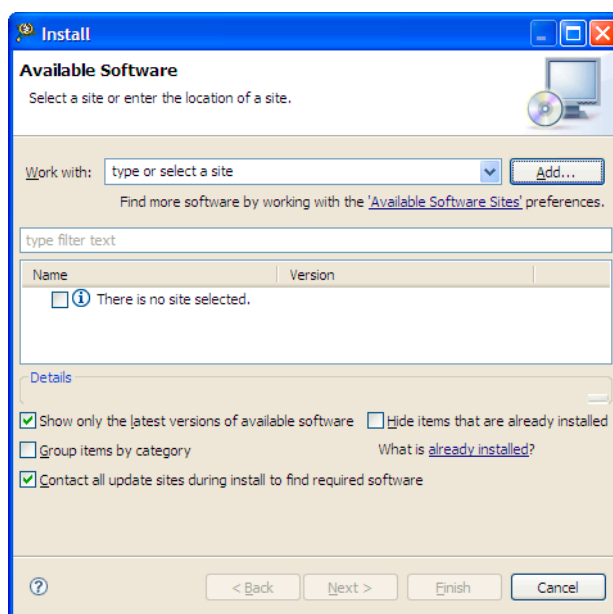
Table 3-1. Microcontrollers Driver Suite Installation Sources

PEXDRVGETSTARTEDUG.pdf	Getting Started Guide
README.txt	Last minute release information (text format)
README.html	Last minute release information (html format)

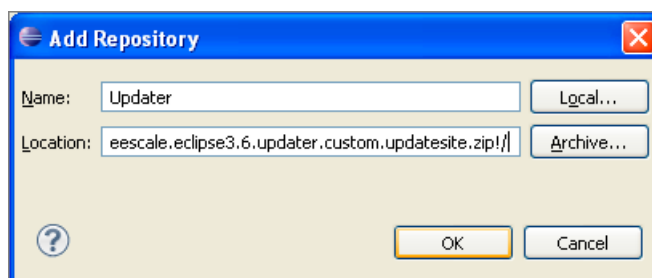
To install Microcontrollers Driver Suite, you need to first install the FSL Eclipse Updater.

3.1 Installing FSL Eclipse Updater

1. Run the Eclipse environment.
2. Select **Help > Install New Software** from the main menu bar. The **Available Software** window appears (Figure 5).

**Figure 5. 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 6).
5. Click **Archive** and find the updater installation package (Figure 6).

**Figure 6. Add Repository Dialog Box**

6. Click **OK**. The FSL Eclipse Updater appears in the **Available Software** window (Figure 7).

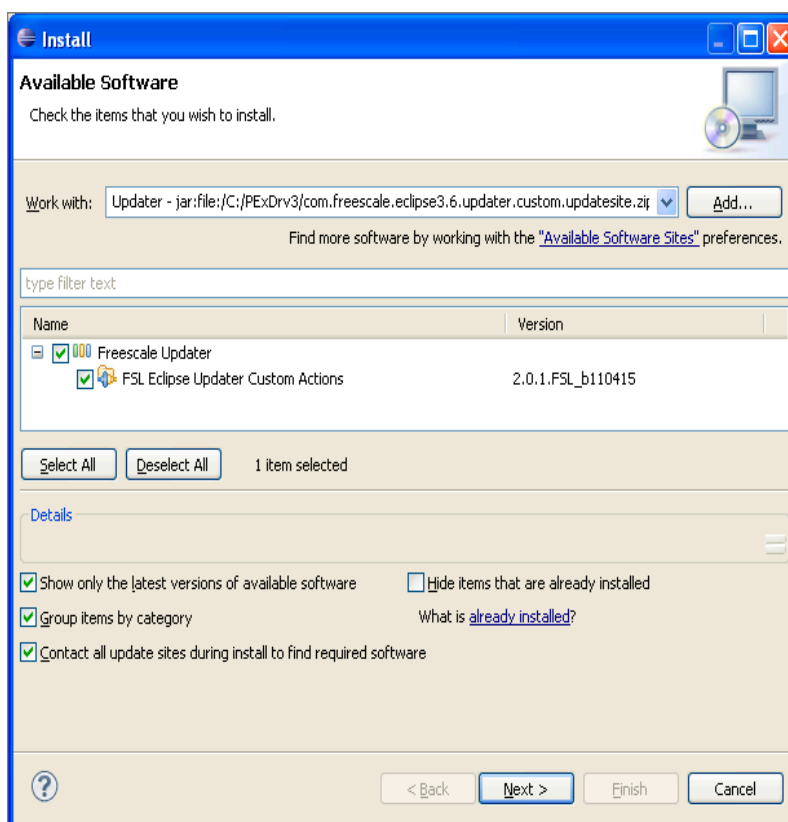


Figure 7. FSL Updater in Available Software Window

7. Select **FSL Eclipse Updater Custom Actions** and click **Next**. The **Install Details** screen appears (Figure 8).

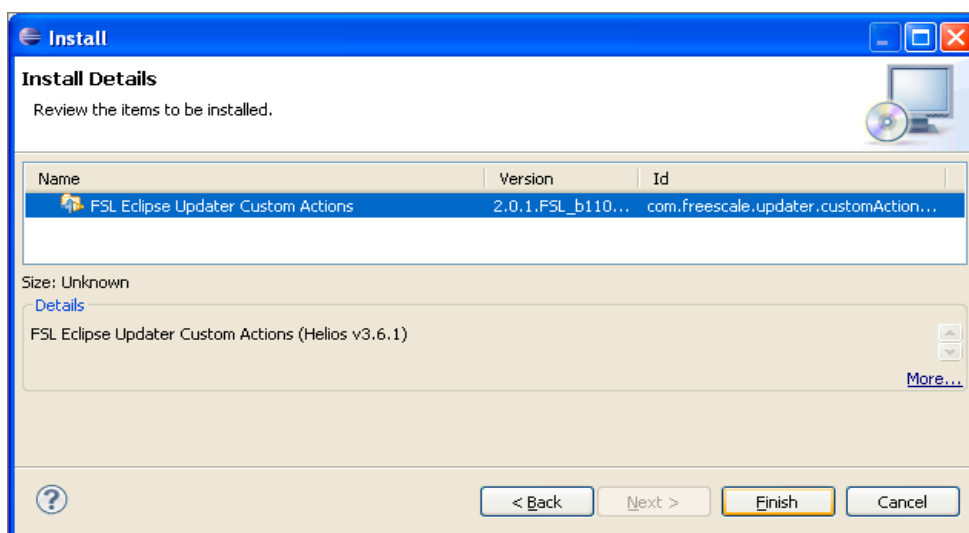


Figure 8. Install Details Screen

8. Click **Finish**. The **Selection Needed** screen appears.

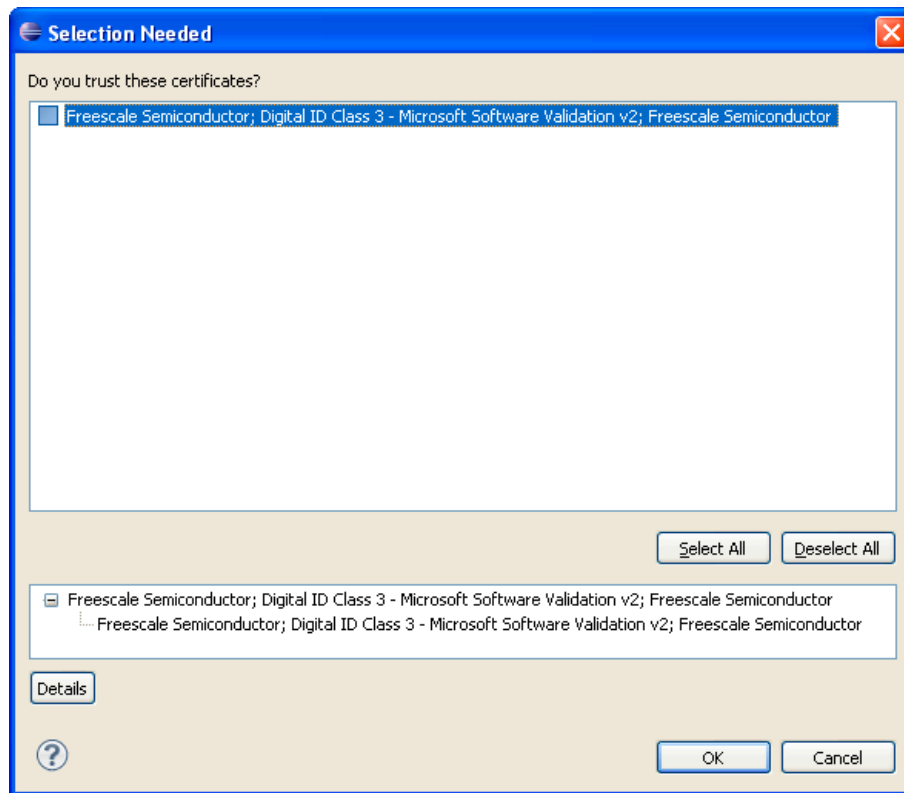


Figure 9. Selection Needed Screen

NOTE

It is necessary to install FSL Eclipse Updater first before installing the Microcontrollers Driver Suite. The FSL Eclipse Updater is required to be installed into the Eclipse environment for first time update only. Once installed, it is not required to install it again in next updates.

9. Check the **Freescal Semiconductor; Digital ID Class 3** checkbox.
10. Click **OK**. The **Software Updates** dialog box appears (Figure 4).
11. Click **Yes** to restart Eclipse. This completes the installation of FSL Eclipse Updater.

After restarting Eclipse, perform installation for the Microcontrollers Driver Suite part as described below.

3.2 Installing Microcontrollers Driver Suite Package

1. Run 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.
4. Type a name for the update site in the **Name** text box, for example, *PEXDrv* (Figure 10).
5. Click **Archive** and specify the product installation package, in the **Location** text box. Refer Table 3-1 to find the product installation package for your Eclipse version.

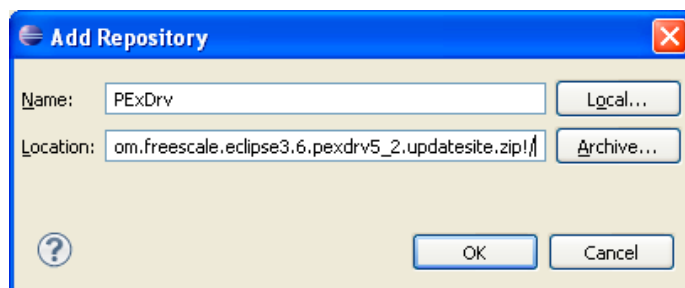


Figure 10. Specify Product Installation Package Details

- Click **OK**. The Microcontrollers Driver Suite package appears in the **Available Software** window (Figure 11).

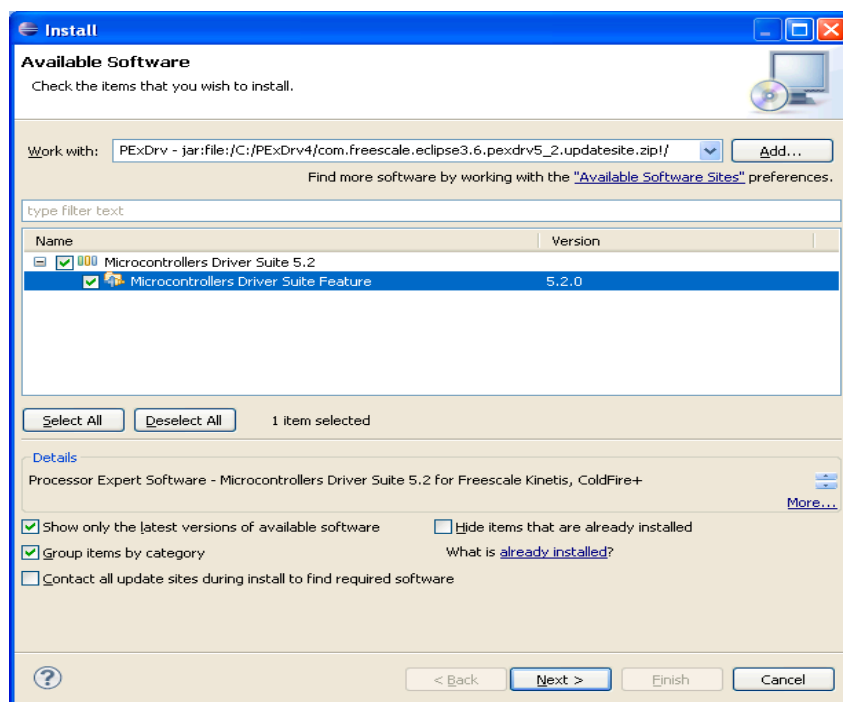


Figure 11. Microcontrollers Driver Suite Package

- Select **Microcontrollers Driver Suite** in the **Name** column, and click **Next**. The **Install Details** screen appears (Figure 12).

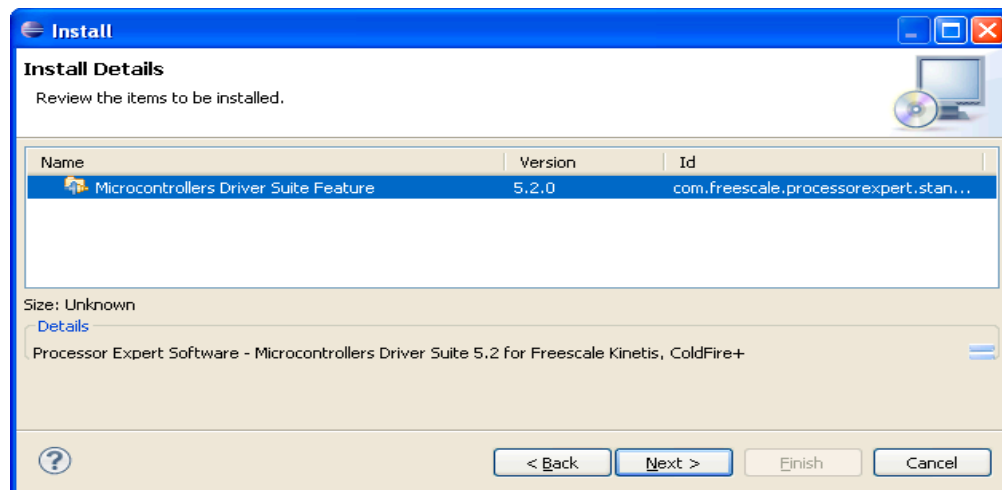


Figure 12. Install Details Screen — Microcontrollers Driver Suite

8. Click **Next**. The **Review Licenses** screen appears (Figure 13).

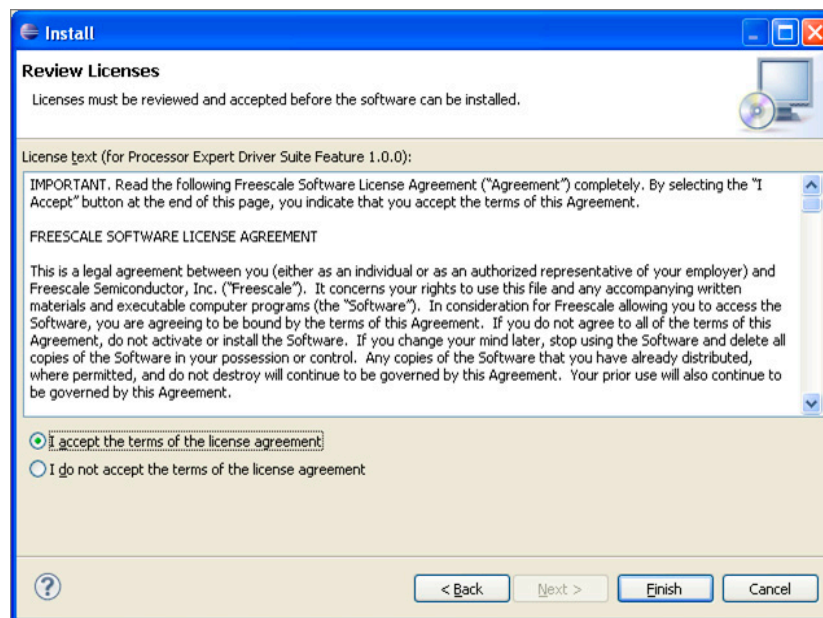


Figure 13. Review Licenses Screen

9. Accept the license agreement and click **Finish**. The **Selection Needed** screen appears.
10. Check the **Freescale Semiconductor; Digital ID Class 3** checkbox and click **OK**.
11. Click **Yes** in the **Software Updates** dialog box to restart Eclipse. This completes the installation of Microcontrollers Driver Suite.

After successful installation, the **Processor Expert** menu appears in the Eclipse environment (Figure 14). Select **Processor Expert > Show Views** to display the Processor Expert perspective.

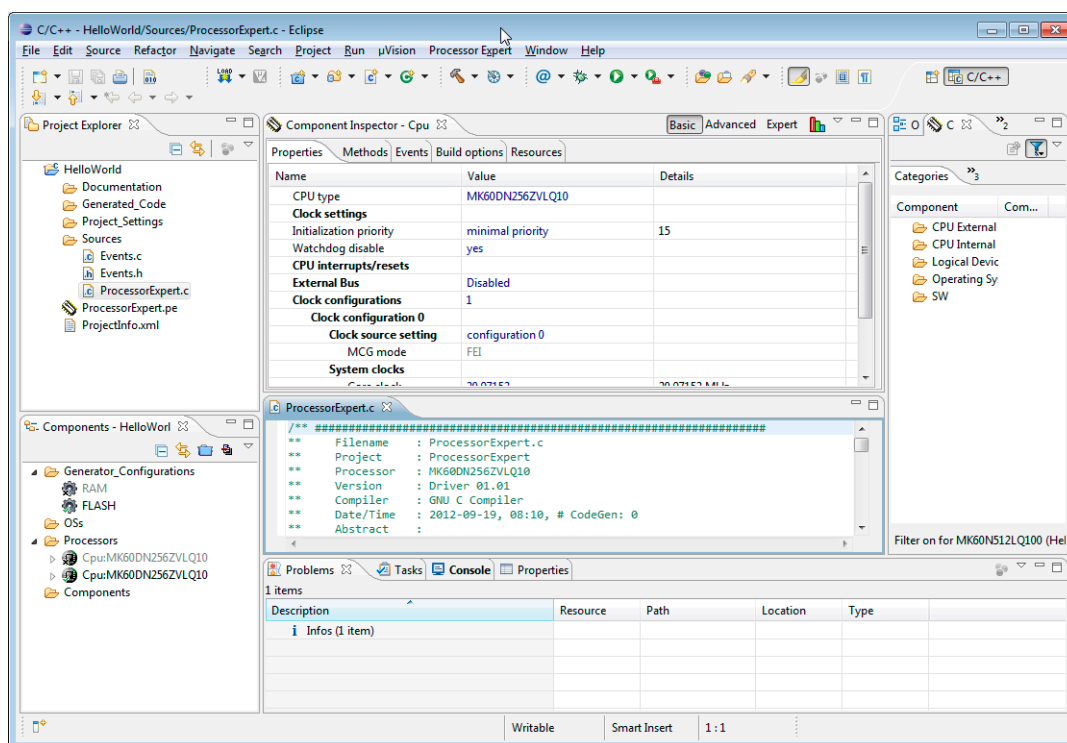


Figure 14. Processor Expert Perspective

You can start using the Microcontrollers Driver Suite inside the Eclipse environment. Select **File > New > Processor Expert Project** to create a new configuration project. For more details, refer the *Microcontrollers Driver Suite Getting Started User Guide*.

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