Building a Project using IAR Eclipse Plugin

Processor Expert Microcontrollers Driver Suite

Processor Expert Microcontrollers Driver Suite is an Eclipse based application for the rapid embedded application development. Processor Expert Microcontrollers Driver Suite does not contain default build tool chains. It is expected that the user will install appropriate Eclipse plugin or will use generated code in 3rd party development tools.

Contents

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1   About this Note

This application note provides steps to configure IAR Eclipse plugin and using Processor Expert (PEx) together with IAR build tool chain. It is expected that Processor Expert Microcontrollers Driver Suite is already installed.

2   Installing the IAR Tool Chain

1. Install the IAR Embedded Workbench for ARM from IAR web site http://www.iar.com/en/Service-Center/Downloads.
2. Visit the IAR web page http://eclipse-update.iar.com.
3. Choose the right version of the ARM Eclipse plugin (for example, 6.50.x/6.60.x) corresponding with the IAR embedded workbench version (for example, V6.60).
4. Install the IAR Eclipse plugin using IAR Eclipse Update Site. Follow the instructions given at link http://eclipse-update.iar.com/arm/6.50 (for example, ARM Eclipse plugin 6.50).

3   Creating PEx Project with IAR Toolchain

To create an IAR project:

1. Select **File > New > C Project**.

2. Enter the project name, for example, `myapp`.

3. Select **Executable > Empty Project** type on the left-side and **IAR Toolchain for ARM – 6.x** on the right-side and click **Next**.

4. Click **Next**, click **Browse** to select a device.

5. Choose **Freescale > K70 > MK70FN1M0xxx12**. Click **Finish**.

6. An empty project (`myapp`) appears in Eclipse **Project Explorer**.

3.1   Opening an Existing IAR Project

To open an existing IAR project:

1.   Select **File > New > Other ... > Enable Processor Expert for Existing C Project**.
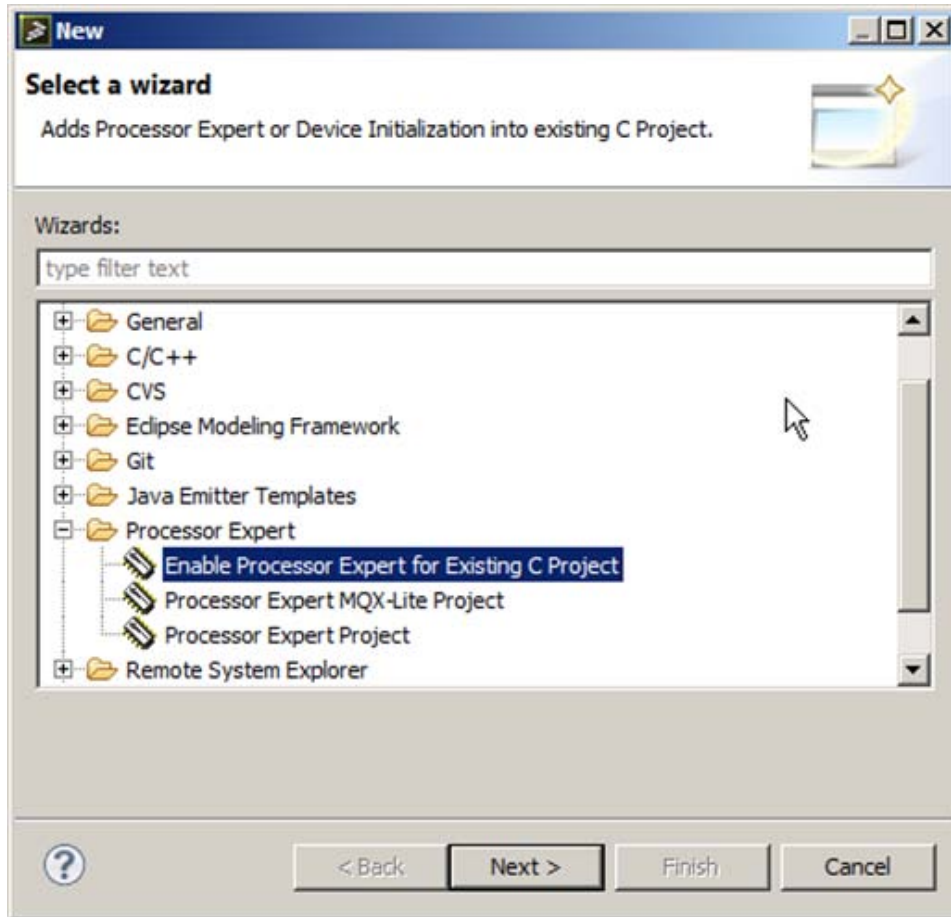
Figure 1 Select a Wizard

2. Click **Next** and select the previously created IAR project (`/myapp`).

3. Click **Next** and select target processor (select the same processor, **MK70FN1M0xxx12**).
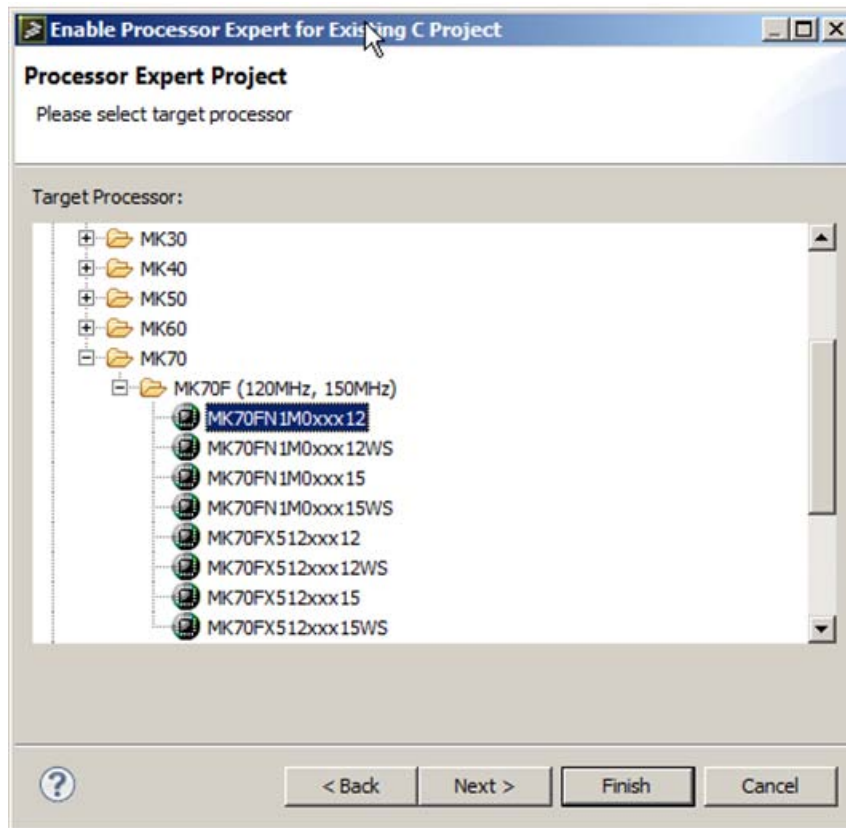
Figure 2 Processor Expert Project

4. Click **Next**. Select **Processor Pin Variants** and **Configurations** that you would like to use in Processor Expert or keep the default values.

5. Click **Next**. Select **IAR ARM C Compiler** and click **Finish**.

6. The project appears in the **Project** view of Processor Expert and the IAR toolchain is configured.

4　Building PEx Project using IAR Toolchain

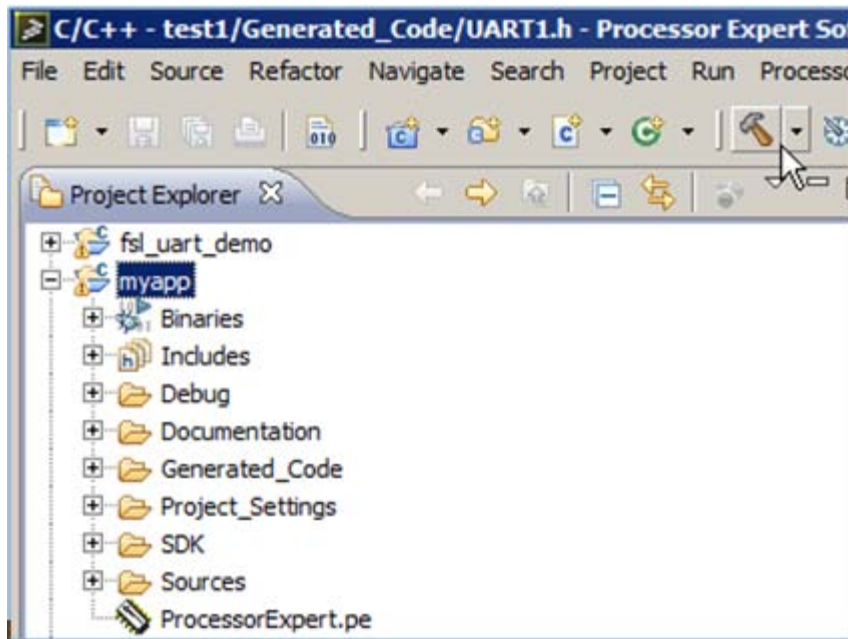Select the project in the **Project Explorer** view and click the **Build** icon on toolbar.

Figure 3 Project Explorer View

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