

Developing MIDlets using Pulsar and Eclipse

This article is an introduction to developing [Java ME](#) applications using the Pulsar package, which includes [Eclipse](#) and [Mobile Tools for Java \(MTJ\)](#).

For instructions on how to develop [MIDlets](#) using EclipseME, please refer to the article [Creating your first MIDlet using EclipseME](#).

Downloading and installing the necessary tools

As with any version of Eclipse, a Java Runtime Environment must be present on the system in order for it to work. It can be downloaded from <http://www.oracle.com/technetwork/java/javase/downloads/index.html> and the [Eclipse website](#) has details about the recommended versions.

Pulsar for Mobile Java Developers must be downloaded from <http://eclipse.org/downloads/>.

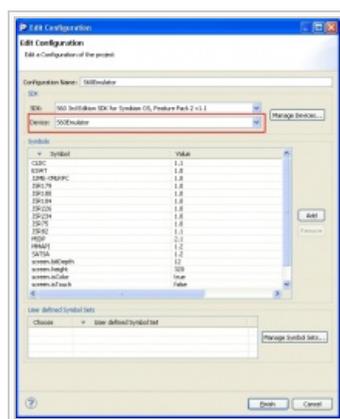
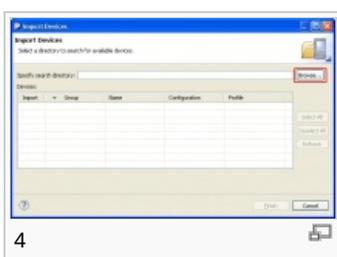
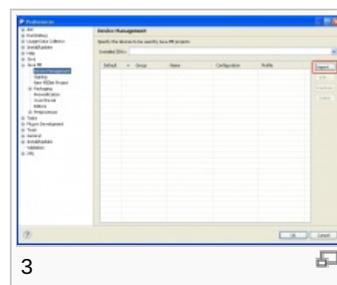
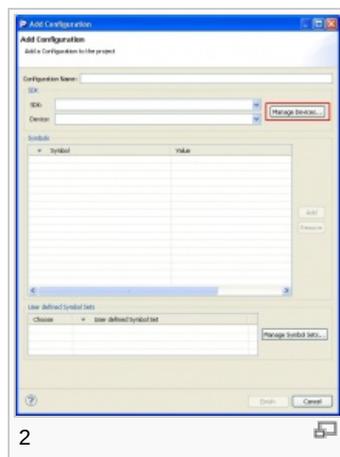
An **SDK** is also needed. We will use the [S60 3rd Edition, Feature Pack 2 v1.1 SDK](#) provided by Nokia Developer. Instructions on how to install it are available in its ZIP package.

Developing the MIDlet

Creating a project

Launch Eclipse. To create a MIDlet, we must first create a project. Go to **File -> New -> MIDlet Project**. Give your project a name and click the **Add...** button to add a configuration. In the window that appears, click the **Manage Devices...** button and, in the next window, the **Import...** button. Then, in the next window, click the **Browse...** button and navigate to the SDK's installation directory (by default C:\S60\devices\S60_3rd_FP2_SDK_v1.1). When done, click **Finish**. In the window called "Add Configuration", select "S60Emulator" in the **Device** field. Click **Finish** until the project creation wizard is closed, and, if asked, confirm switching to the Java ME perspective.

The following images, in order, illustrate the process described above (click to enlarge):



Creating a MIDlet

Go to **File -> New -> Java ME MIDlet**. Give it a name and click **Next>**. Here we are presented with the option to create a MIDlet using predefined templates. We will use the "Hello World MIDlet using eSWT" template. After clicking the **Finish** button, the code contained in the MIDlet file will be displayed.

Testing the MIDlet

Go to **Run -> Run As -> Emulated Java ME MIDlet** (or press **Ctrl+F11**) in order to launch the emulator and see the application in action.

You can find the JAR and JAD to [deploy to your device](#) in `|workspace|\<project name>\.mtj.tmpl\emulation`.

Additional information

The following material may prove to be useful:

- [Presentations on the Eclipse website](#), including future plans and tutorials