

Creating your first MIDlet using EclipseME

Prerequisites

We are assuming that you've installed Java ME development tools according to the article [Installing Java ME development tools for Symbian](#).

Create a new project

1. Start Eclipse, and go to the workbench. (If you are unaware of Eclipse concepts such as the "workbench", now is a good time to use the **Help** function to learn the basics.)
2. Select the menu item **File | New | Project**.
3. Expand node **J2ME** and select **J2ME Midlet Suite**. Press **Next**.
4. Give the project name `HelloWorld`. You can also change the workspace location to be different from the default. Press **Next**.
5. Select **Sun Java(TM) Wireless Toolkit 2.5.2 for CLDC** and **DefaultColorPhone**. (Selecting **S60 3rd Edition FP2 SDK for MIDP** and **S60Device** will cause running the MIDlet to fail, with an dialog displayed, saying that the Jar file could not be initialized because of a caught exception.) Press **Next**.
6. In tab **Source**, check the checkbox **Allow output folders for source folders**, and accept the default.
7. Press **Finish**.

Eclipse's package explorer should show a newly created project `HelloWorld`, which includes folders `src` and `res`, library `J2ME library`, and JAD file `HelloWorld.jad`.

Create a new MIDlet

1. Select the menu item **File | New | Other**.
2. Expand node **J2ME** and select **J2ME Midlet**. Press **Next**.
3. A dialog with the title **J2ME Midlet** appears.
 - The **Source folder** setting item should already be set to `<your workspace location>/src`.
 - For the **Package** setting item, give the name `com.example.helloworld`.
 - For the **Name** setting item, give the name `HelloWorldMidlet`.
 - Press **Finish**.

You should now see a newly created file `HelloWorldMidlet.java` in Eclipse's editor window, with some skeleton code. Eclipse's package explorer should show that it has been created under `HelloWorld/src/com.example.helloworld`.

Write MIDlet code

Replace the code of `HelloWorldMidlet.java` with the code from article [Hello World in Java ME](#).

Debug MIDlet code

1. Set a breakpoint at the start of method `startApp`.
2. In the Package Explorer, right-click on `HelloWorldMidlet.java`, select **Debug As**, and then **Emulated J2ME Midlet**.
3. A dialog comes up asking if you want to switch to the **Debug** perspective. Press **Yes**.
4. The phone emulator window should now be displayed. Eclipse should have switched to the Debug perspective, and in the editor window, the execution of the MIDlet should have stopped at the breakpoint you set.
5. Resume execution. The emulator's screen should now display "**Hello Hello World!**"

Create a deployment package

1. In the Package Explorer, right-click on project `HelloWorld`, and select **J2ME | Create package** or **J2ME | Create**

Obfuscated Package.

2. A directory `HelloWorld/Deployed` should have been created, containing the files `HelloWorld.jad` and `HelloWorld.jar`.

See also

- [Getting started with Java ME](#)
- [Installing Java ME development tools for Symbian](#)

External links

- [Eclipse documentation: Creating a new J2ME MIDlet Project](#)
- [Eclipse documentation: Create a new Midlet](#)