

Installing_Java_ME_development_tools_for_S60

The combination of tools listed here (all free) has been tested by the writer to work for developing applications for S60 using Java ME. For future editors of this article: please make sure that your edits have been tested in practice, to prevent developer frustration.

Contents

- [1 Downloading the tools](#)
- [2 Configuring the tools](#)
 - ◆ [2.1 The Eclipse workspace directory](#)
 - ◆ [2.2 Integrating EclipseME with Eclipse](#)
 - ◆ [2.3 Configuring EclipseME](#)
 - ◆ [2.4 Configuring Eclipse's Java options](#)
 - ◆ [2.5 Installing Java ME Developer's Library](#)
- [3 See also](#)

Downloading the tools

tool	recommended version	download	notes
a Java SE (Standard Edition) Development Kit (JDK)	JDK 6 Update 12 (note: Java* 6.0 is the same as J2* 1.6.0)	here (check for the latest version)	Needed by the following tool. When downloading, select your platform then click on the file name. The installation directory of the SDK is C:\Program Files\Java\jdk1.6.0_12, and that of the JRE is part of the installation is C:\Program Files\Java\jre1.6.0_12. Accept these defaults.
the Sun Java Wireless Toolkit for CLDC	2.5.2	here (search for "Sun Java Wireless Toolkit 2.5.2 for CLDC")	In the "Java (TM) Virtual Machine Location" phase of the installation, latest JDK on your machine is automatically detected. If that is later than JDK 6 Update 12, then browse to the directory C:\Program Files\Java\jdk1.6.0_12. The default installation directory of tool is C:\WTK2.5.2. Note: The Wireless Toolkit has been integrated into Java ME SDK 3.0. While you are welcome to use the Wireless Toolkit, the Sun Developer Network highly recommends the newer feature-rich Java ME SDK 3.0 here .
Nokia SymbianOS/S60 SDK for Java	S60 5th Edition SDK	here	You must be logged in to Forum Nokia in order to download the file. (Creating a Forum Nokia account is quick and free.) Unzip the downloaded file, S60_5th_Edition_SDK_v1_0_en.zip, into a directory, and run the unzipped setup.exe installer program. The default installation directory is C:\S60\devices. Some features require Platform installation.
the Eclipse IDE	3.2.2	here	Unzip the downloaded file, eclipse-SDK-3.2.2-win32.zip, into C:\Program Files\eclipse, or, if you prefer, to another directory (The writer prefers to append the version number to the installation: C:\Program Files\eclipse-3.2.2 in this case.) To run the IDE

Installing Java ME development tools for S60

			execute <code>eclipse.exe</code> , found in the main directory.
the EclipseME plugin for Eclipse	1.7.9	here	This is the last EclipseME version that runs on top of Eclipse v3.2. Save the downloaded file, <code>eclipseme.feature_1.7.9_site.zip</code> , somewhere. Instructions for integrating the plugin with Eclipse are given below.
Java ME Developer's Library	3.1	here (search for "Java ME Developer's Library v3.1 (Eclipse plug-in)")	Download the file <code>Java_ME_Developers_Library_v3_1_eclipse_plugin.</code> Installation instructions below. This documentation is not absolutely necessary for development, but it is very useful. After you've installed it, it is available to you from Eclipse's Help function.

Note that in addition to Eclipse, Nokia also supports the [NetBeans](#) IDE (plus its [Mobility Pack](#)) for S60/Java ME development. See [here](#) for more details.

Configuring the tools

After downloading all the tools above, perform the following.

The Eclipse workspace directory

1. Create a directory to be used as your Eclipse workspace directory, such as `C:\some\path\eclipse_workspace\`. (You can skip over this and accept the default workspace directory in the next step.)
2. Start Eclipse. When asked for a workspace directory to use, give the directory you created, or accept the default. (The workspace can later be switched by selecting the menu item **File | Switch Workspace**.) Eclipse will now restart.

Integrating EclipseME with Eclipse

1. Select the menu item **Help | Software Updates | Find and Install**.
2. Select the radio button: **Search for new features to install** and press **Next**.
3. Press the button **New Archived Site**. In the file selection dialog that appears, select the EclipseME installation file you downloaded, `eclipseme.feature_1.7.7_site.zip`.
4. Back in the main dialog, make sure the `eclipseme.feature_1.7.7_site.zip` checkbox is the only one selected, and press **Finish**.
5. Select the `eclipseme.feature_1.7.7_site.zip` checkbox and press **Next**.
6. Select the **I accept the terms in the license agreement** radio button, and press **Next**.
7. Make sure **installation directory** is the directory you unzipped Eclipse into (`C:\Program Files\eclipse`, or wherever you installed it), and press **Finish**.
8. A JAR verification warning message is given. Don't worry, be happy. Press **Install**.
9. Press **Yes** to restart Eclipse. Select the workspace again.

Configuring EclipseME

1. Select the menu item **Window | Preferences**.
2. Expand node **J2ME** and select **Device Management**.
3. In the settings section of the dialog, press **Import**.
4. In the new dialog, browse for the directory
C:\S60\devices\S60_3rd_MIDP_SDK_FP2_Beta. Click **Refresh**.
5. Make sure the S60Emulator and S60Device devices' checkboxes are both checked. Press **Finish**.
6. Press **Import** again.
7. In the new dialog, browse for the directory C:\WTK2.5.2 (or wherever you installed the Wireless Toolkit). Click **Refresh**.
8. Make sure all the four devices' checkboxes are checked. Press **Finish**.
9. Back in the main dialog, select DefaultColorPhone as the default device. (Selecting the S60Emulator choice will cause running a MIDlet to fail.)
10. Back in the main dialog, press **OK**.

Configuring Eclipse's Java options

1. In Eclipse, select the menu item **Window | Preferences**.
2. Expand node **Java | Build Path**.
3. For item **Source and output folder**, select the radio button **Folders**, and keep the defaults (src and bin).
4. Expand node **Java | Debug**.
5. Uncheck **Suspend execution on uncaught exceptions**.
6. Uncheck **Suspend execution on compilation errors**.
7. Set **Debugger timeout (ms)** to 15000.
8. Press **OK**.

Installing Java ME Developer's Library

1. Close Eclipse.
2. Unzip the file Java_ME_Developers_Library_v3_1_eclipse_plugin.zip you downloaded.
3. Copy the unzipped file Java_Developers_Library_3.1.0.jar into your Eclipse installation directory's plugins folder.
4. Start Eclipse again. The Java ME Developer's Library should now appear when you select menu item **Help | Help Contents**, as the node Java™ ME Developer's Library 3.1.

See also

- [Getting started with Java ME](#)
- [Creating your first MIDlet using EclipseME](#)