

Example applications run and build instructions.

IMPORTANT: These instructions are only for the example applications that use either the OCX or .NET control. You can find instructions for the other example applications in the other instruction guide.

This guide will help you to successfully run the example applications that have been included in the MySQLMobile package. It also provides you with information on how to manually compile/build the example applications. You can use this information when you start incorporating MySQLMobile into your own applications.

Preface

The MySQLMobile DLL has been compiled for ARM processors.

This means that you can not use the traditional Windows Mobile X86 emulator to develop, but there are two alternatives:

1. A real device
2. The Microsoft Device Emulator

This emulator comes with Visual Studio.NET but it's also available for free on Microsoft's website. It works in combination with so-called "emulator images" that are available for free also. This emulator will emulate the ARM processor so you're able to develop with MySQLMobile.

→ To run the test applications, you need to follow steps 1, 3 and 4. Step 2 can be skipped.

→ To compile and build the example applications or your own applications you need to follow steps 1 through 4.

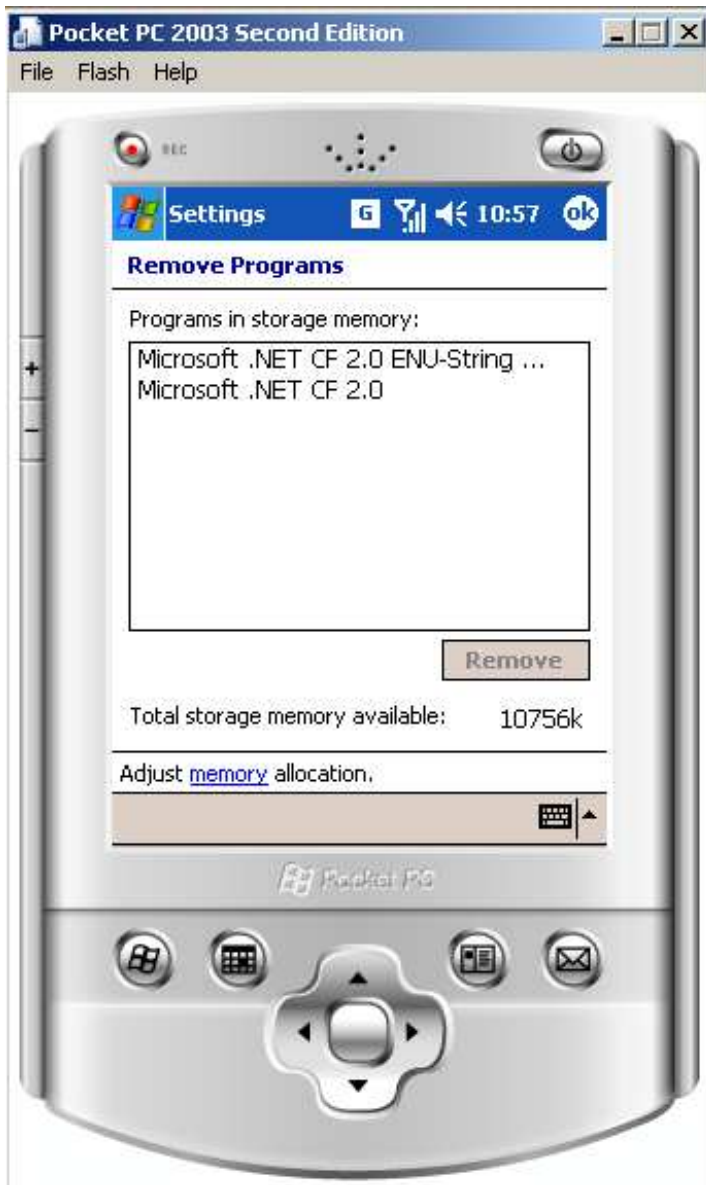
Step 1 - .NET Compact Framework (.NET CF) 2.0

You can skip this step if you're not developing with .NET

If you are developing with .NET but for another .NET CF (for example 1.0 or 1.1), you can not use the control. You need to use the DLL directly. For an example, see \Examples\DLL

Make sure the .NET Compact Framework 2.0 is installed on the device/emulator, before you run the test application. Visual Studio automatically installs this for you when you deploy the test application. Deploying the test application will also run it but you should not run it right now so close it for now.

In the screenshot below you see that the .NET compact framework has been installed properly.



Step 2 – Register the OCX/.NET control

OCX ActiveX library (**not** for .NET developers!)

1. Register the WIN32 ActiveX control on your Desktop
 - Start a command prompt
 - Go to the win32 directory
 - type "regsvr32 MySQLMobileActiveX.ocx"

The control is now registered and you should be able to add it to your (eVB) toolbox

2. Register the DEVICE ActiveX control on your Device
 - Copy the ocx to the device, for example to \Windows
 - Copy regsvr_arm.exe to your device
 - Run regsvr_arm.exe and register the ocx
3. Use the example application as a reference on how to make your application work with the ActiveX control. The example is located at \Examples\ActiveX\VB (using OCX control)

.NET control

Follow this step when you're going to use the .NET control library in a new project.

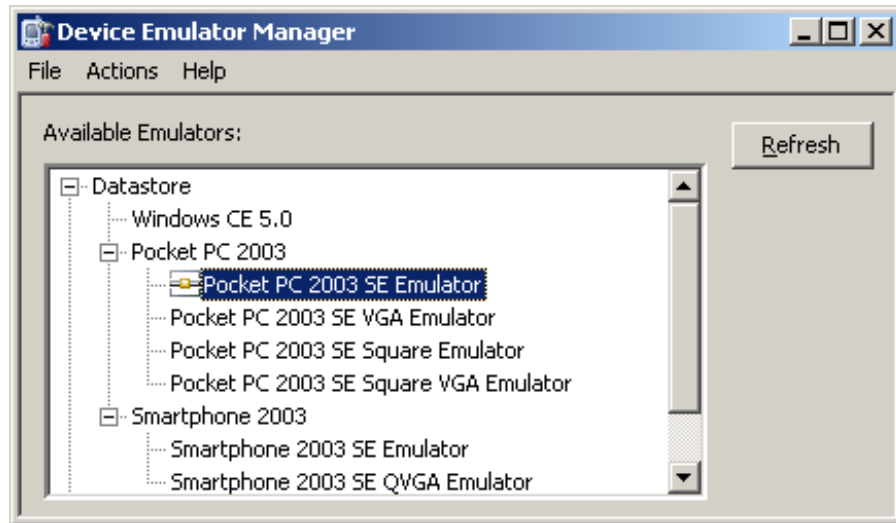
1. Create the project.
2. Add MySQLMobile.NET.dll as a reference.
3. Write your application
4. After you are done, build the application.
5. When testing your application on the device/emulator, make sure that both MySQLMobile.dll and MySQLMobileActiveX.dll are located in the same directory as your application, otherwise your application will not work properly.

Step 3 – Network connection

When you use a real device to run your application, you need to make sure there is a network connection, either through ActiveSync (in cradled mode), or through another TCP/IP connection, like for example WLAN, GPRS, or through Bluetooth.

When you use the device emulator to run your application, you should create an ActiveSync connection to emulate the network connection. This can be done with the Device Emulator Manager, found in the “Tools” menu in Visual Studio.NET 2005, but can also be found in the Emulator Program Group in the Start menu in case you have manually installed the emulator.

You can use the manager to start the emulator (“Connect” option) if it isn't already started, and after that you should choose “Cradle” from the “Actions” menu.



You'll then see that the "cradled" icon is shown in front of the emulator, as can be seen above.

If ActiveSync does not automatically connect now, you have to do that manually. Go to ActiveSync and choose "Get Connected" or "Connection Settings → Connect" (depending on your ActiveSync version) from the "File" menu. The ActiveSync connection will then be made. A "guest" partnership suffices for our purpose.

Step 4 – Running the application

Before you run the test application, you need to make sure that both MySQLMobile.dll and MySQLMobileActiveX.dll are on the device and in the same directory as the test application. The easiest way to do this is by pressing the "Explore" button in ActiveSync and copy it manually to the location where Visual Studio puts the test application when you deploy it. For the VB.NET example application that comes with MySQLMobile this is \Program Files\TestAppVB by default.

You can now run the test application. An example is shown below:

Connect

Show Results

Select DB

Disconnect

Execute Query

Exit

Connect() successful
SelectDB() successful
ExecuteQuery() successful
fields: [ID1] [ID] [PUDate] [Transfer] [Q
row: [1] [2] [2006-05-31] [0] [8] [32 sel
row: [2] [2] [2006-05-31] [0] [1] [170 S
row: [3] [4] [2006-05-31] [0] [2] [170 S
row: [4] [4] [2006-05-31] [0] [1] [n64 s
row: [5] [1] [2006-05-31] [0] [5] [n64 s
row: [6] [3] [2006-05-31] [0] [1] [170 S
row: [7] [3] [2006-05-31] [0] [1] [32 sel
row: [8] [3] [2006-05-31] [0] [1] [n64 s
row: [9] [2] [2006-05-31] [0] [8] [32 sel

