



Debugging Third Party Software Applications for Windows Mobile 5.0 using Visual Studio 2005

A step-by-step guide compiled by Seth Fogie⁽¹⁾. Presented to the Windows Mobile development community by Airscanner[®] Corporation
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Create a blank VS2005 C++ Console Application

1. File -> New -> Project
2. Select Visual C++ -> Smart Device -> Win32 Smart Device Project
3. Name the solution and hit OK
4. Click Next on wizard
5. Move the Installed Windows Mobile 5.0 Pocket PC SDK (it should be pre installed) to the right side of the window and click Next.
6. Select 'Console Application' and hit Finish.

Change Properties on Project

1. Select <Project Name> in Solution Explorer and then select the Project -> Properties menu.
2. Click the Configuration Manager button in the top right and switch to Windows Mobile 5.0 SDK
3. Ensure the platform is also WM2005 and hit Close.
4. Under Configuration Properties/Deployment change Deployment Device to 'Windows Mobile 5.0 Pocket PC Device.
5. Hit Apply and OK.

Build Empty Project and ensure Debugger works.

1. Ensure the Pocket PC is synced to computer
2. Hit F11, after a short time you should have a prompt on the PDA to allow the program to execute (allow it).
3. You will then be dropped into a debugging mode in Visual Studio 2005.
4. Hit F5 to complete the execution.

Adjust Project Properties for target application deployment.

1. Select <Project Name> in Solution Explorer and then select the Project -> Properties menu.
2. Under Configuration Properties/Deployment, change Remote Directory to location of target executable on PDA “\” (for root directory on PDA)
3. Under Configuration Properties/Debugging, change Remote Executable to same location as the deployment directory.

Setup VS2005 for debugging of target application

1. Copy target exe into the project directory/debug on PC. Remove/rename original .exe file from directory and rename target application to that original exe name.
2. Remove/rename original project dbg files from same folder.
3. Hit F11 in VS2005 and DO NOT BUILD.
4. If all the settings are right, VS 2005 should deploy the application to the configured folder on the PDA and then initialize the debugger to connect to that application and execute it. You will be rewarded with a disassembly view of the target application in VS2005. Set breakpoints, and F11 or F5 through the program.

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