



Building PathMATE Applications with Microsoft Visual Studio Express®

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PathMATE Technical Notes

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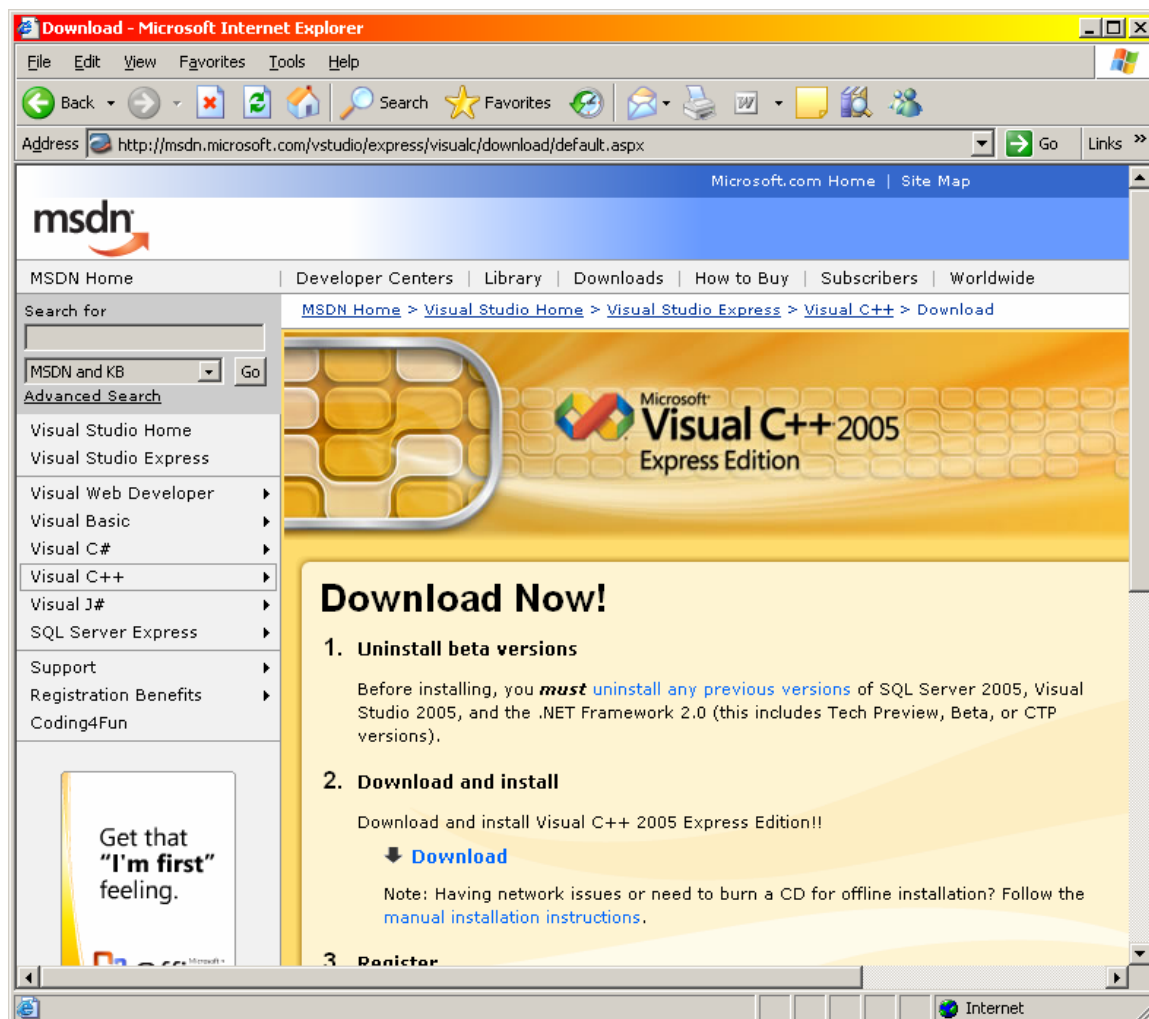
1. Introduction

This technical note outlines the steps needed to generate project files suitable for Microsoft Visual Studio 2005 (version 8) Express edition®. While this version of the Visual Studio product is attractive because it is available for free download, it does require some additional steps to set up the appropriate Microsoft Platform SDK. In addition special PathMATE PIM markings are needed.

2. Installing Microsoft Visual Studio 2005

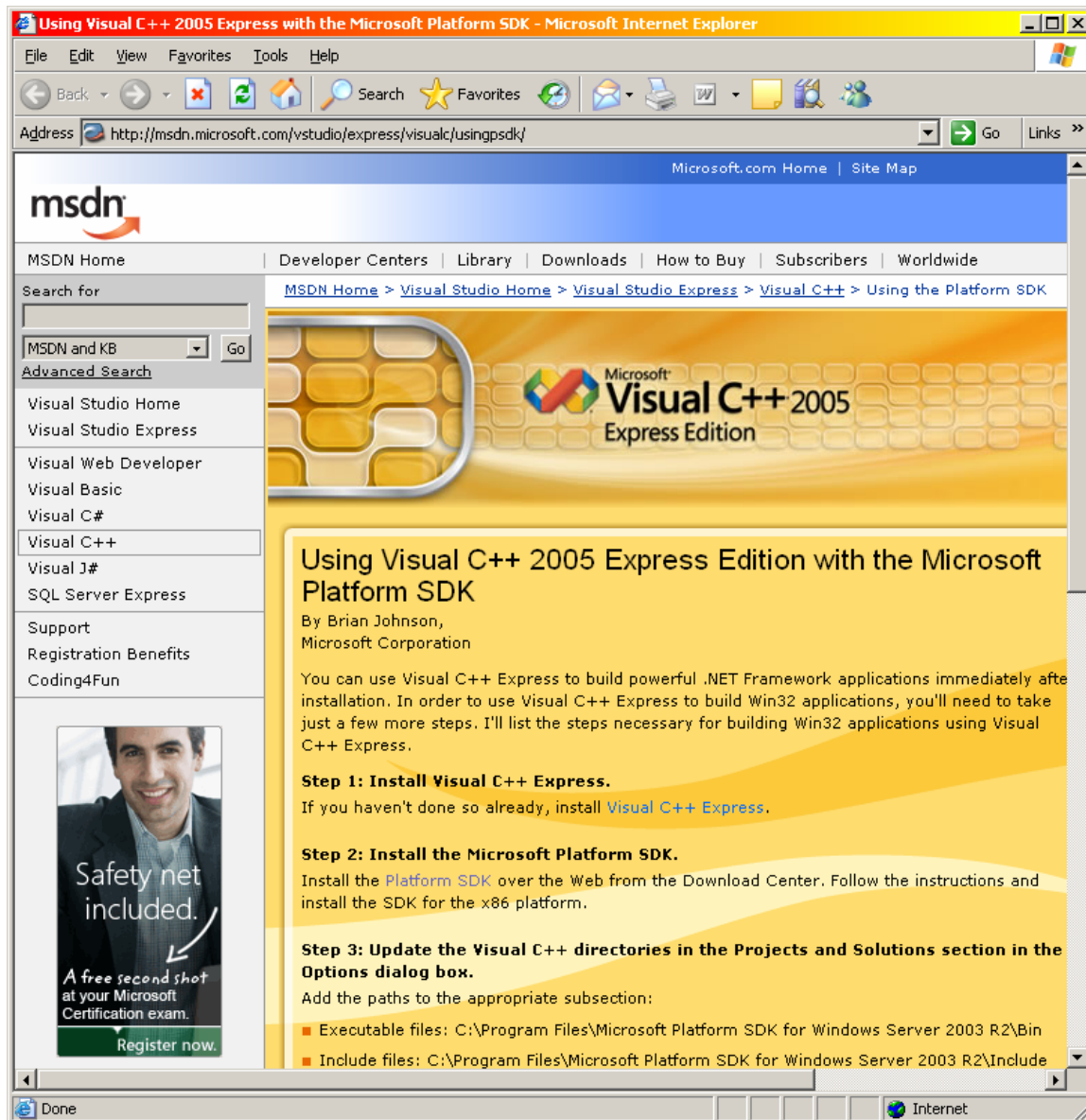
Download Microsoft Visual Studio 2005 Express Edition (VS Express) from the Microsoft site:

<http://msdn.microsoft.com/vstudio/express/visualc/download/default.aspx>



Then install the Microsoft Platform SDK, taking particular care to follow the manual steps listed on this page involved in configuring VS Express:

<http://msdn.microsoft.com/vstudio/express/visualc/usingpsdk>



Be sure to remember/record where the SDK is installed as this directory will be used in PathMATE PIM markings specified below.

3. Project File Generation Markings

The key to getting things to build properly in VS Express is to identify the include and library paths in the SDK, and specify required compile symbols. The following System markings (in properties.txt) are used:

Defines – define `_CRT_SECURE_NO_DEPRECATED` and `_AFX_NOFORCE_LIBS`.

AdditionalIncludes – specify the SDK include directory, `c:\Program Files\Microsoft Platform SDK\Include` by default.

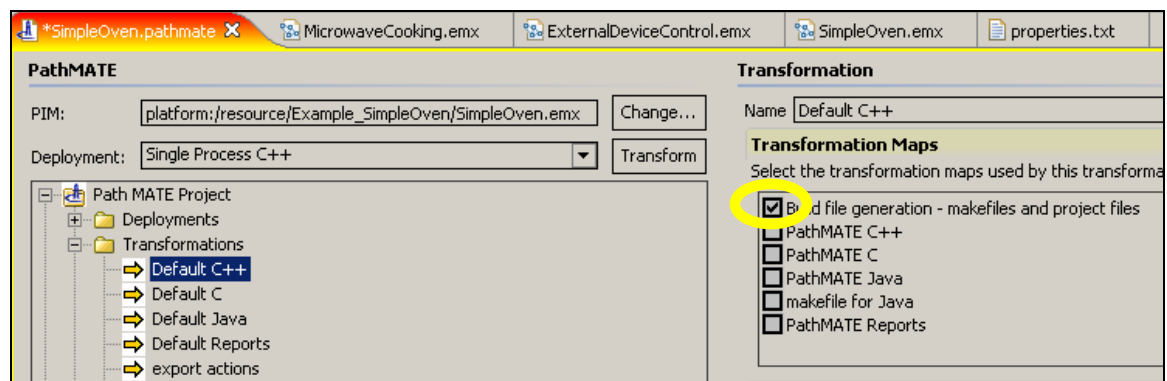
AdditionalLibraryPaths - specify the SDK library directory, `c:\Program Files\Microsoft Platform SDK\Lib` by default.

Here is a segment of the `properties.txt` for the PathMATE example system *SimpleOven*:

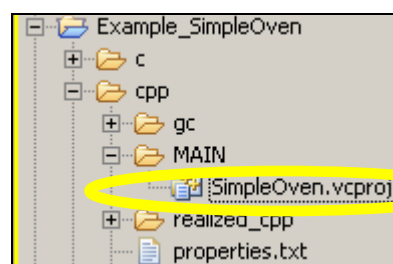
```
System,SimpleOven,Defines,_CRT_SECURE_NO_DEPRECATED;_AFX_NOFORCE_LIBS;PATH_USE_REALIZED_T
YPES;PATH_NO_INPUT_DRIVER
System,SimpleOven,AdditionalIncludes,c:\Program Files\Microsoft Platform SDK\Include
System,SimpleOven,AdditionalLibraryPaths,c:\Program Files\Microsoft Platform SDK\Lib
```

4. Building

To generate make/project files, in PathMATE under your C++ code generation Transformation select “Build file generation” and transform:



The default output is a Visual Studio version 7 project file. For the PathMATE example system *SimpleOven* this is:



Open the `.vcproj` file, and VS Express will open with a conversion dialog. After converting the project, you can build. Good luck!