How to build the VisualStudio 2008 environment on Windows Embedded Compact 7

Applies to:

Platform	*OS version*	*WinPAC/ViewPAC utility version*
VP-x201-CE7	*All versions*	*All versions*
VP-x231-CE7	*All versions*	*All versions*
WP-5231-CE7	*All versions*	*All versions*
WP-9x21-CE7	*All versions*	*All versions*

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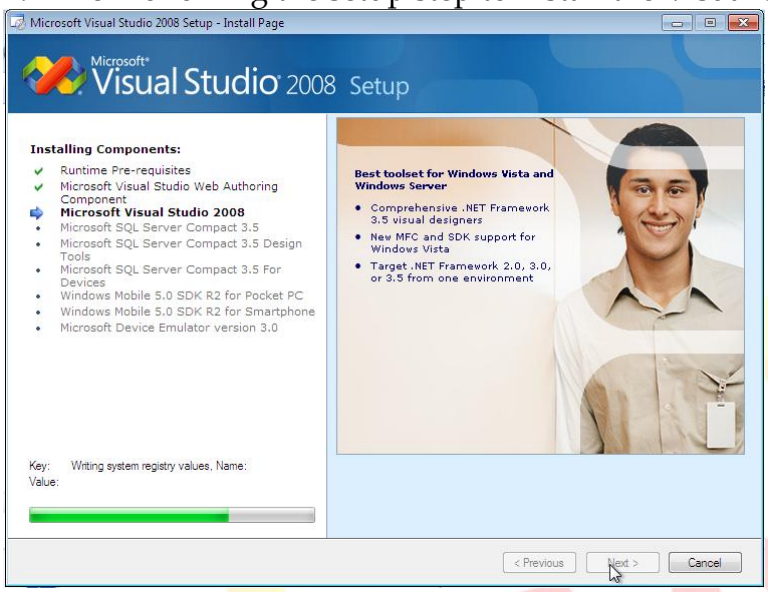
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Installation steps：

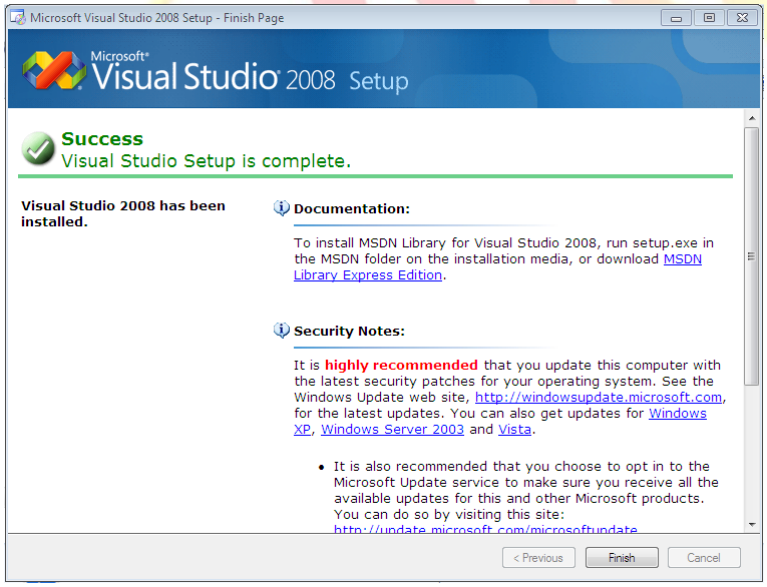
1. Visual Studio 2008 Professional:

   Download VS2008 Pro if you have an MSDN subscription:
   https://msdn.microsoft.com/en-us/subscriptions/securedownloads/hh442898
   Otherwise you need to purchase it by your regular distributor.

   1.1 Then following the setup step to install the Visual Studio 2008.



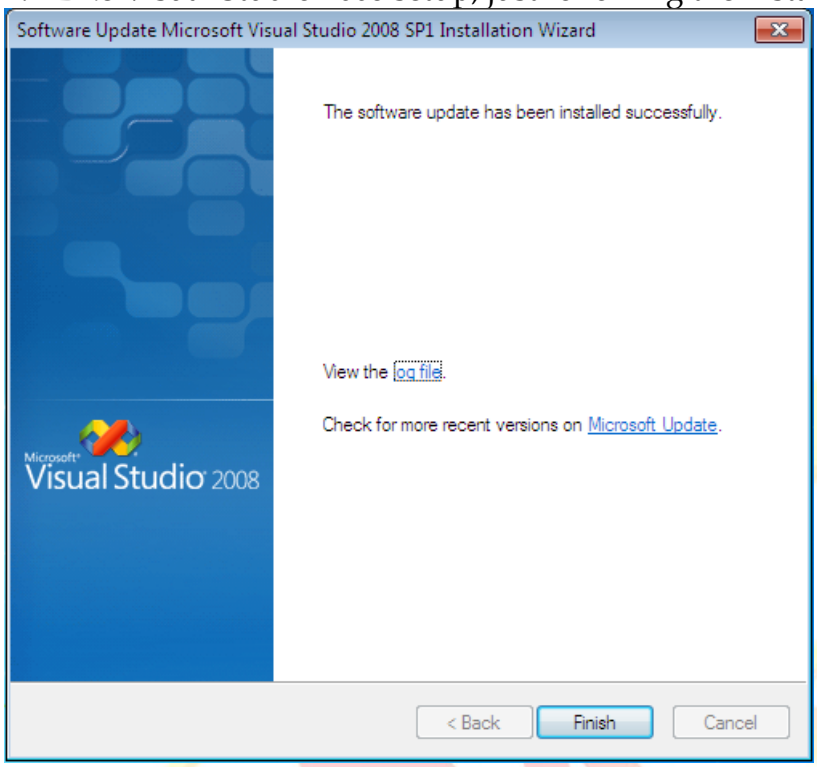
   1.2 After installation, it will show like this. Press “Finish” and going to next step.



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2. Visual Studio 2008 Service Pack 1:
   Download it from
   http://www.microsoft.com/en-us/download/details.aspx?id=10986

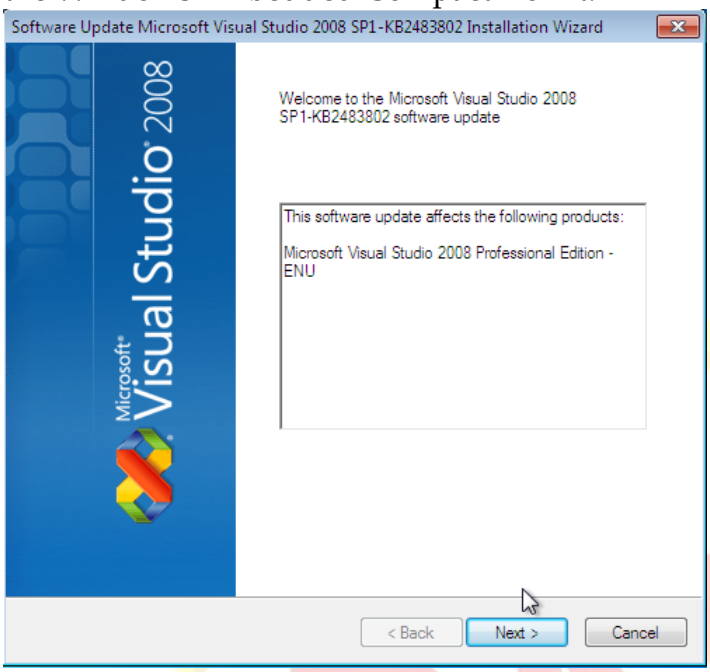
   2.1 Like Visual Studio 2008 setup, just following the installation step to the Finish.



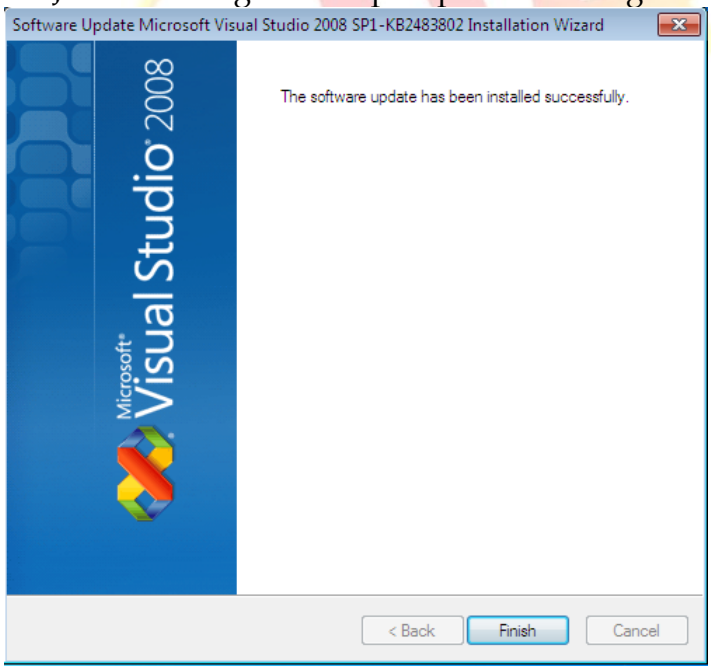
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3. Visual Studio 2008 update for Windows Embedded Compact 7:
   VS90SP1-KB2483802-x86.exe
   or download it from
   http://www.microsoft.com/en-us/download/confirmation.aspx?id=11935

   3.1 After installation Visual Studio 2008 and update the SP1 packet, then update the Windows Embedded Compact 7 on it.



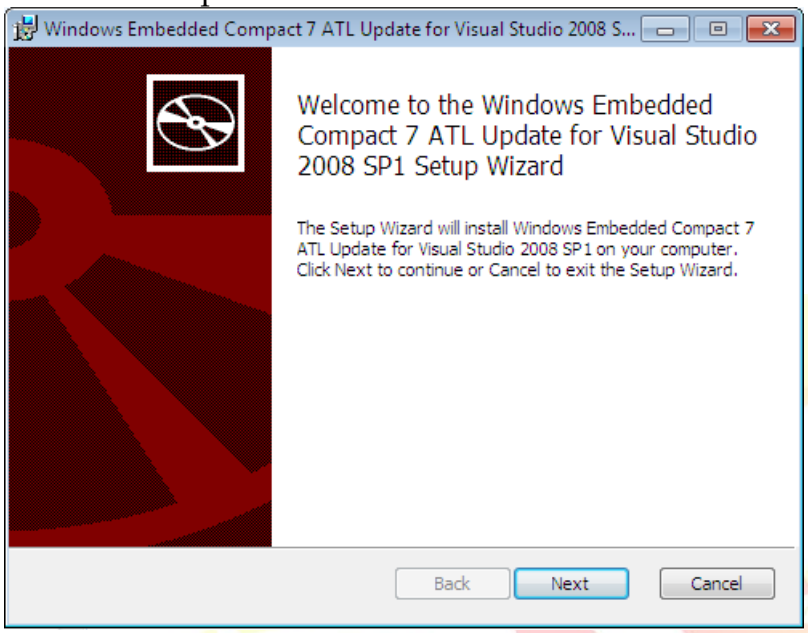
   3.2 Just following the setup step then waiting the wizard finished.



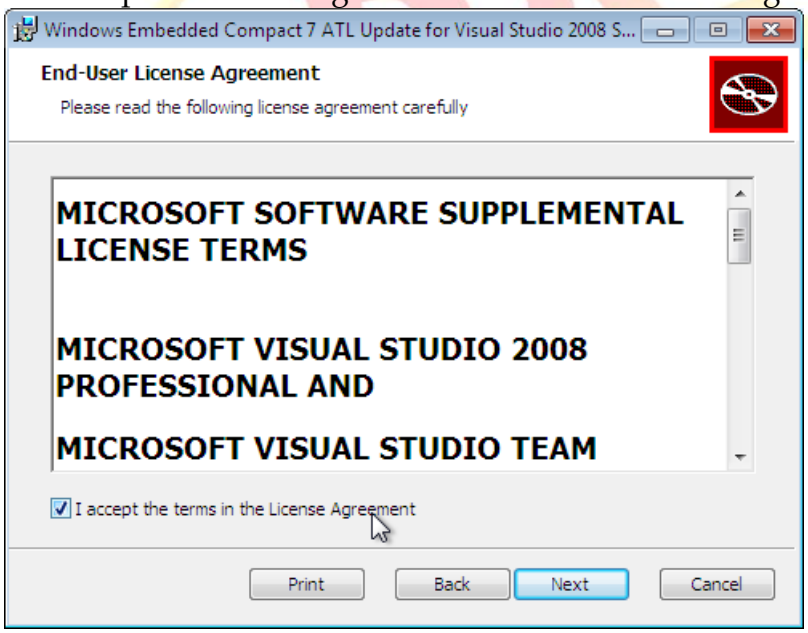
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4. Windows Embedded Compact 7 ATL Update for Visual Studio 2008 SP1:
   VisualStudioDeviceWindowsEmbeddedCompact7.msi
   or download it from
   http://support.microsoft.com/kb/2468183/en-us

4.1 Now we update the ATL.

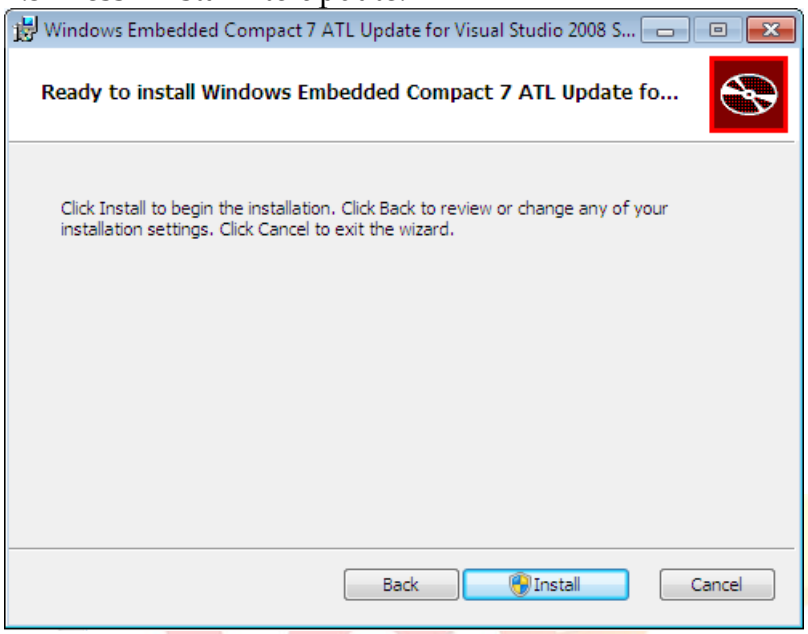


4.2 Accept the license agreement and Press "Next" to go on.

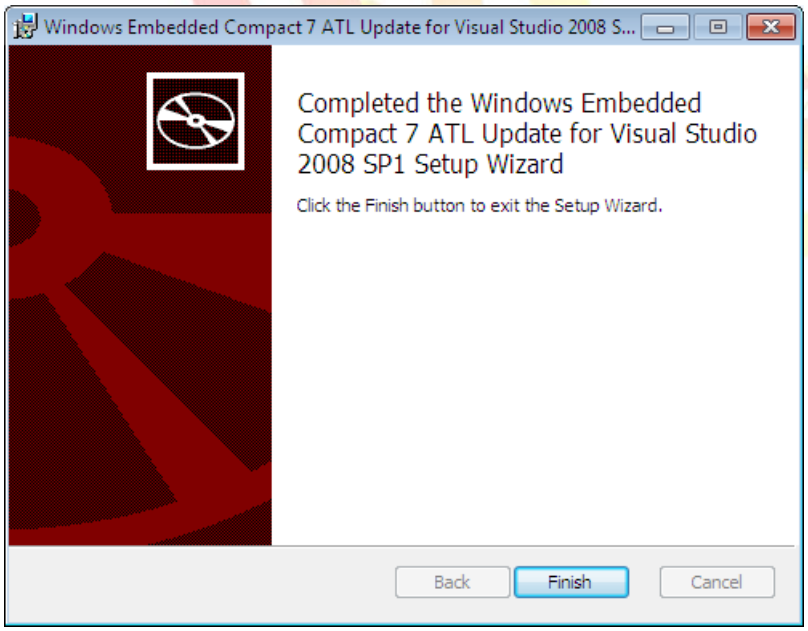


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4.3 Press “Install” to update.



4.4 Finish.

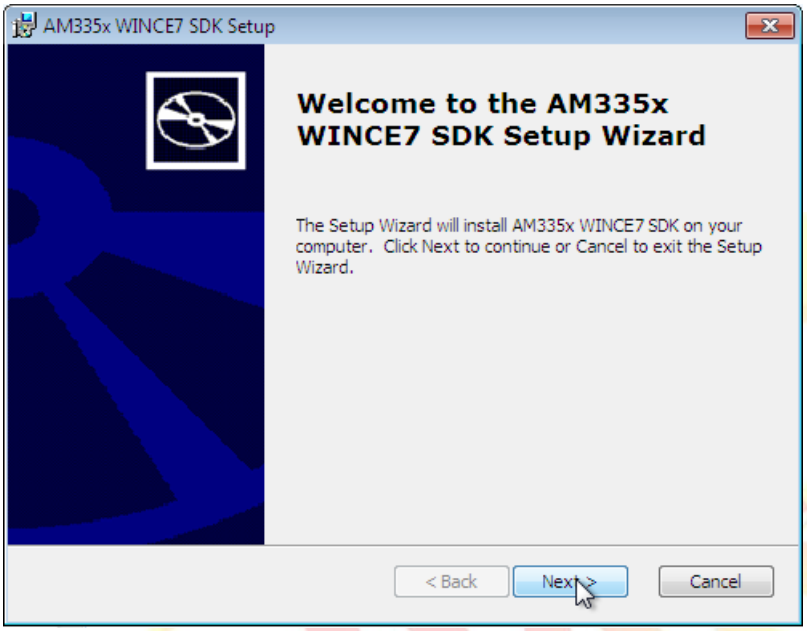


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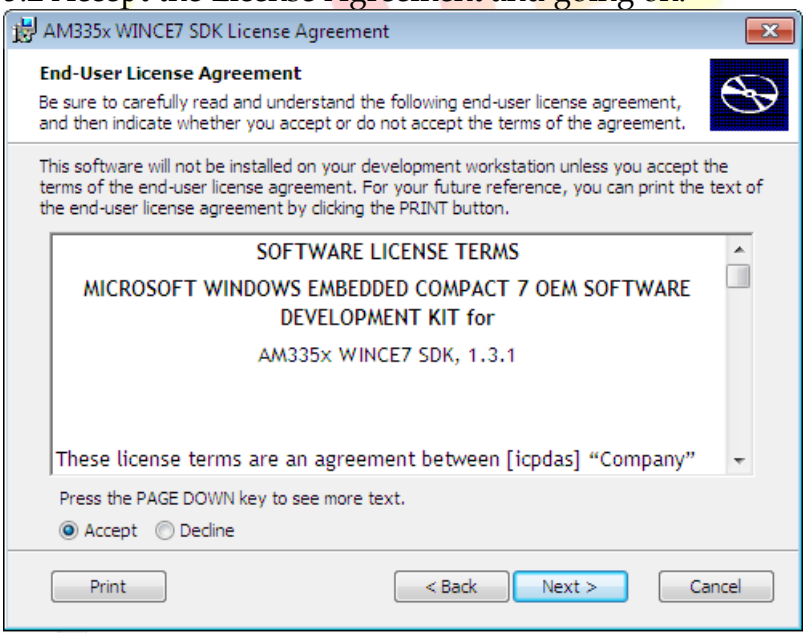
5. Install WinPAC/ViewPAC platfrom SDK:
   The latest version of the installation package from FTP site listed as following FTP:
   http://ftp.icpdas.com/pub/cd/winpac_am335x/wp-5231/sdk/platformsdk/

   File name: AM335x_WINCE7_SDK_yyyymmdd.msi
   yyyymmdd : platform sdk released date

   5.1 Press "Next >"

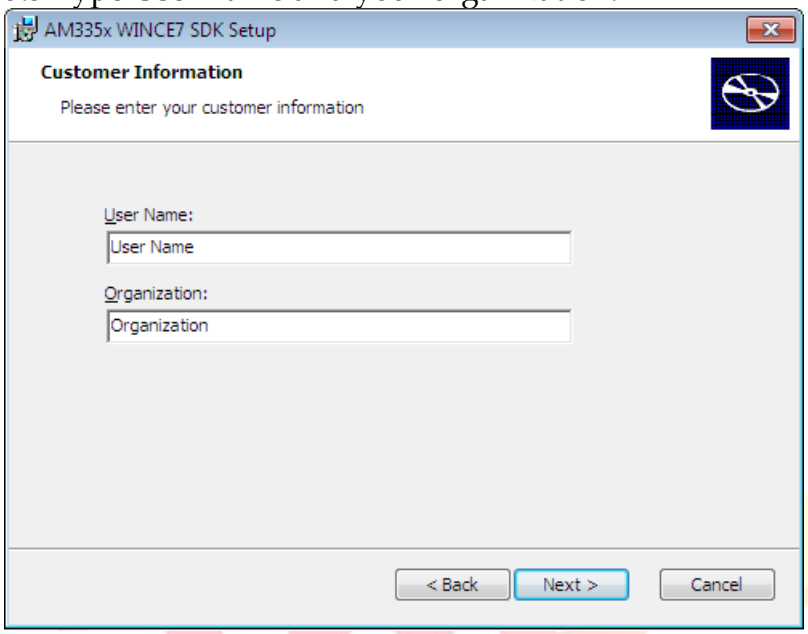


   5.2 Accept the License Agreement and going on.

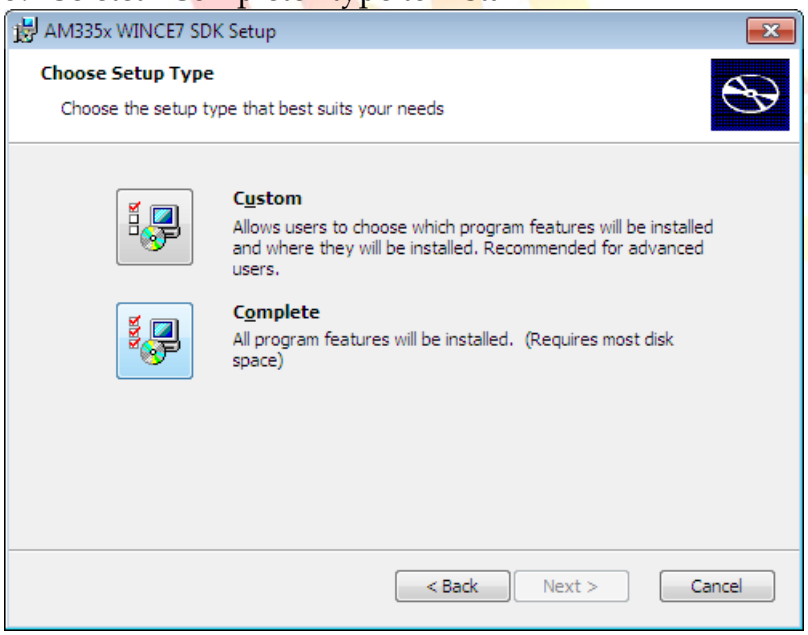


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5.3 Type User name and your organization.

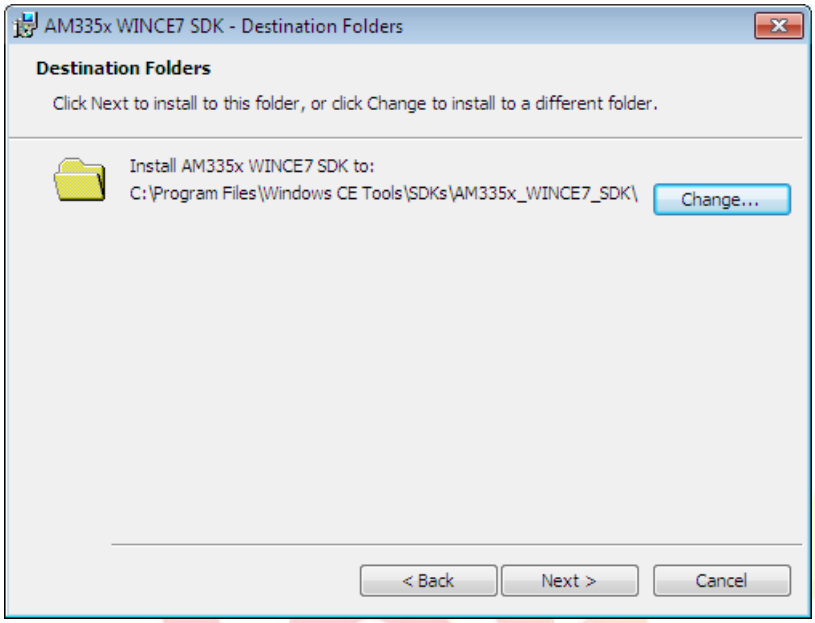


5.4 Seletct “Complete” type to install

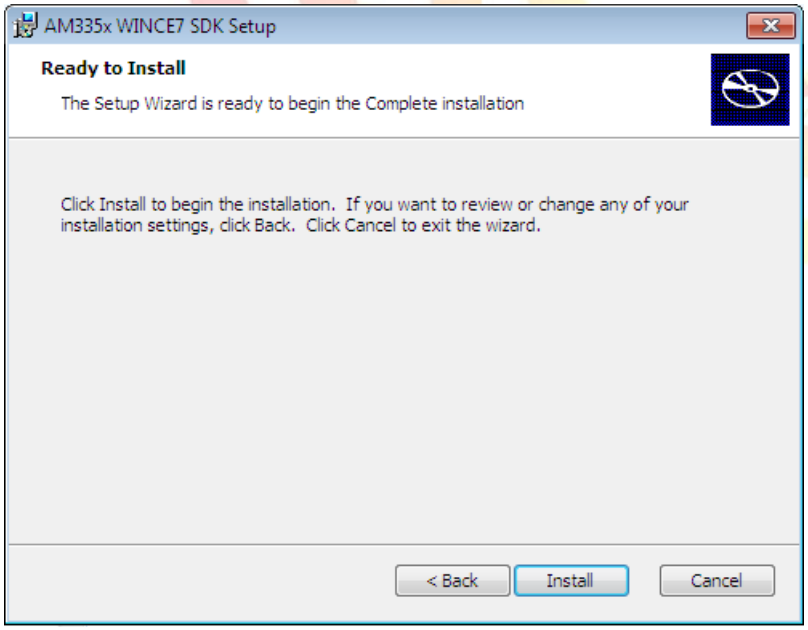


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5.5 You can choise where to locate the SDK.

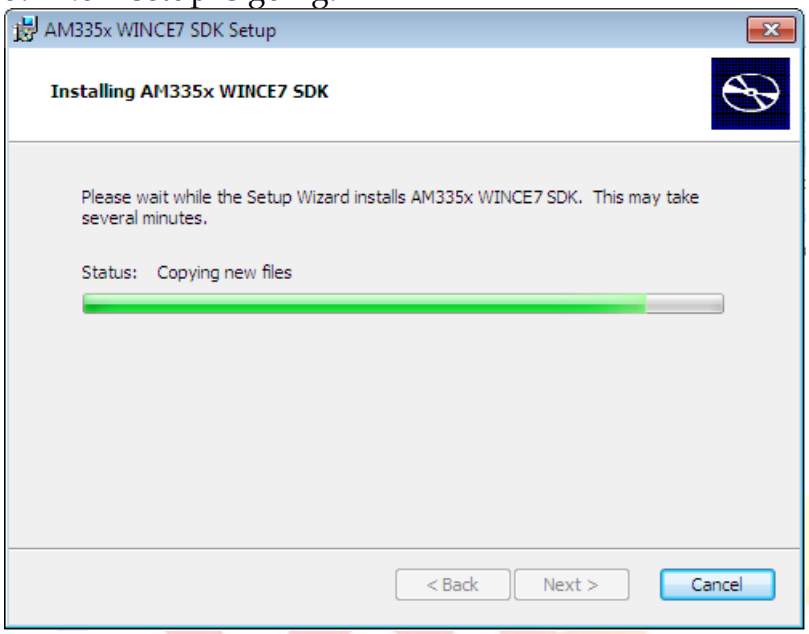


5.6 Then start to install.

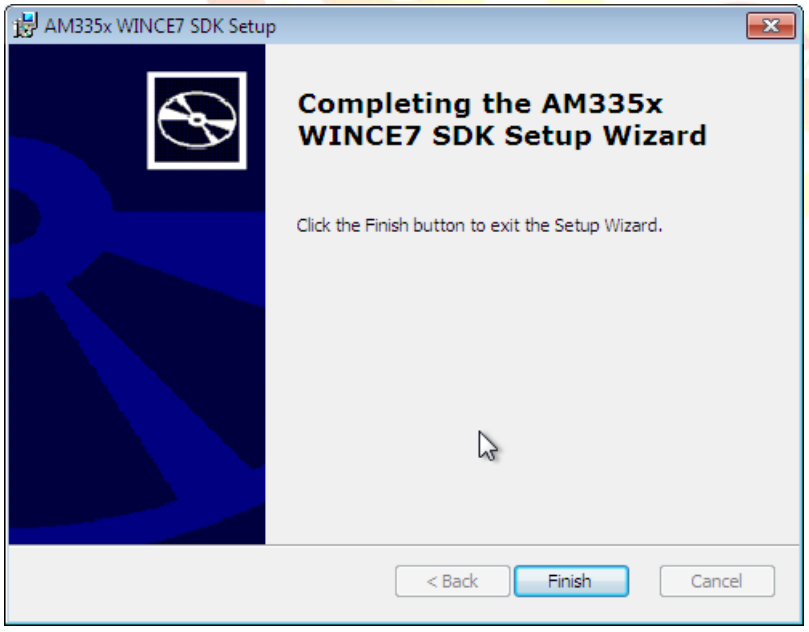


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5.7 Now setup is going.



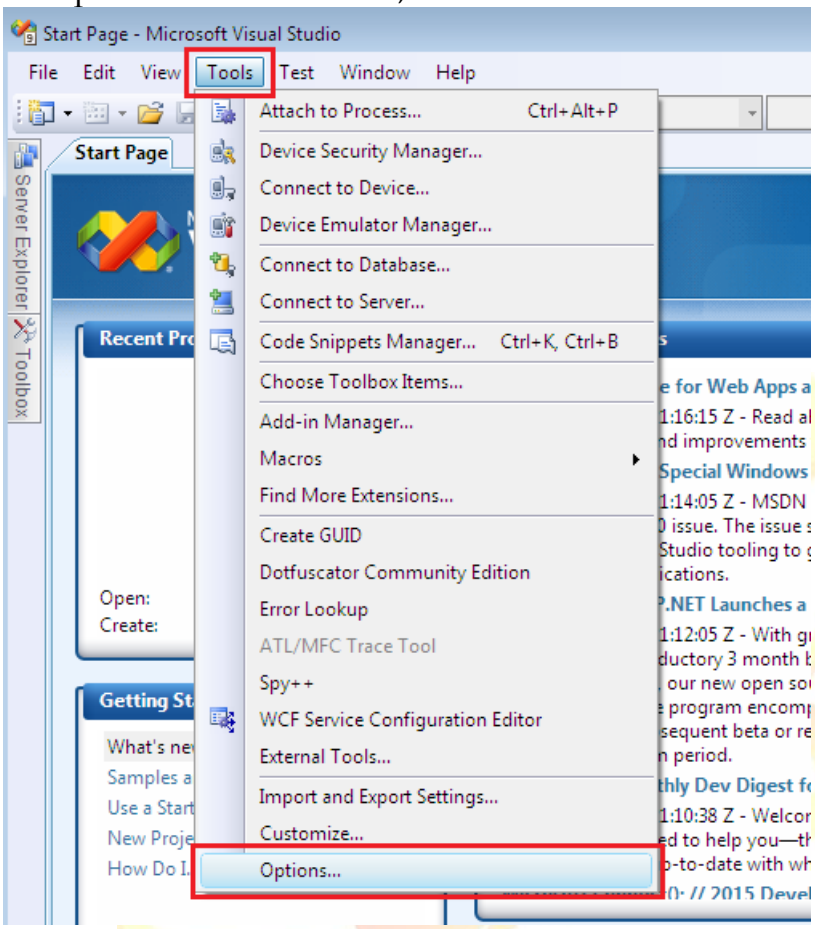
5.9 Finish.



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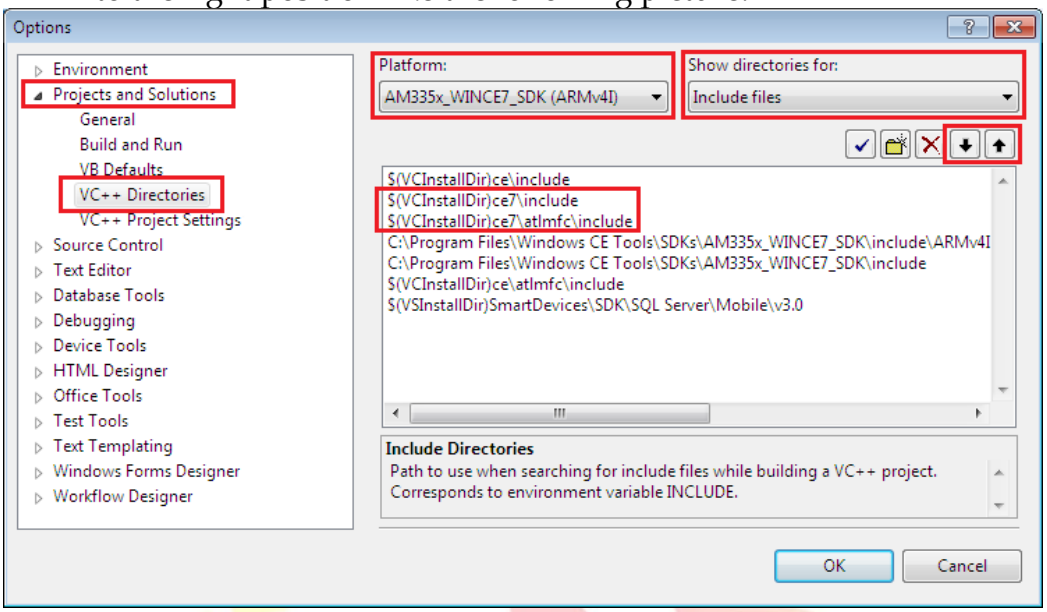
6.Afrer installation Visual Studio 2008、SP1、Windows Embedded Compact 7 update、ATL Update and WinPAC/ViewPAC platfrom SDK, now need to set it.

6.1 Open Visual Studio 2008, select the "Tools" at the menu bar, click "Options…".



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6.2 At the left form, click ”Projects and Solutions” and find “VC++ Directories”. At the right side, choice “AM335x_WINCE7_SDK(ARMv4I)” under “Platform:”,and choice “Include files” under “Show directories for:”. Then using the  button to set the “$(VCInstallDir)ce7\include” and “$(VCInstallDir)ce7\atlmfc\include” to the right position like the following picture.



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Build first program

Now the Visual Studio 2008 is going to work, let's see how to build your first program at VC++.

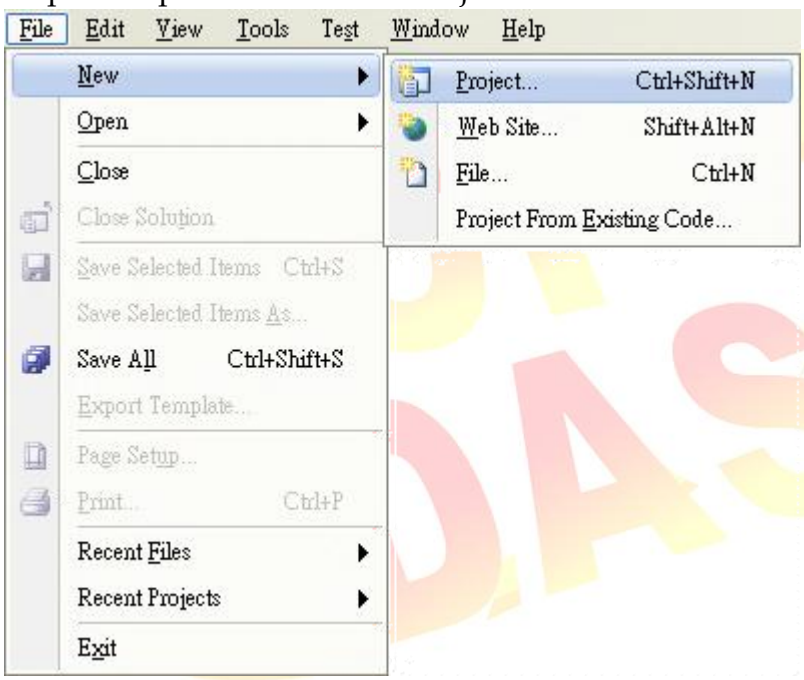
1. Creat a project :

Step 1：Execution Visual Studio 2008

Visual Studio 2008



Step 2：Tap File → NEW → Project



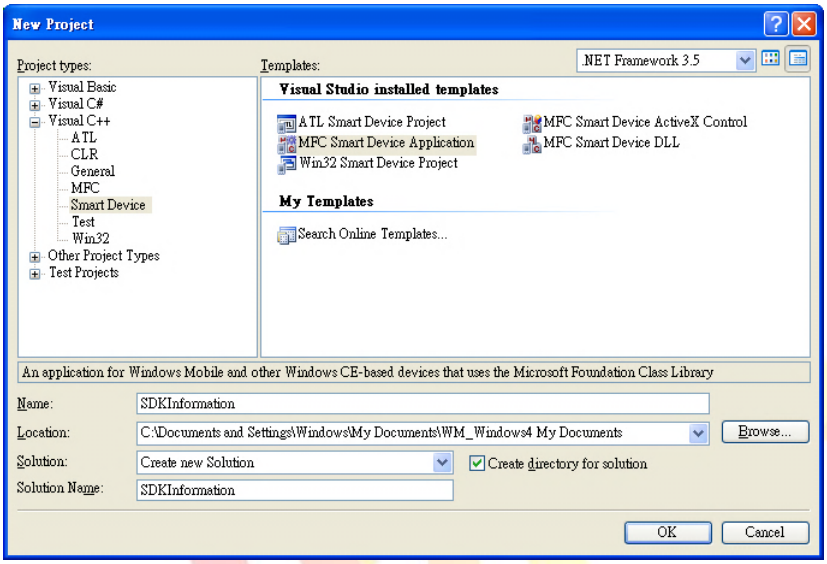
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Step 3：Select “Visual C++” under “Project types”, then choice “Smart Device”.

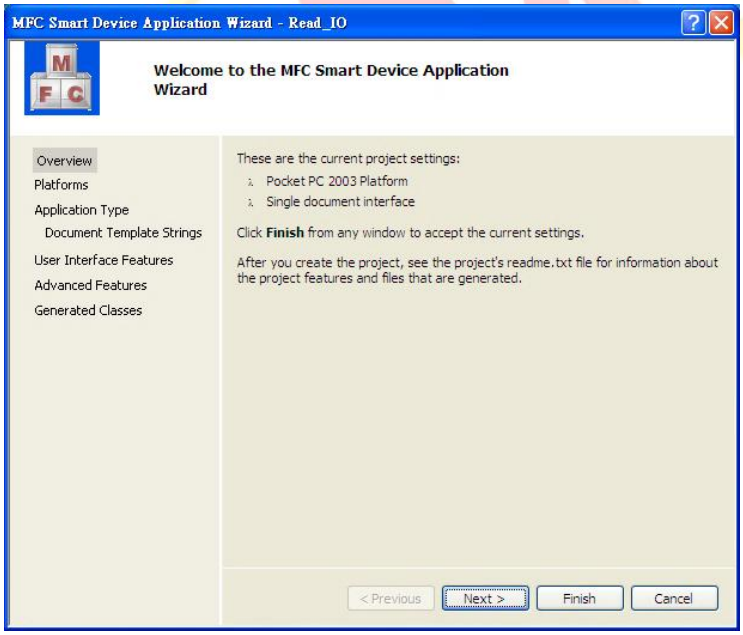
Step 4：Tap “MFC Smart Device Application” at “Templates”.

Step 5：Enter your project name then click “OK”.

We type “SDKInformation” here，and you can select the location what you like.

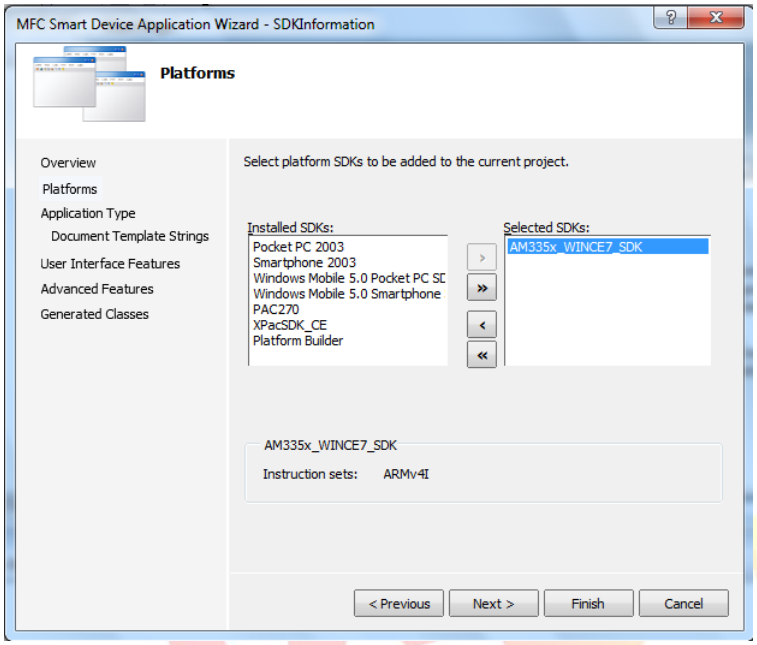


Step 6：Tap “Next >”

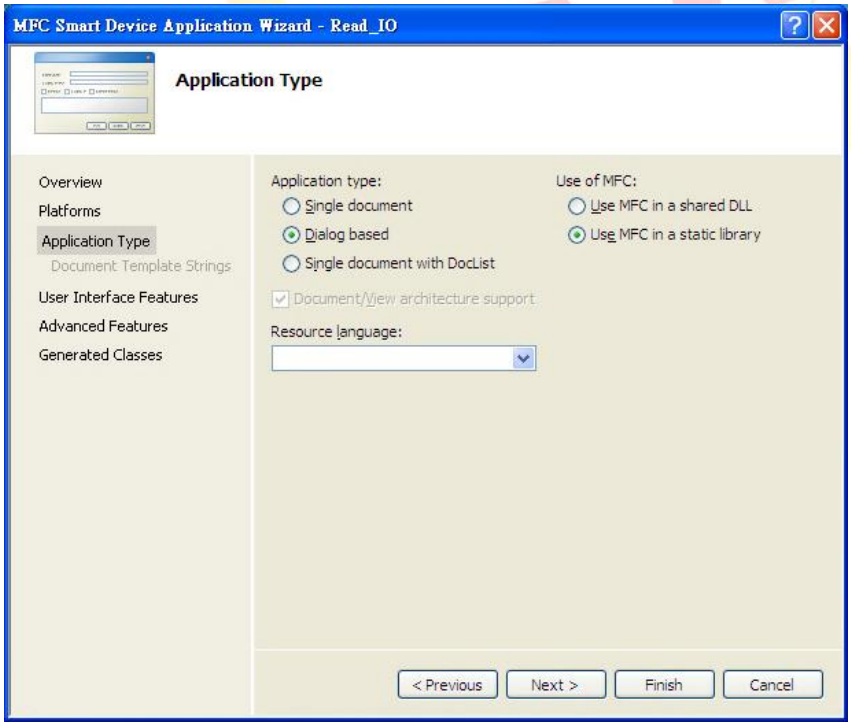


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Step 7：Add "AM335x_WINCE7_SDK" to your project.

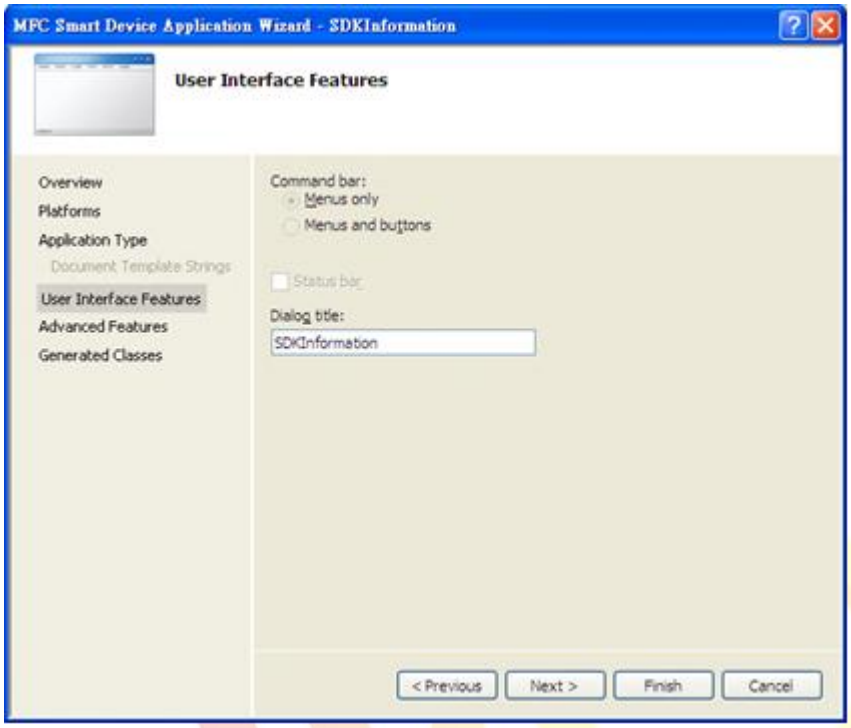


Step 8：Select "Dialog based", then tap "Next >".

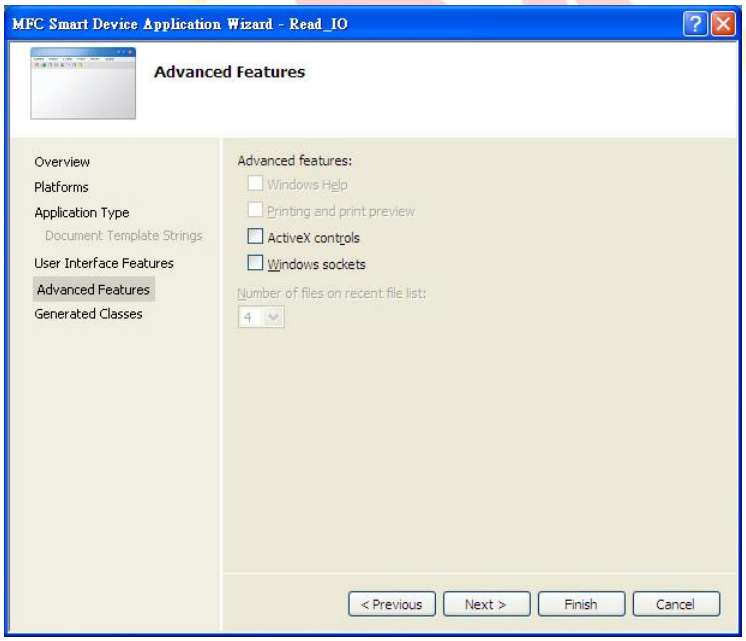


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Step 9：Tap “Next >”.

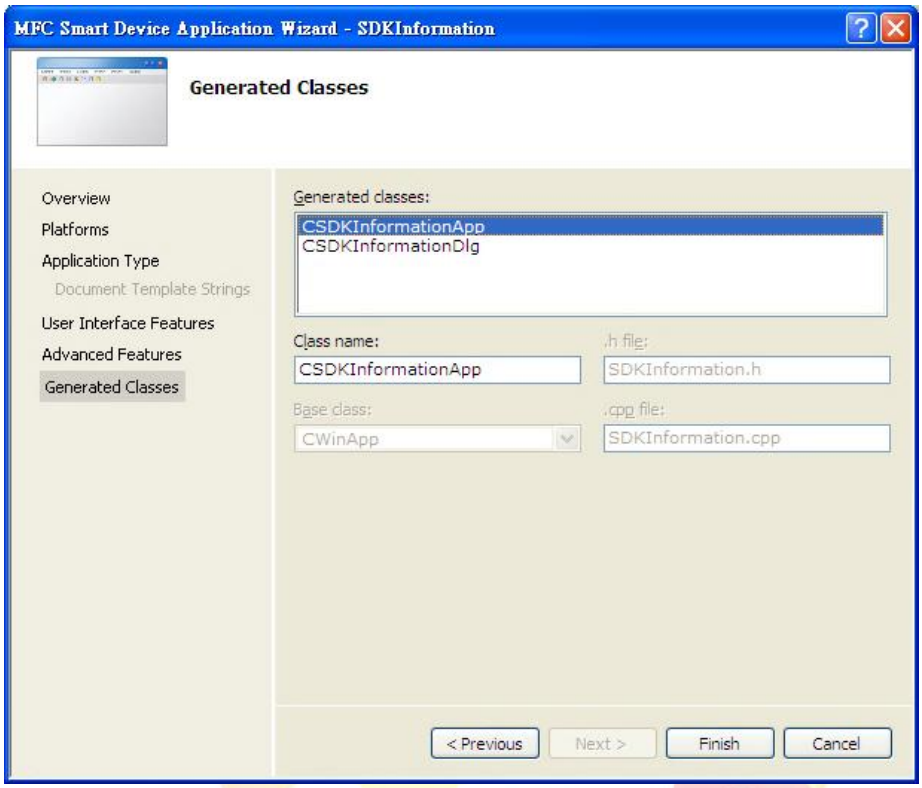


Step 10：tap “Next”.



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Step 11：Tap “Finish”.

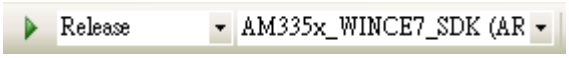


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2. Setting Platform：

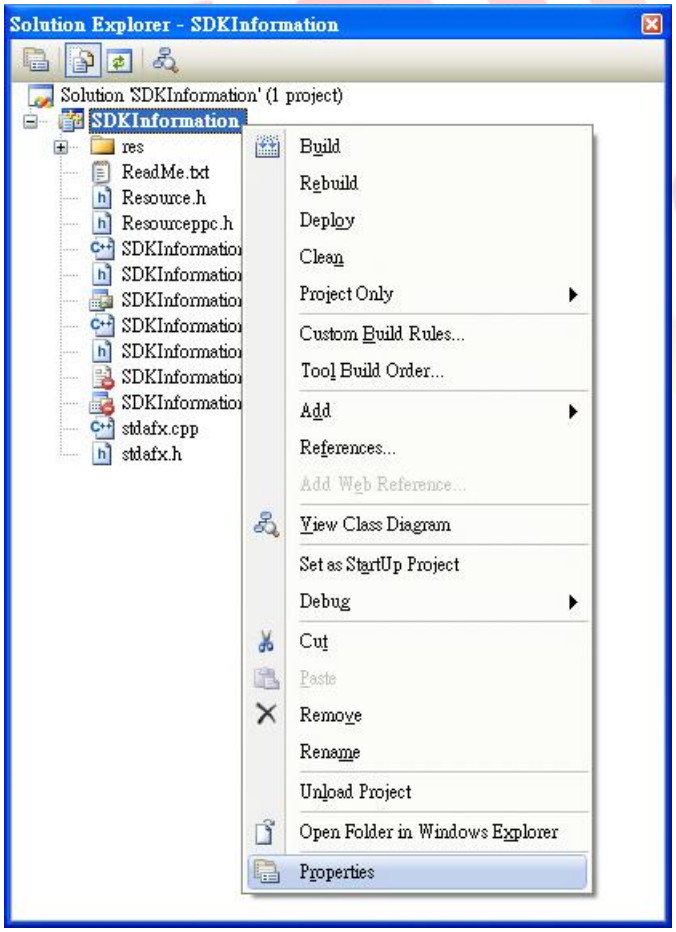
Remember to conform that the platform and the device's compatibility before download the application to device.

Select "Release" at debug tool list, and "AM335x_WinCE7_SDK" at Pocket PC 2003 (ARMV4).



3. Add PACSDK：

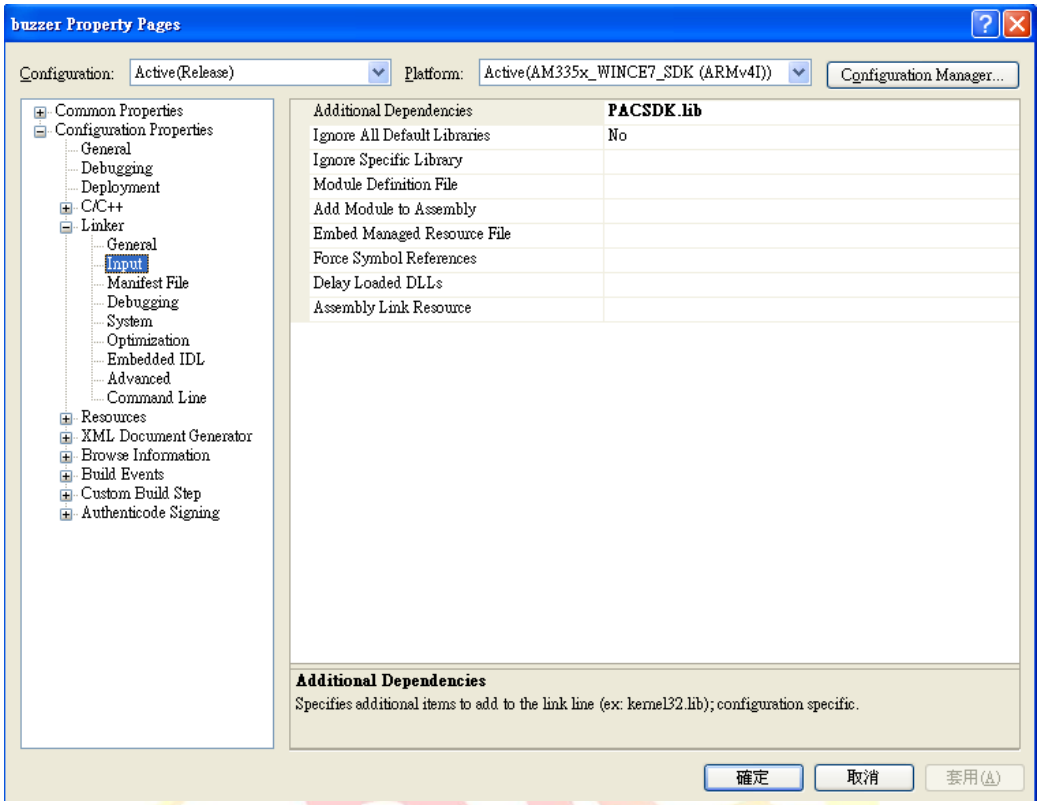
Step 1：Right tap the project name under "Solution Explorer", and click "Properties".



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Step 2：At left form, expansion “Configuration Properties”, find “Linker”, then tap ”Input”.

Step 3：Type ” PACSDK.lib” at the “Additional Dependencies”.

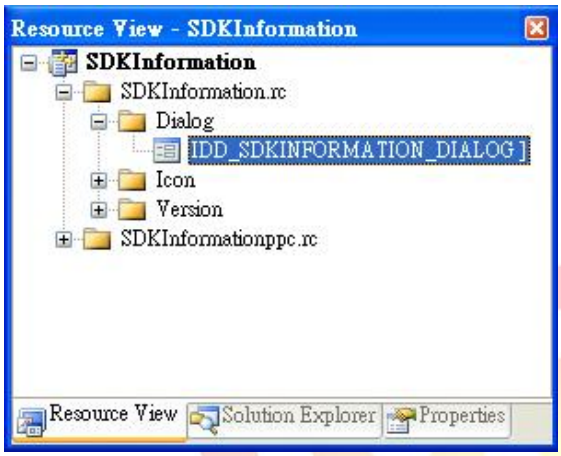


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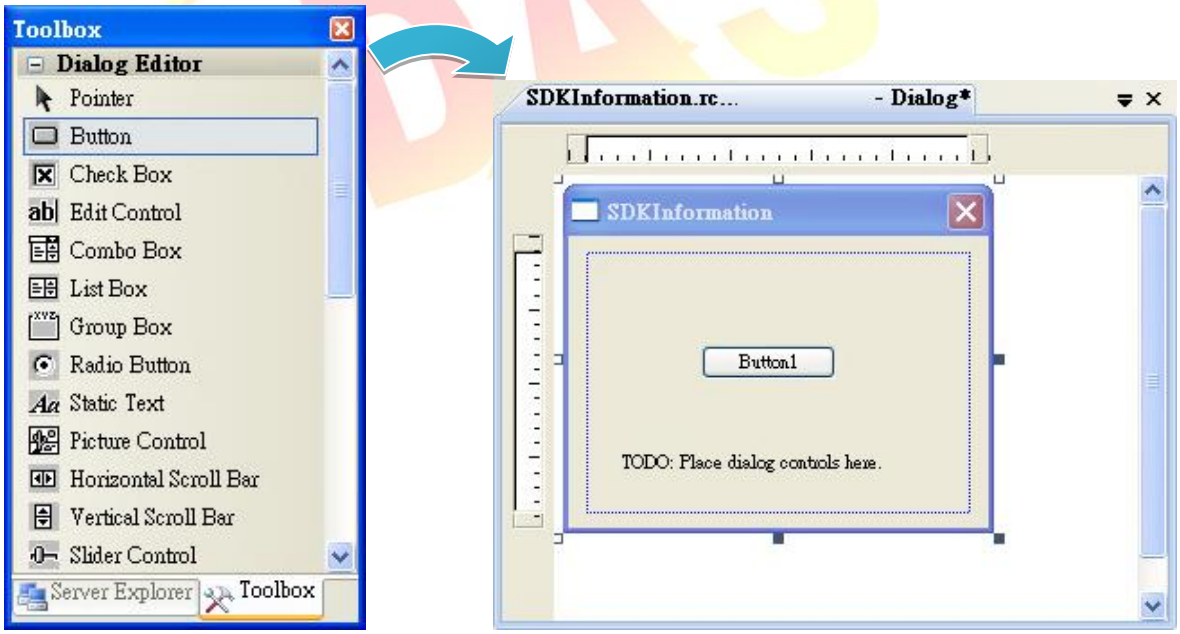
4. Add control item :

You can add and pull any control item that what and where you want, And modify it's property.

Step 1：Expansion the project name at "Resource View"，then find the "Dialog", expansion it and double click "IDD_SDKINFORMATION_DIALOG" to show the form.

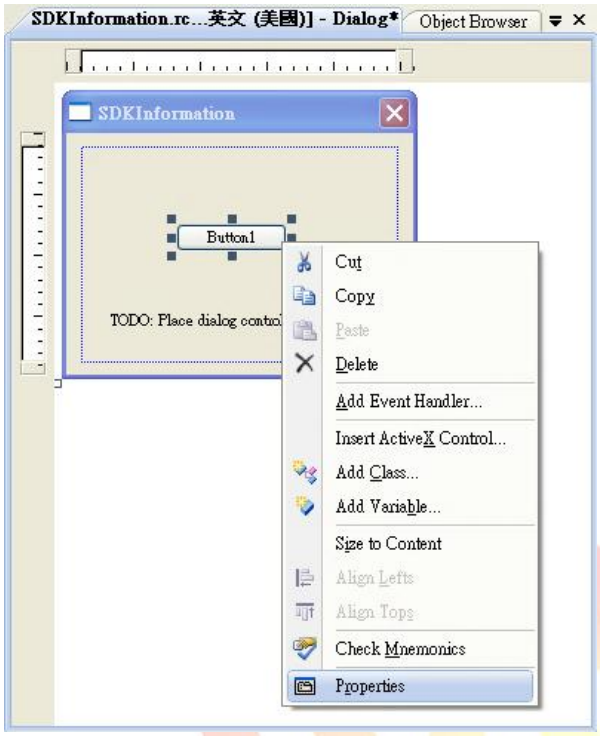


Step 2：Pull the Button from the "Toolbox" to the form.

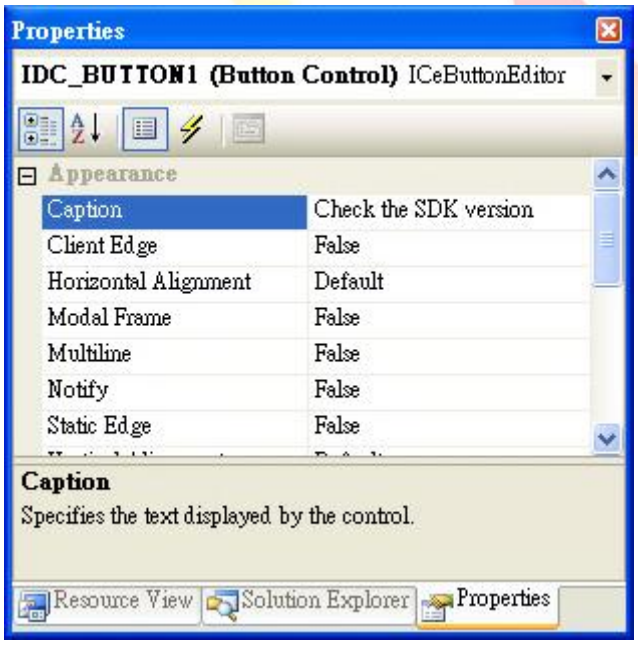


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Step 3：Right click the button, then tap the “Properties“.



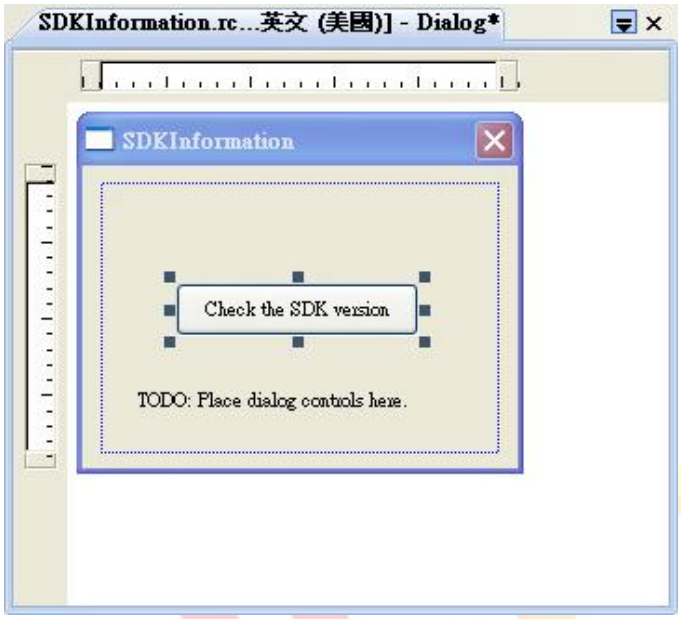
Step 4： Type “Check the SDK version” in “Caption”.



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5. Add event :

Step 1：Double click the button.



Step 2：Type following code at the area like the picture :

```
char sdk_version[32];
TCHAR buf[32];
pac_GetSDKVersion(sdk_version);
pac_AnsiToWideString(sdk_version, buf);
MessageBox(buf,0,MB_OK);
```

```
void CSDKInformationDlg::OnBnClickedButton1()
{
    // TODO: Add your control notification handler code here
    char sdk_version[32];
    TCHAR buf[32];
    pac_GetSDKVersion(sdk_version);
    pac_AnsiToWideString(sdk_version, buf);
    MessageBox(buf,0,MB_OK);
}
```

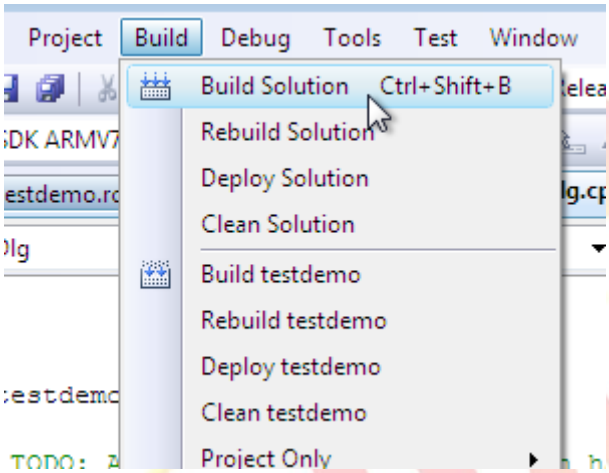

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Step 3：Add “PACSDK.h” at header like the picture.

#include “PACSDK.h”

```
#include "stdafx.h"
#include "SDKInformation.h"
#include "SDKInformationDlg.h"
#include "PACSDK.H"
```

Step 4：Build it.



Step 5：Now your first program has been build and ready to execution. You can find the file at the path :
(project file)\(project name)\AM335x_WINCE7_SDK(ARMv4I)\Release\(project name).exe

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