# AD\ANTECH Enabling an Intelligent Planet

### **Advantech AE Technical Share Document**

Date	2016/01/30	SR#			
Category	■FAQ □SOP	Related OS	N/A		
Abstract	How to Apply ADAM .N	et Library(DLL)	into C++ Developing Environment		
Keyword	ADAM .Net Library, C+-	F			
Related					
Product	All ADAM Series				

#### Problem Description:

This document describes how to apply ADAM .Net Library(DLL) into C++ developing environment using Microsoft Visual C#. Net.

### Answer:

The following step is to use ADAM class library in C++ developing environment. Use C++ to open a COM Port from "Advantech.Common.dll" for reference.

1. Put all dll in the folder where the project is located.

Ξ	Misc	
	(Name)	AdamLibraryTest
	Project Dependencies	
	Project File	C:\Users\owen.chang\Documents\Visual Studio 2008\Projects\AdamLibraryTest\AdamLibraryTest\vdamLibraryTest\vdamLibraryTest
	Root Namespace	AdamLibraryTest

ments\Visual Studio 2008\Projects\AdamLibi	raryTest\AdamLibrary	Test	
İ象 ▼   電子郵件   燒錄   新増資料夾			
名稱	修改日期	頬型	大小
殆 AdamLibraryTest.cpp	2016/1/30 上午 0	C++ Source	1 KB
🖥 AdamLibraryTest.vcproj	2016/1/30 上午 0	VC++ Project	5 KB
🐊 AdamLibraryTest.vcproj.ADVANTECH	2016/1/30 上午 0	Visual Studio Pro	2 KB
\delta Advantech.Adam.DLL	2015/2/13 上午 1	應用程式擴充	360 KB
🖹 Advantech.Adam.xml	2015/2/13 上午 1	XML Document	785 KB
🔕 Advantech.Common.dll	2015/2/13 上午 1	應用程式擴充	48 KB
Advantech.Common.xml	2015/2/13 上午 1	XML Document	189 KB
🔕 Advantech.Graph.dll	2015/2/13 上午 1	應用程式擴充	188 KB
🔮 Advantech.Graph.xml	2015/2/13 上午 1	XML Document	144 KB
🚳 Advantech.Protocol.dll	2015/2/13 上午 1	應用程式擴充	40 KB
🔮 Advantech.Protocol.xml	2015/2/13 上午 1	XML Document	59 KB
🚆 ReadMe.txt	2016/1/30 上午 0	文字文件	2 KB
殆 stdafx.cpp	2016/1/30 上午 0	C++ Source	1 KB
n stdafx.h	2016/1/30 上午 0	C/C++ Header	1 KB
🖻 targetver.h	2016/1/30 上午 0	C/C++ Header	1 KB

## ADVANTECH Enabling an Intelligent Planet

 Include the DLL by "#using" directive which imports metadata (dll) into a program compiled with /clr ( Common Language Runtime ) . Please click the project and choose "Properties" and make sure that "Common Language Runtime Support" has been selected before move further.

		回见见小课课		S CA U	
AdamLibraryTest.cpp				+ x	Solution Explorer - Solution 'Ad 👻 🤻
(Global Scope)	•			-	S 3 5 &
<pre> &gt;&gt;&gt; // AdamLibraryTest.cpp : Defines the /// funcinde "stdafx.h" fusing "Advantech.Common.dll" using namespace Advantech::Common; &gt;</pre>	entry point for the console appl ortNum): the COM port	ication.			AdamUbraryTest AdamUbraryTest AdamUbraryTest AdamUbraryTest AdamUbraryTest Source Files AdamUbraryTest.cpp AdamUbraryTest.cpp ReadMe.txt Solution Explorer Class View Properties
*   I	()周()				14 ( <b>4</b> ·
Output				• ‡ ×	
Show output from: Build	1 D 🔄 💦 🐨				
letdaf.cop 1>Compiling 1>AdmailtraryTest.cpp 1>Inkning 1>Enbedding memifest 1>Enbedding memifest 1>Schening meterstas information for e:\users\vermon.liu 1>AdmailtraryTest = 0 error(s).0 warning(s) ====================================	u Mesk top)新聞資料英(5)) adamli brary text bad Berk top 新聞賞賞科英(5) Mamili brary Text Mam ped	amlibrarytest\advantech.commo LibraryTest\Bebur\BuildLoz.ht	n.d11 a*	· · · · · · · · · · · · · · · · · · ·	
Error List Output				¥	
				L	



## ADVANTECH Enabling an Intelligent Planet

 After compiling the script ([Build] → [Rebuild Solution]), the exe file is produced in "Debug Folder". Please copy all of the dll to the "Debug Folder".

			_	
使用者 ▶ owen.chang ▶ 我的文件 ▶ Vis	ual Studio 2008 🕨 Proj	jects 🕨 AdamLibrary	/Test 🕨 Debug	
^				
名稱	修改日期	類型	大小	
AdamLibraryTest.exe	2016/1/30 上午 1	應用程式	35 KB	
🔄 AdamLibraryTest.ilk	2016/1/30 上午 1	Incremental Link	0 KB	
AdamLibraryTest.pdb	2016/1/30 上午 1	Program Debug	331 KB	
🚳 Advantech.Adam.DLL	2015/2/13 上午 1	應用程式擴充	360 KB	
🔮 Advantech.Adam.xml	2015/2/13 上午 1	XML Document	785 KB	
🚳 Advantech.Common.dll	2015/2/13 上午 1	應用程式擴充	48 KB	
Advantech.Common.xml	2015/2/13 上午 1	XML Document	189 KB	
🚳 Advantech.Graph.dll	2015/2/13 上午 1	應用程式擴充	188 KB	
Advantech.Graph.xml	2015/2/13 上午 1	XML Document	144 KB	
🚳 Advantech.Protocol.dll	2015/2/13 上午 1	應用程式擴充	40 KB	
Advantech.Protocol.xml	2015/2/13 上午 1	XML Document	59 KB	

### 4. Then "start debug", now it is successful to link the dll without any error.

