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How to migrate the WinPac program to XPAC							
	Platform		OS versio	n	XPAC u	tility version	on
X	PAC series	All ve	ersions (W	inCE6)	All versions		

Before migrating WinPAC programs to XPAC, please familiarize yourself with the different specifications for XPAC and WinPAC. The definition of the first slot on WinPAC is 0, whereas the first slot on XPAC is defined as 1. In addition, the definitions of the COM port order are different.

A comparison table of XPAC and WinPAC is shown in following table and diagrams.

	WP-8131	WP-8431	WP-8831	WP-8141	WP-8441	WP-8841	XP-8141	XP-8341	XP-8741
First Slot	0	0	0	0	0	0	51	1	1
COM 0	Used for backplane	Used for backplane	Used for backplane	Used for backplane	Used for backplane	Used for backplane	N/A	N/A	N/A
COM 1	RS-232	RS-232	RS-232	RS-232	RS-232	RS-232	Used for backplane	Used for backplane	Used for backplane
COM 2	RS-485	RS-485	RS-485	<b>RS-4</b> 85	RS-485	RS-485	<b>RS-23</b> 2	RS-232	RS-232
COM 3	N/A	RS-232/ RS-4 <mark>85</mark>	RS-232/ RS-485	N/A	RS-232/ RS-485	RS-232/ RS-485	RS-485	RS-485	RS-485
COM 4	N/A	RS- <mark>2</mark> 32	RS-232	N/A	RS-232	RS-232	RS-232	RS-232	RS-232
COM 5	N/A	N/A	N/A	N/A	N/A	N/A	RS-232	<b>RS-232</b>	<b>RS-232</b>













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For example, if COM1 and Slot 0 are used in a WinPAC program that is migrated to XPAC, COM1 must be changed to COM2 and Slot 0 changed to Slot 1. The WinPAC SDK must be replaced with XPACSDK.

Following procedure describes how to modify a WinPAC-based C# and VB.NET program for use with XPAC.

However, instructions for an eVC program will not be included as programs developed using this environment cannot be accurately migrated to a WinCE6.0 environment. It is recommended that developers wishing to migrate an eVC program to XPAC use VC++. Any developer that requires their eVC program to be modified fr use with XPAC should forward their source code to ICPDAS and our engineers will do the modifications for them.

Modifying a WinPAC C# Program (87k\_do as an example)

**Step 1:** Get the XPACNet.dll file and copy it to the project folder. The XPACNet.dll can be obtained from the folder for any C# demo program that is provided on the CD, or by downloading the latest version from the ICP DAS web site.

ftp://ftp.icpdas.com/pub/cd/XP-8000-Atom-CE6/SDK/XPacNet/



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**Step 2:** Open the 87k\_do project file. In the Solution Explorer panel, right-click the References node of 87k\_do project, and select the "Add Reference..." option.

Solution Explo	orer -	87k_do 🚽 👻 🗸	
🕒 🗗 🛃		i 🗉 🖧	
🧔 Solution	'87k_	_do' (1 project)	<u>b</u>
🖃 📑 87k	do asse	D_11	
😐 ··· 🚾 1		Buna	
	E	R <u>e</u> build	
🗔 🚮 J	F	Depl <u>o</u> y	
		Clea <u>n</u>	
		A <u>d</u> d	
	(	Add <u>R</u> eference	
		Add Web Reference	
	Ł	<u>V</u> iew Class Diagram	
		Set as St <u>a</u> rtUp Project	
		Debug 🕨	
	Ж	Cu <u>t</u>	
	8	<u>P</u> aste	
	$\times$	Remo <u>v</u> e	
		Rena <u>m</u> e	
		Unload Project	
		C <u>h</u> ange Target Platform	
		P <u>r</u> operties	

**Step 3:** In the "Add Reference" dialog box, select the Browse tab to add the XPacNET.dll library file. Navigate to the project source folder to select the File name and click the "OK" button.

Add Reference          .NET       Projects       Browse       Recent         搜尋位置①:       @ 87k_do         ③ bin       ○ obj         ③ roperties       ※ XPacNET.dll		
檔案名稱(M): XPacNET.dll 檔案類型(T): Component Files (*.dll;*.tlb;*.olb;*.oc	×;*.exe)	
	OK Cancel	

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Step 4: Open Fo 'using XPacNET Busing System; using System.Co using System.Da using System.Dr using System.Te using System.Wi	orm1.cs file from ". "llections.Generic mponentModel; ta; awing; awing; at; ndows.Forms;	the 87k_c	do project fold	ler. Modi ng System; ng System. ng System. ng System. ng System. ng System. ng System.	fy "the code u Collections.Gen ComponentModel Data; Drawing; Text; Windows.Forms;	nsing WinP neric; ;	acNet" to
<b>Step 5:</b> Modify:	all code of "Win riteD0_Click(obje	Pac"in yo	our code to "X private { Int //0	PacNET. void btnW Ptr hPort;	, XPac" riteDO_Click(ol	oject sender	, Ev
hPort = WinPA //Write DO va	C.wart_Open(""); lue	- Comment	hPo //₩	rt €XPacN rite DO va	ET.XPac.uart_Op lue	pen("");	
iSlot = Conve iRet = WinPAC if (iRet !- t MessageBo	t.ToInt16(cmb87kl )ac_WriteD0(hPor rue) x.Show("Error cod	DOSlot t, iSl ⊜" + i	iSl iRe if	ot = Cenve t = XPacNE (iRet <u>+ t</u> MessageBo	rt.ToInt16(cmb8 I.XPac.Dac_Writ nue) x.Show("Error o	37kDOSlot.Te teDO(hPort, code" + iRet	xt); iSlo );
<pre>//Close com p WinPAC.wart_C }</pre>	ort lose(hPort);		}	CONET.XPac.	ort art_Close(hPo:	ct);	
Step 6: Change	the Target devic	e field to '	"XPacSDK_C	<mark>E6 x</mark> 86 D	evice".		
<u>File E</u> dit <u>V</u> iew	<u>R</u> efactor <u>P</u> roject	<u>B</u> uild <u>D</u> e	ebug Target E	<u>a</u> ta <u>T</u> ools	Window Con	nmunity <u>H</u> ei	lφ
		1 <b>1</b> 7 + C		Release	• Any CF	U	- n
ALSCOPK_CE X80 D	Jevice •	1973 No. 1	i - 10 😤 ( 🏧 1		- L. M. M. A		22

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Ste	<b>p 7:</b> From tl	he Build menu,	select th	e Build optior	for you	r program.				
Bu	ild <u>D</u> ebug Ta	<u>rg</u> et D <u>a</u> ta <u>T</u> c								
***	<u>B</u> uild Solution	Ctrl+Shift+B								
	<u>R</u> ebuild Solution									
	Deploy Solution									
	<u>C</u> lean Solution									
	B <u>u</u> ild 87k_do	>								
	R <u>e</u> build 87k_do	_								
	De <u>p</u> loy 87k_do									
	Clea <u>n</u> 87k_do									
	Batch Build									
	Configuration M									

**Step 8:** Transfer both the build \*.exe file and XPacNET.dll file to your XPAC device and then execute them.

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## Modifing a WinPac VB.NET Program

**Step1:** Get the XPacNet.dll and copy it to the project folder. The XPacNet.dll can be obtained from any C# demo program that has been provided on the CD or by downloading the latest version from ICP DAS web site.

ftp://ftp.icpdas.com/pub/cd/XP-8000-Atom-CE6/SDK/XPacNet/



**Step 2:** Open the 87k\_do project file. In the Solution Explorer panel, right-click the References node of 87k\_do project, and select the "Add Reference..." option.



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**Step 3:** In the "Add Reference" dialog box, select the Browse tab to add the XPacNET.dll library file.

library file.	
Add Reference	
.NET Projects Browse Recent	
搜尋位置①: 🗀 87k_do 🛛 🔽 🕝 🤌 👂	9 <del></del>
i bin	
Properties	
XF3CIVE 1.01	
檔案名稱(11): XPacNET.dll	
檔案類型(T): Component Files (*.dll;*.tlb;*.olb;*.ocx;*.exe)	
OK	Cancel
"Imports XPacNET".	folder. Modify the text "Imports winPacNet" to
Imports WinPacNet Imports XPacNET	
<b>Step 5:</b> Modify all the code "WinPac" to "XPacNET.XF	Pac" in your code.
Private Sub btn87kdo_WriteDO_Click(ByVal sender As Sy:	'Open comport 'Den comport YPac wat Open("")
hPort = WinPAC.usrt_Open("")	
'Write DO value	'Write DO value <u>iSlot - Conv</u> ert.ToInt16(cmb87kdo Slot.Text)
WinPAC.pac WriteDO(hPort, iSlot, Convert.ToInt16(	XPacNET.XPac.pc_WriteDO(hPort, iSlot, Conve
VinPAC.uast_Close(hPort)	<pre>'Close com port XPacNET.XPac.uprt_Close(hPort)</pre>
End Sub	End Sub
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