WP - 8X4X Version 1.3.0.4 Release Note

Overview

The latest version of OS image and Eboot can be updated to WP-814x /WP-844x/WP-884x series controller. Provide on-line debug on VS.Net 2005/VS.Net 2008.

Latest Version:

OS Version 1.3.0.4 Eboot Version 1.0.5.6

New Functions

• OS image and Eboot support to WP-814x/WP-844x/WP-884x (Refer to http://www.icpdas.com/products/PAC/winpac/wp-8x41.htm for more details regarding the Product information)

Important Notices

- Slot Interrupt number for I/O module has redefined. The WinPACSDK.dll must be updated to V1.0.7.9 or later and the I/O module can work correctly on WP-8x4x with V1.3.0.4 OS.
- SQL CE 3.5 (3.5.5692.0) recovers to SQL CE 3.5 (3.5.5386.0)

*Fixs that sqlCmd.ExecuteResultSet(ResultSetOptions.Scrollable) causes the error exception on .Net CF program.

How to update Eboot and OS

Refer to WinPAC-8000_Version_1.2.1.0_Release_Note.pdf for more detail to updating the Eboot and OS.

Header files and library files for desktop:

WinPACSDK (PAC270_SDK.msi) provided an application developer with the information necessary to develop an EVC or .Net Framework application specifically for WinPAC.

- WinPACSDK.h is moved to the C:\Program Files\Windows CE Tools\wce500\PAC270\ ICPDAS\Include\ARMV4I\ from C:\Program Files\Windows CE Tools\wce500\PAC270\ Include
- WinPACSDK.lib is moved to the C:\Program Files\Windows CE Tools\wce500\PAC270\ ICPDAS\Lib\ ARMV4I\ from C:\Program Files\Windows CE Tools\wce500\PAC270\Lib

[Warning] After executed the .msi program, it will show a dialog ask you where do you want to install. We recommend you use the default setting, if you want to change the location, you should check your evc link path match up you setting.

[Brief Description]

This latest version (PAC270_SDK_20090225.msi) includes following files:

- WinpacSDK.lib: 1.0.7.9

- WinconSDK.lib: 2.2.0.11

The two files will be copied to c:\Program Files\Windows CE Tools\wce500\PAC270\ *ICPDAS* \Lib\Armv4i

- WinpacSDK.h: 1.0.7.9

- WinconSDK.h: 2.2.0.11

The three files will be copied to c:\Program Files\Windows CE Tools\wce500\PAC270\ ICPDAS \Include\ Armv4i

Update PAC270_SDK.msi

Only Install SDK for developing EVC application Click Custom



Click Next

d WinPAC270 Setup	
Custom Setup Select the way you want features to be installed.	\odot
Click on the icons in the tree below to change the v	way features will be installed.
Embedded Visual C++ Microsoft .NET Compact Framewor Common	Support for Embedded Visual C++
Documentation	This feature requires 8884KB on your hard drive. It has 1 of 1 subfeatures selected. The subfeatures require 89MB on you
Location: C:\Program Files\Windows CE Tools\	wce500\PAC270\ Browse
<u>R</u> eset Disk <u>U</u> sage < <u>B</u> a	ack Next > Cancel

Install SDK for developing EVC and .Net Framework application Click **Complete** button

🛿 WinPAC270 Setu	ıp 🔀
Choose Setup Type Choose the setup ty	rpe that best suits your needs
	Custom Allows users to choose which program features will be installed and where they will be installed. Recommended for advance Complete
	All program features will be installed. (Requires most disk spa
	< <u>B</u> ack <u>N</u> ext > Cancel

🛃 WinPA	C270 - Destination Folders	×
Destinat i Click Ne	ion Folders ext to install to this folder, or click Change to install to a different folder.	
<u></u>	Install WinPAC270 to: C:\Program Files\Windows CE Tools\wce500\PAC270\ Change	
	< <u>B</u> ack <u>N</u> ext > Cancel	

Build EVC Demo Load an EVC demo, such as loading *CD\napdos\wp-8x4x_ce50\Demo_V1210\WinPAC\eVC\PAC_I0\Remote\7k87k_ a*i

The error messages will appear on the EVC IDE environment below.

....\7k87k_ai\7k87k_aiDlg.cpp(8) : fatal error C1083: Cannot open include file: 'winpacsdk.h': No such file or directory



Or

LINK : fatal error LNK1181: cannot open input file 'winpacsdk.lib'



Click Directories tab on the Tools -> Options and add "*C:*|*Program Files*|*Windows CE Tools*|*wce500*|*PAC270*| *ICPDAS*|*Include*|*ARMV4*/" to "Directories:" below

Options					? 🗙
Tabs Debug	Compatibility	Download	Build	Directories	w (•••
<u>P</u> latform:	<u>C</u> PUs:			<u>S</u> how director	ies
PAC270	▼ Win32 (WCE 4	RMV4I)	•	Include files	-
<u>D</u> irectories:				<u> </u>	(+ +
C:\Program Fi C:\Program Fi <u>C:\Program F</u> i	les\Windows CE To les\Windows CE To <u>les\Windows CE To</u> adams <u>CE Toolow</u> eg	ols\wce500" ols\wce500" <u>ols\wce500"</u> 500\DAC271	\PAC270' \PAC270' \PAC270'	\Include\ARMV \mfc\include \atl\include	41
		ESUU(PACZ7)	υι ισρυά	SINCIUUEIARM	V4I K
			OK	c	Cancel

Add C:\Program Files\Windows CE Tools\wce500\PAC270\ ICPDAS\Lib\ARMV4I to "Directories:" below

Options			? 🗙
Tabs Debug Com	patibility Download	Build Directorie	s W(++
<u>P</u> latform: <u>C</u> P	PUs:	<u>S</u> how direc	ctories
PAC270 Vi	in32 (WCE ARMV4I)	 Library fil 	es 🔹
Directories:			× + +
C:\Program Files\Win C:\Program Files\Win <u>C:\Program Files\Win</u> Program Files\Window	idows CE Tools\wce500\ idows CE Tools\wce500\ <u>idows CE Tools\wce500\</u> vs CE Tools\wce500\PAC	PAC270\Iib\ARMV4I PAC270\mfc\Iib\ARM <u>PAC270\atl\Iih\ARM</u> 270\ ICPDAS\Lib\ A	4V4I V4I RMV4I
		ок	Cancel

Finish the actions above, and then click "OK" button.

Build the project again, and the project can be built successfully.

Debug WinPAC programs in Visual Studio 2005/2008

The OS image version of the WinPAC series must be V1.3.0.4 or later, and PAC270_SDK_20090225.msi must be installed on the PC.

The following steps are how debugs .Net CF program in VS2005/VS2008 Step 1: Copy the following files to \System_Disk\ICPDAS\System folder on WinPAC-8000

Clientshutdown.exe ConmanClient2.exe CMaccept.exe eDbgTL.dll TcpConnectionA.dll

Before copying these files to WinPAC-8000, make sure these files below are the same version.

For example

The version number of all the files below is 8.0.50727.42

1. C:\Program Files\Common Files\Microsoft

Shared\CoreCon\1.0\Target\wce400\armv4i



2. C:\Program Files\Common Files\Microsoft Shared\CoreCon\1.0\Bin

	C:\Program Files\Common Files\Microsoft Shared\C	oreCon\1	.0\Bin	
×	1033	-	ActiveSyncBootstrap.dll 8.0.50727.42 VSD Connection Manager ActiveSy	ConMan2.dll 8.0.50727.42 VSD connection manager
	ConManPS.dll 8.0.50727.42 VSD connection manager proxy/stub	*	DesktopDMA.dll 8.0.50727.42 VSD desktop DMA transport	edbgtl.dll 8.0.50727.42 VSD Managed Debugger Transport
≣	TcpConnectionC.dll 8.0.50727.42 VSD connection manager topc trans]		

3. C:\Program Files\Common Files\Microsoft Shared\CoreCon\1.0\Bin\1033



4. Right click the file and click properties to check the

clientshutdown.exe/CMAccept.exe/ConmanClient2.exe



Select the "Version" tab and Check the File Version



Step 2: On the " Project" menu, click " [Project Name] Properties..." command

File	e <u>E</u> dit <u>V</u> iew	Proje	ect <u>B</u> uild <u>D</u> ebug D <u>a</u> ta <u>T</u> ools	_ Te <u>s</u> t <u>W</u> indow <u>H</u> elp
6	- 🛅 - 😂 🕻		Add Windows <u>F</u> orm	🖳 🕨 Debug 💽 Any CPU
PA	C50-ARMV4: AR	H	Add <u>U</u> ser Control	
× 10	create_databa	E AS	Add Compo <u>n</u> ent Add <u>C</u> lass Shift+Alt+C	ject Browser
ollox	Application		Add New Item Ctrl+Shift+A Add Existing Item Shift+Alt+A	Platform: W/A
	Build		New Fol <u>d</u> er	
	Build Events	ð	Sh <u>o</u> w All Files	
	Debug		Unload Project	
	Resources		Add <u>R</u> eference Add Web Reference	database
	Reference Pat		Set as StartUp Project	T Compact Framework (including Service Packs)
	Signing	$\phi_{\hat{T}}$	Refresh Project <u>T</u> oolbox Items	
	Devices*		Change Target Platform	rtificate
	~		opgrade Frojeci	5
			create_database <u>P</u> roperties	
			h¢	

Step 3: On the "SystemInfo*" tab, unselect "Deploy the latest version of the .NET compact Framework (includeing Service Packs)" check box

Application	Configuration: N/A V Platform: N/A V
Build	
Build Events	>ployment Options
Debug	Target device: PAC50-ARMV4: ARMV4I_Release
Resources	Qutput file folder: %CSIDL_PROGRAM_FILES%create_database
Reference Paths	Deploy the latest version of the .NET Compact Framework (including Service Packs)
Signing	thenticode Signing
Devices*	Sign the project output with this certificate
	Select Cer

Step 4: On the "Tools" menu, click "Options…" command

.C50-A1	RMV4: ARMV41	I_Release 💌 🖳 🐖 🕰	53	Device Security Manager		
Стек	ate_database*	Form1.cs Form1.cs [Desig		Connect to De <u>v</u> ice Device Emu <u>l</u> ator Manager		
Ap	pplication	Configuration: N/A	19. 1	Connect to <u>D</u> atabase Connect to <u>S</u> erver		~
Bu	uld	ployment Options		– Code Snippe <u>t</u> s Manager Ctrl+K, Ctrl+B		
DU	The Events	Target device:		Choose Toolbo <u>x</u> Items		
Re	eoug	PAC5U-ARMV4: ARMV41 Qutput file folder: %CSIDL_PROGRAM_FILI		Add-in Manager <u>M</u> acros <u>P</u> artner Products Catalog		
Re	eference Paths	Deploy the latest version		Create <u>G</u> UID	oks)	
Sig	gning	thenticode Signing	thenticode Signing Dotfuscator Community Edition	Dotfuscator Community Edition		
De	evices*	Sign the project output w	14 6	<u>W</u> CF Service Configuration Editor <u>External Tools</u>		Select
				Import and Export Settings Customize		
				Options		

Step 5: On the "Options" dialog, select "PAC 270" from the "Show

devices platform" list, and then click the "Properties…" button

Options	? 🗙
 Documents Find and Replace Fonts and Colors Help Import and Export Settings International Settings Keyboard Startup Task List Web Browser Projects and Solutions Source Control Text Editor Database Tools Debugging Device Tools General Devices Form Factors 	Show devices for platform:

Step 6: On the "PAC50- ARMV4:ARMV4I_Release Properties" dialog, click the "Configure…" button

PAC50-ARMV4: ARMV4I_Release Properties	? 🛛
Default output location on device:	
Program Files Folder	~
Transport:	
TCP Connect Transport 🔽 🗸 🗸	Configure
<u>B</u> ootstrapper:	
ActiveSync Startup Provider 🛛 👻	Configure
Deject when device is disconnected	
	OK Cancel

Step 7: On the "Configure TCP/IP Transport" dialog, select the "Use

specific IP address" option and type the IP address of WinPAC-8000, and then click the "OK" button

Configure TCP/IP Transport	2 🔀
Use fixed port number:	5655
– Device IP address	
ODbtain an IP address autom	natically using ActiveSync
⊙ U <u>s</u> e specific IP address:	
10.0.9.43	×
	OK Cancel

Step 8: On the "PAC50- ARMV4:ARMV4I_Release Properties" dialog, click the "OK" button

PAC50-ARMV4: ARMV4I_Release Properties	? 🔀
Default output location on device:	
Program Files Folder	*
Transport:	
TCP Connect Transport 🛛 💌	<u>C</u> onfigure
<u>B</u> ootstrapper:	
ActiveSync Startup Provider 🛛 🗸 🗸 🗸	Configure
Detect when device is disconnected	
	OK Cancel

Step 9: On the "Options" dialog, click the "OK" button

Options		? 🛛
 Documents Find and Replace Fonts and Colors Help Import and Export Settings International Settings Keyboard Startup Task List Web Browser Projects and Solutions Source Control Text Editor Database Tools Debugging 		Show devices for platform: PAC270 Devices: PAC50-ARMV4: ARMV4I_Release Save As Rename Delete Properties
 Device Tools General Devices Form Factors 	~	Default device: PAC50-ARMV4: ARMV4I_Release
2 77 ms 77 m		OK Cancel

Step 10: On the WinPAC-8000 controller side, run the "CommanClient2" and the "CMAccept.exe" applications which is located at: \System_Disk\ICPDAS\System

<u>F</u> ile <u>E</u> dit	<u>V</u> iew <u>G</u> o									№? ×
	🦻 🗙 📝	-								
A <u>d</u> dress S	ystem_Disk\IC	PDAS\System								~
*	*		*			MS 19		*		
TcpConne	eDbgTL	ConmanCli	ConMan2	CMAccept	clientshut	AutoInit	AutoLoader	WinpacSDK	Sleep	
-	W	*	*	*	*	*	*	*	*	
WinconSDK	WINPAC	PAC8172	PAC8050	PAC8024	pac8017H	UARTCE	17000CE	Wincon	DCONCE	
-	-	*	*							
olece400d	OLECE400	mfcce400d	MFCCE400							
_										

Step 11: On the "Tools" menu, click "Connect to Device…" command

<u>F</u> ile	<u>E</u> dit	⊻iew	<u>P</u> roject	<u>B</u> uild	Debug	D <u>a</u> ta	Too	ols <u>W</u> indow	<u>C</u> ommunity	<u>H</u> elp
							5	Attach to <u>P</u> roce		Ctrl+Alt+P
							J,	Connect to De	<u>v</u> ice	
							۰.	Connect to <u>D</u> at	tabase	
							氲	Connect to <u>S</u> er	ver	
							G	Code Snippe <u>t</u> s	Manager C	trl+K, Ctrl+B
								Choose Toolbo	o <u>x</u> Items	
								<u>A</u> dd-in Manag	er	
								<u>M</u> acros		•
								Create <u>G</u> UID		
								Dot <u>f</u> uscator Co	ommunity Editio	ac
								<u>E</u> xternal Tools		
							<u>.</u> **	Device Emulat	or Manager	
								Import and Ex	port Settings	
								<u>C</u> ustomize		
								Options		
Step	12: O	n the	" Con	nect to	Devic	e" d	dialo	og, select "	PAC 270)" from

" Platform" list and then click the " Connect" button

Connect to Device	? 🗙
To connect to a physical device or launch an emulator image, select a platform; PAC270 Devices: PAC50-ARMV4: ARMV4I_Release	Cancel

Step 13: On the "Tools" menu, click "Connect to Device..." command



Step 14: Connection established. Then you can debug on line.

FAQ:

If the connection fails shown as follow, Return to Step 10 to do the action below

Connecting	? 🔀
To RAC 50 ADMY4: ADMY41 Polyce'	
Connection failed. ActiveSync is not installed.	
	Close

Run the "ConmanClient2.exe /transport:tcpconnectiona.dll /property:port=5000

/id:Con " at: \System_Disk\ICPDAS\System, and then run the

" CMAccept.exe"



The port number defined on Property:port=5000 must be same with the setting on Step7 (Check " Use fixed port number" and set to 5000)

Configure TCP/IP Transport			? 🗙
☑ <u>U</u> se fixed port number:	5000		A
O Obtain an IP address automatically	using ActiveSync	:	
⊙ U <u>s</u> e specific IP address:			
10.0.9.10			~
]
		ОК	Cancel

Note:

The CommanClient2.exe must run before running CMAccept.exe.

Support New Demo

1. SQL Demo

Location:

ftp://ftp.icpdas.com/pub/cd/winpac/napdos/wp-8x4x_ce50/demo/SQL_CE/C#/ sql_basic

CD:\napdos\wp-8x4x_ce50\Demo\SQL_CE\C#\sql_basic

Database Name:	sqldemo.sdf
Start time:	
End time:	
Total:	[]
Insert number:	100
Create Database	Update
incort	Delete