Windows CE Remote Tools for Moxa's Embedded Computers

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Windows CE Remote Tools for Moxa's Embedded Computers

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1 Microsoft Remote Tools

Microsoft provides many powerful utilities to allow remote operation of a Windows CE device from a Windows PC. These tools include *Remote File Viewer, Remote Registry Editor, Remote Process Viewer,* and *Remote Spy.*

Remote File Viewer is presented as an example. Please follow the steps below to initiate a remote file viewer that will show the files stored on your Moxa embedded computer. Other remote tools may be initiated in a similar manner.

NOTE: One or more of Moxa's Windows CE embedded computers are used in this manual to illustrate how to install and use the software.

However, the information described in this manual applies to all of Moxa's Windows CE embedded computers.

2 Using Remote Tools with eMbedded Visual C++ 4.0

- 1. Open eMbedded Visual C++ 4.0
- 2. Select Tools from the main menu bar and then click Configure Platform Manager.
- 3. Click the **Properties** button.



4. Select **TCP/IP Transport for Windows CE** from the **Transport** box, and then select **Manual Server** from the **Startup Server** box. Click **OK**.

Device Name:				
UC7400CE1.2	Device			
Select a transpo establish a com startup server Transport TCP/IP Transp	rt and a startup ser ection to your targ out for Windows C	ver. Choose Tes et device with the	t to verify th he selected to	at you can ansport and Configure.
Stortun Carros		\leq		
DIOLEGP DELVEL.				

5. In eMbedded Visual C++ 4.0, select **Tools** from the main menu bar and then **Remote File** Viewer (WCE500).

Windows CE Remote Tools

6. Select a device, (UC7400CE1.2 Device, for example), and then click OK.

🔕 Windows C.E. Remote File Viewer	
<u>File Yiew Connection H</u> elp	
●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●	
Select a Windows CE Device	
Ready	NUM

7. In the **Manual Server – Action** window that appears, copy the string inside the text box. Do not click **OK** or **Cancel** at this point.

lease m	ake sure the fol	lowing files ar	e on the devi	ce
WINDO WINDO WINDO	WS\tepipe.dll WS\cemgrc.ex WS\cellstub.dl	e I		
Andla	ench CEMGRC	EXE with the	following cm /D:192.168.2	7.43:1823
-				-

8. Use a Telnet client to log on to the embedded computer.

Windows CE Remote Tools

9. Paste the copied string to the Telnet window, and then press Enter.

CN Telmet 192.168.27.151	_ 🗆 ×
CEMGRC.EXE /T:TCPIPC.DLL /Q /D:192.168.27.43:1823	-

- 10. In the Manual Server Action window, click OK to start a connection.
- 11. The remote file viewer will appear.

🔕 Windows CE Remote File Viewer		
File Yiew Connection Help		
99980 <u>*</u> :		
UC7400CE12Device Network NoRFlash Ny Documents Program Files Femp H Windows	My Documents Network NORFlach Program Files Temp Windows n 232.exe	
Ready	1	NUM

Using Remote Tools with Visual Studio 2005

- 1. Before you use the remote tools, please make sure that no other ActiveSync device is connected to your workstation.
- On your PC, go to C:\Program Files\Common Files\Microsoft Shared\CoreCon\1.0\Target\wce400\ and open the appropriate folder for your CPU architecture. Copy the following files from that folder to your embedded computer:

Clientshutdown. exe CMAccept.exe ConmanClient2.exe DeviceDMA.dll eDbgTL.dl TcpConnectionA .dll

NOTE: For the UC-7400-CE, DA-660, and DA-66X-CE, please copy these files to the **NORflash** directory on your embedded computer. If you place these files in any other directory, they will be deleted when the embedded computer is restarted.

3. Log onto the embedded computer and run *conmanclient2.exe* in the background by entering the following command:

\> start conmanclient2.exe

NOTE: You can configure the embedded computer to launch the process automatically at bootup. For details, please refer to the user's manual.

4. Run *CMAccept.exe* in the background by entering the following command: > start CMAccept.exe

NOTE: This program accepts a connection from Visual Studio 2005 and immediately ends. For a new connection, run the program again.

 Open a Visual Studio 2005 Smart Device project. You may also start a new project as follows: New Project → Select project type → Choose Smart Device → Select templates → Give a project name → Click OK

Project types:		Templates		
Visual C# Visual C# Visual C# Offic- Smer P S Datab Starle Test E-Other Ler	tove e tDevice vocket PC 2003 martyhone 2003 Vintury E 5.3 pose er Kite ngunges	Vicual Studio installed tom Device Application Control Library Empty Project My Templates	n plates MCless Library Console Application	
🔁 Other Proje	oject Types ects			
 Other Proje Test Proje An empty proj 	oject Types ects ject for creeking a .NET Co	ompect Fiernework 2.0 spplicetion for	r Windows CE 5.0 and later	
 Other Proje Test Proje An empty proj Meme: 	ject Types sets ject for creeking a .NET C Pacject	mpeet Fismework 2.0 spplicetion for	r Windows CE 5.D and later	
An empty proj Meme: Location:	ject Types erts ject for creeking a .NET Co Project D:Wdy Documents	ompect Firsmework 2.0 application for Visual Studio 2005)Projects	r Windows CE 5.0 and later	Browse
Other Pro Test Proje An empty pro: Neme: Location: Solution:	ject Types erts ject for creeking a .NET Cr Project D:Wy Documents Create new Solutio	ompect Fismework 2.0 application for Visual Studio 2005'Projects n	Windows CE 5.0 and later	Browse

6. Click Device Options.

-	dbgl - Microsoft Visnal Studio	
E	le Edit <u>View Refactor Project Build Debug Data Iools Window Community H</u> elp	i.
58	🗍 - 🔠 - 🧭 🛃 🥔 👗 📬 🚉 🧑 - 🖓 - 💭 - 🖏 🕨 Debug 🔹 Any CPU	
W	Findows CE 5.0 Device 🔹 🛒 📰 🖭 🕰 🦕 🗔 👻 🏊 🗤 🗊 📰 😫 🛛	- 5
	Program.cs Start Page	×S
Serv	Bevice Options in (string[] args)	-
er Explorer	<pre>using System; using System.Collections.Generic; using System.Text;</pre>	- a
Toolb	⊡ namespace dbg1 {	
×	Class Program	
	<pre>static void Main(string[] args) (int i = 0, j = 0;</pre>	
	int k=0;	E
		P:
	Pending Checkins 👻 🦊	×

7. Choose **Properties....**

Environment	Show devices for platform:	
- Projects and Solutions - Source Control	Windows CE 5.0	~
Text Editor	Devices:	
, Database Tools , Debugging	Windows CE 5.0 Device	Save As
Device Tools		Rename
Devices		Delata
Form Factors HTML Designer		Loss of
Windows Forms Designer		Properties
	Default device:	
	Windows CE 5.0 Device	×

8. Choose Configure....

Windows CE 5.0 Device Properties	?	K
Default output location on device:		
Program Files Folder	~	
Transport:		
TCP Connect Transport	Configure	
Bootstrapper:		
ActiveSync Startup Provider	Configure	
Detect when device is disconnected		
	OK Cancel	

9. Check **Use specific IP Address** and enter the network address of the embedded computer. Click **OK** to continue.



10. Select **Remote File View** from **Start** → **Programs** → **Visual Studio 2005** → **Remote Tools.**

11. Click Configure