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# How to use VCEP to remotely control and monitor WinPAC and ViewPAC from anywhere on the Ethernet

Appli	es to:		
	Platform	OS Version	PAC Utility Version
	WinPAC	All Versions	All Versions
	ViewPAC	All Versions	All Versions

The ICP DAS VCEP is designed to help you manage your WinPAC/ViewPAC for any location. No matter where you are, the ICP DAS VCEP provides a convenient environment on your PC to remotely control the WinPAC and ViewPAC, capture screen of the WinCE PAC on PC, and synchronize files on the two sides and record screen activity to video.

The ICP DAS VCEP is composed of two main components: the 'Server' which runs on WinCE PAC and the 'Client' which runs on a regular PC. Once a connection is established between the client and server, the client periodically requests screen updates and sends mouse/key events to the server.



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In this article it introduces

- 1. How to get started with VCEP to link the WinPAC or ViewPAC via the LAN (page 2)
- 2. How to get started with VCEP to link the WinPAC or ViewPAC via the WAN (page 6)
- 3. After VCEP 5.0, make the Win PAC/ViewPAC active Connection from Server (page 10)
- 4. How to make the VCEP server always on over the PAC working time period (page 13)

## 1. Linking the WinPAC or ViewPAC via the LAN

You just need to run the VCEP server on PAC, and then configure the VCEP client on the PC. The VCEP client would scan all the servers on the LAN automatically and list them for you to select one server to link with.

Note: If your WinPAC/ViewPAC is behind the firewall, please make sure to keep port 1899 and 1903 open.

#### Server execution on WinPAC/ ViewPAC Side

Step 1: Go to "\System\_disk\Tools\VCEP" folder and double click v\_remote.exe.



#### **Client configuration on PC Side**

Step 2: Install the VCEP client on your host PC.

The "vcep\_4.2.0.7.exe" file is located at Companion CD: \ napdos\wp-8x4x\_ce50\pc\_tools\vcep\_4.2.0.7\ or ftp://ftp.icpdas.com/pub/cd/winpac/napdos/wp-8x4x\_ce50/pc\_tools/vcep\_4.2.0.7/

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FTP di 8x4x_	irectory , ce50/pc_	/pub/cd/winpac/napdos/ /pub/cd/win _tools/vcep	wp-8x4x_ce50/ pac/nap 4.2.0.7,	/pc_tools/vcep_4 pdos/wp· / at ftp.i	.2.0.7/ - icpdas	.com
Up to high	ner level direct	Tory				
12/07/200 12/07/200 12/07/200	09 03:30AM 09 03:30AM 09 03:30AM	1,855 hist 2,120,377 <mark>vcep</mark> 821,000 vcep	ory v4.2.0 _4.2.0.7.e _quick_sta	.7.txt xe rt_manual.pd	f	
Step 3: R	un the " <b>Virtua</b>	CE Pro Client"				
micros	soft Visual Studio 200	8				
🛅 PSPad	editor	•				7
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Step 4: Cl	lick the "New"	button to add a nev	connectior	).		
Virtual CE Pr	o					
File Connection	Script Window Help Connections	Scripts				
Name	Type Port Statu	s Name Status				
New	elete Edit Connec	New Edit Delete Play/Pau	ise Stop			
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Step 5: Enter a name in the "Name" textbox, choose the "LAN (Auto Discovery)" item from the "Connection Type" comboBox and click the "OK" button.

Name: New Connection	Window Background Color
Connection Type:	Change
Target IP Address:	Open Maximized
Port: Refresh Rate: 10 fp: -	Automatically connect at startup
Skin: Scale: 1X 💌	Low color mode
Screen Capture File Clipboard Cone Click Image file format (one click): BMP	C Queue Events
Recording Method Script events CAVI video	Show Mouse Cursor
	The next economic tion is encoded in
	The new connection is created in
	The new connection is created in "Connections" List as shown below.
	The new connection is created in "Connections" List as shown below.
<b>Virtual CE Pro</b> File Connection Script Window Help	The new connection is created in "Connections" List as shown below.
■ Virtual CE Pro File Connection Script Window Help Connections	The new connection is created in "Connections" List as shown below.
Virtual CE Pro         File Connection Script Window Help         Connections         Neme       Type         View Connection       LAN (Auto N/A Idle	The new connection is created in "Connections" List as shown below. Scripts Name Status
Virtual CE Pro         File Connection Script Window Help         Connections         Nexe:       Type       Port       Status         New:       LAN (Auto N/A Idle	The new connection is created in "Connections" List as shown below.

Step 6: Double click the "New connection" item in the "Connections" List;

the VCEP client program starts to scan the servers on the LAN.

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The PAC which is running the v\_remote.exe will be searched and added to the device list.

For example, the server is listed with Device Name "ICPDAS Device" and IP Address "10.1.0.77".

	LAN (Auto Discovery)	
	Select one or more devices to connect to	
	Device Name IP Address	
4	ICPDAS Device 10.1.0.77	
	< · · · · · · · · · · · · · · · · · · ·	
	Scanning for devices	
	Connect Cancel	

Step 7: Double click the target server; the desktop of the remote PAC will be displayed on the Host PC.



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## 2. Linking the WinPAC or ViewPAC via the WAN

#### Server execution on WinPAC/ ViewPAC Side

Step 1: Go to "\System\_disk\Tools\VCEP" folder and double click v\_remote.exe.

11	A <u>d</u> dress  \Syste	m_Disk\Tools\V	CEP	
Ne	ane		Size	Туре
(V.	V_REMOTE		107KB	Application
	WatchWCEP		4KB	Application
۵	WinPacNet		13KB	Application Extension
۵	WinpacSDK		93KB	Application Extension

#### Client configuration on PC Side

Step 2: Install the VCEP client on your host PC.

The "vcep\_4.2.0.7.exe" file is located at

Companion CD:\ napdos\wp-8x4x\_ce50\pc\_tools\vcep\_4.2.0.7\ or

ftp://ftp.icpdas.com/pub/cd/winpac/napdos/wp-8x4x\_ce50/pc\_tools/vcep\_4.2.0.7/

Address ftp://ftp.icpdas.com/pub/cd/winpac/napdos/wp-8x4x\_ce50/pc\_tools/vcep\_4.2.0.7/

# FTP directory /pub/cd/winpac/napdos/wp-8x4x\_ce50/pc\_tools/vcep\_4.2.0.7/ at ftp.icpdas.com

Up to higher level directory

12/07/2009 03:30AM 12/07/2009 03:30AM 12/07/2009 03:30AM 1,855 history v4.2.0.7.txt 2,120,377 vcep\_4.2.0.7.exe 821,000 vcep quick start manual.pdf

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Step 3: Ru	in the " <b>Virtual C</b>	E Pro C	lient"				
🛅 Micros	oft Visual Studio 2008	•					
🛅 PSPad e	editor						
💼 DAQPr	o	•	📷 VCEP 4.2.0.4	ا 🖬 ا	Uninstall Virtual CE P:	ro Client	
🔇 Micros	oft ActiveSync		•		Virtual CE Pro Client		>
🛅 ICPDA	2						
🛅 Nero 7	Premium						
👼 Lingoe:	\$2						

Step 4: Click the "New" button to add a new connection.

Virtual CE Pro	Window Hala				
e connection Scribt	mullow <u>n</u> elp		Sei	inte	
	Time	Port Status	Nama	Status	
aune	Type	FOIL STATUS	INSUITE	Status	
	1		1		
New Lelet	e Edit	Connect	New Edit Delet	e Play/Pause Stop	

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Step 5:

- 5.1 Enter a name in the "Name" textbox
- 5.2 Choose the "WAN / Internet" item from the "Connection Type" comboBox
- 5.3 Enter the IP address of PAC (server) in the "Target IP Address" address box.
- 5.4 Click the "OK" button.

Name:	New Connection	Window Backgr	ound Color
Connection Type:	WAN / Internet		Change
Target IP Address.	10 . 1 . 0 . 77	Open Maximized	
Port: 0	Refresh Rate: 10 fp: 💌	Automatically conr	nect at startup
Skin:	Scale: 1X 💌	Low color mode	
Screen Capture File C Image file format	Clipboard C One Click (one click): BMP 💌	C Queue Events	
Recording Metho	d C. AVI video	Show Mouse Cursor	ОК

## Tips & Warnings

Get the IP Address of the PAC by double-clicking the connection icon on the task bar of the PAC.

<b>~</b>	LANI
Internet Explorer	IP Information IPv6 Information
Microsoft WordPad	Internet Protocol (TCP/IP) Address Type: DHCP IP Address: 10.1.0.77
My	Subnet Mask: 255.255.0.0 Default Gateway: 10.1.0.254
<u>ا</u> م	<u>R</u> ene <del>w</del>
RegView	
🐉 LAN1	2:37 PM ጆ 🖷

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Step 6: Double click "New connection".

Virtual CE	і Рто								
<u>F</u> ile Connectio	on <u>S</u> cript	Window	<u>H</u> elp						
	Connections						Scri	pts	
Name		Туре	Port	Staros	Name			Status	
New Connection	ı	WAN / Inte	r N/A	Idle					
L,								4	
New	Delete	Edi	t Co	nnect	New	Edit	Delete	Play/Pause	Stop

Step 7: Wait few seconds for connection establishment. (Don't click the "Cancel" button.)



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# 3. After VCEP 5.0, make the Win PAC/ViewPAC active Connection

#### from Server

In some situation, WinPAC/XPAC/ViewPAC only has private IP in LAN, but has to communicate with PC in WAN



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#### PAC Side:

Step 2: Execute the VCEP, click the File->Configure menu operation.



Step 3: Check 'Connect to client' and assign two 'Client Addr.' for active connection from WinPAC/ XPAC/ViewPAC. If the first 'Primary Client Addr.' cannot be connected to, VCEP will connect to the second 'Secondary Client Addr' automatically. If the connection of the first 'Client Addr.' restore, you have to disconnect the second connection manually to connect to the first one. The 'Retry Cycle' means the time between two connections

Configure	
LAN	
Port Binding: 192.168.1.230 💉 Default Port: 1899 and 1903	
Require a password for LAN	
Password: jcpdas COM Port: COM1:	
Connect to client	
Primary Client Addr. 192.168.1.190 Port 123	
Secondary Client Addr. 192.168.1.227 Port 321	
Retry Cycle 3 sec.	
OK	

## PC side:

Step 4: Click the "New" button to add a new connection.



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#### Step 5:

- 5.1 Enter a name in the "Name" textbox
- 5.2 Choose the "Connect From Server" item from the "Connection Type" comboBox
- 5.3 Enter the port number of PAC in the "Port: " textbox.

(The 'Port' number should be the same with the 'Port' number at **Step 3**.)

5.4 Click the "OK" button.

New Connection	X
Name: To Client with Public IF	Window Background Color
Connection Type:	Change
Target IP Address: 0 . 0 . 0 . 0	🔲 Open Maximized
Port 123 Pefresh Rate: 10 fps 💌	Automatically connect at startup
Skin: Scale: 1X 💌	Low color mode
Screen Capture File Clipboard C One Click Image file format (one click): BMP	Cueue Events
Recording Method	Show Mouse Cursor Cancel

Step 6: Press the 'Connect' button and have patient waiting the connection from WinPAC/ViewPAC.

	Virtual (	CE Pro				$\overline{\mathbf{X}}$
	File Connec Nome New Connect	tion Script Window ) Connections Type ion WAN/Inter	Help Port S N/A Id	ate Name	Scripts Status	
С	onnect From S	erver				X
				Select one or mor	e devices to connect to	
	Device Name	MAC Address	Retry	Hour:Min:Sec	Primary Status	Secondary Status
	VP2501	000DE030125E	3	18:15:02	Connected(192.168.1.190)	Discomected(192.168.1.227)
				Waiting	for devices	Connect Cancel

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Author 4. Reboot r Step 1: Clia Step 1: Clia My Devic Microsof WordPar	Eric_Shiu mode for ck" PAC_Ut e Eskmar (AC_Utility) ts	Version VCEP s ility "	erver alwa	Date	2018/04/27	Page	13/14
Step 2: S PAC Uti File I Genera At mu can b exect at systems	Select" Auto	Execution	" → Click" B	rowse "	otary Execution Mi Delay Time(S Browse 0 Browse 0		2
		ΙርΡ ΠΑς	Co. Ltd Tech	nical doc	ument		

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### Step 3: Select the program by path

PAC Utility [1.2.2.1]	
File Help	
General Display IP Config Network Device Information Auto Execution Rotary Execution M.	
At most 10 programs can be specified to execute automatically at system startup.     Prod   Prod <t< td=""><td></td></t<>	

## Step 4: click" Apply " to save setting

eneral   Display   IP Co	nfig Network	Device Information	Auto Execution	Rotary Execution	n Mul	
_		🗌 Delay Auto Exec	ution	Delay Time(Sec)		
	Program 1:	\System_Disk\Tools	s\Vcep\v_remot	Browse	0	
	Program 2:			Browse	0	
	Program 3:			Browse	0	
_	Program 4:			Browse	0	
At most 10 programs	Program 5:			Browse	0	
execute automatically	Program 6:			Browse	0	
at system startup.	Program 7:			Browse	0	
	Program 8:			Browse	0	
	Program 9:			Browse	0	
	Program10:			Browse	0	
		Work Schedule	Clean			
				$\sim$		