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How to update OS image by Eshell (with DHCP server enabled)

Appli	es to:		
	Platform	OS version	WinPAC/ViewPAC utility version
	WP-8x3x/ XP-8x4x	All versions	All versions
	WP-5000	All versions	All versions
	VP-23W1/ VP-25W1	All versions	All versions
	VP-4131	All versions	All versions

If you do not have DHCP server enabled on the network, please go to page10.

Before update OS

1. Preparation of below devices.

Monitor/VGA line USB Hub USB Mouse USB Keyboard Micro_SD

2. Remember all settings on WinPAC Utility.

Start the WinPAC Utility on the desktop, and remember all settings (Example below).

ile Help Configuration iystem Setting Ethernet Setting FTP Setting Auto Execution Multi-serial port ivstem Setting Ethernet Setting FTP Setting Configuration Multi-serial port ivstem Setting Program 1 (System_Disk\Tools\SendToCOM\SendToCOM\SendToCOM.ex) Browse Program 2: Program 3: Browse Browse Program 4: Browse Browse Program 5: Program 6: Browse Program 7: Browse Browse Program 8: Program 9: Browse Program 9: Program 10: Browse Setting Setting Setting	ile Help Configuration System Setting Ethernet Setting FTP Setting Protaction Securities Auto Execution Multi-serial port Program 1 System_Disk\Tools\SendToCOM\SendToCOM\SendToCOM.ex Browse Program 2: Program Browse Program 2: Program Browse Program 2: Program Browse Program 1: Browse Browse <t< th=""><th>inPAC Utility [2.0</th><th>11.4]</th><th>×</th></t<>	inPAC Utility [2.0	11.4]	×
At most 10 program 5: Program 1: Program 2: Program 2: Program 2: Program 3: Program 4: Program 4: Program 5: Program 6: Program 6: Program 7: Program 7: Program 8: Program 9: Program 9: Program 1: Program 1: Program 1: Program 1: Program 2:	System Setting Ethernet Setting FTP Setting Protram Setting Auto Execution Multi-serial port Image: Constraint of the serial port Program Program 1 System_Disk\Tools\SendToCOM\SendToCOM.sendToCOM.ex Browse Program 2: Program 3: Browse Program 3: Program 4: Browse Program 5: Program 6: Browse Program 7: Browse Browse Program 9: Program 9: Browse Program 10: Setting Browse	File Help Confi	guration	
At most 10 program 5: Program 7: Program 7: Program 8: Program 9: Program 9: Program 1: Setting	At most 10 program 1: System_Disk\Tools\SendToCOM\SendToCOM.ex Program 2: Program 3: Program 4: Program 5: Program 6: Program 7: Program 7: Program 8: Program 9: Program 10: Setting	System Setting Eth	ernet Setting FTP Setting Contract Information Auto Execution Multi-serial port	۲
Program 2: Browse Program 3: Browse Program 4: Browse Program 5: Browse Program 6: Browse Program 7: Browse Program 8: Browse Program 9: Browse Program 10: Browse	Program 2: Browse Program 3: Browse Program 4: Browse Program 5: Browse Program 6: Browse Program 7: Browse Program 8: Browse Program 9: Browse Program 10: Browse Setting		Program 1 //System_Disk\Tools\SendToCOM\SendToCOM.ex Browse	
Program 3:BrowseProgram 4:BrowseProgram 5:BrowseProgram 6:BrowseProgram 7:BrowseProgram 8:BrowseProgram 9:BrowseProgram 10:Browse	At most 10 Program 3: Browse Program 5: Browse Program 6: Prowse Program 7: Browse Program 8: Browse Program 9: Browse Program 10: Setting		Program 2: Browse	
Program 4: Browse Program 5: Browse At most 10 Program 6: Browse program 7: Browse Program 8: Browse Program 9: Browse Program 10: Browse	At most 10 Program 4: Browse Program 5: Browse Program 6: Browse Program 7: Browse Program 8: Browse Program 9: Browse Program 10: Browse Setting Setting		Program 3: Browse	
At most 10 Program 5: Browse programs can be Program 6: Browse system startup. Program 8: Browse Program 9: Browse Browse Program 10: Browse Browse	At most 10 program 5: Program 6: Program 7: Program 7: Program 8: Program 9: Program 9: Program 9: Setting Program 10: Setting		Program 4: Browse	
At most 10 programs can be specified to execute automatically at system startup. Program 9: Program 10: Setting	At most 10 programs can be specified to execute automatically at system startup. Program 9: Program 9: Program 10: Setting		Program 5: Browse	
program 7: Browse execute Program 7: Browse automatically at system startup. Program 8: Browse Program 9: Browse Program 10: Browse Setting	program 7: Browse execute Program 7: automatically at Program 8: system startup. Program 9: Program 10: Browse Setting	At most 10 programs can be	Program 6: Browse	
automatically at system startup. Program 8: Browse Program 9: Browse Program 10: Browse	automatically at system startup. Program 9: Program 10: Browse Browse	specified to	Program 7: Browse	
System startup. Program 9: Program 10: Setting	System startup. Program 9: Program 10: Setting	automatically at	Program 8: Browse	
Program 10: Browse Setting	Program 10: Setting	system startup.	Program 9: Browse	
Setting	Setting		Program 10: Browse	
			Setting	
Backup your System_Disk in Milcro_SD.				
Backup your System_Disk in Micro_SD.				
Backup your System_Disk in Micro_SD.			ICD DAG Co. I (d. Technical deservant	
ECD DAS Co. Ltd. Technical document	ICD DAS Co. Ltd Technical document		ICP DAS CO., Ltd. Technical document	



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To update OS image by Eshell, please perform the following steps:

Tips & Warnings By default, the OS updates via LAN1. Therefore, to update the OS image, make sure LAN1 is connected to the LAN Network. ograde AN Step 1: Get the eshell.exe from cd:\napdos\wp-8x4x ce50\pc tools\eshell\ and WP8x4x_20130314_Ver.1.7.1.0_en.bin installation package file (or any version) from http://ftp.icpdas.com/pub/cd/winpac/napdos/wp-8x4x_ce50/os_image/update_from_eshell/. (*Note1) Note1: The other OS install files are located at: WP-8x3x: http://ftp.icpdas.com/pub/cd/winpac/napdos/wp-8x3x ce50/os image/update from eshell / WP-5000: http://ftp.icpdas.com/pub/cd/winpac/napdos/wp-5000_ce50/os_image/update_from_eshell / VP25W1 : http://ftp.icpdas.com/pub/cd/winpac/napdos/vp-2000_ce50/os_image/vp-25w1/update_from_eshell/ VP23W1 : http://ftp.icpdas.com/pub/cd/winpac/napdos/vp-2000 ce50/os image/vp-23w1/ update_from_eshell/

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Step 2: Turn the rotary switch to the "3" position and reboot.



Step 3: Execute "Eshell" on PC.

Select Device	
Enter Device Name:	OK
ו Or <u>S</u> elect From the List	Cancel
	Reset devices to automatically put names on the list.

Step 4: Select the device which you want to update the OS image.



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Step 5: Select	the latest versic	on of the	OS image file	Э.			
 winpac270_200903 wp8x4x_20090709 WP8x4x_2009100 WP8x4x_2009100 WP8x4x_2009102 WP8x4x_2009121 WP8x4x_2010011 WP8x4x_2010013 	224_ver.1.3.0.4_en.bin 9_ver.1.4.1.0_en.bin 6_Ver.1.4.2.0_en.bin 2_Ver.1.4.2.1_en.bin 8_Ver.1.4.3.0_en_beta 4_Ver.1.4.3.0_en_beta 0_Ver.1.4.3.1_en_beta	5.bin 4.bin 2.bin					
File Edit Tools Ontion	CE Debug Shell - WINP	AC270_3761	2 (H:\WP-8000os檜3	₹\₩P8x4x_2	0091022_¥er.1.4.2.:	l_en.bin)	
		• a +	2				
Downloading 'H:\\ Jumping to image Connecting to WII —	/₽-800005檔案\\\P8; on WINPAC270_3761 \PAC270_37612 usir	4x_200910 12 ng Etherne	22_Ver.1.4.2.1	_en.bin' 1	to 'WINPAC278_3	7612' (198	.162.1.3)
Paady						DO	

Step 6: Wait till the "Warning!" dialog box shows on WinPAC screen as below, click "**No**" to finish the process.

(If you update the older one OS to the latest, after reboot, please wait 5-10 minutes, the OS will format the System_Disk and the monitor display will become white or black at this moment.)

Warnin	gi 📉
•	Please turn the rotary switch to 0, normal mode, and reboot the device. Would you like to reboot right now or later?
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Step 7: Turn the rotary switch to the "0" (if you update OS version 1.4.3.1. Please go to page 8).



Important Warnings

If you **reboot** at step 8~11, the WinPAC/ViewPC OS will read the registry of old OS. Please

- 1. Turn the rotary switch to the "1" and reboot the PAC.
- 2. Run the WinPAC/ViewPC Utility, and then click "File" -> "Save".
- 3. Turn the rotary switch to the "0" and reboot the PAC.

After reboot, the WinPAC/ViewPC OS will read the registry of new OS.

Step 8: Make sure the System_disk folder is in "My Device".

		-						
<u>File E</u> dit	<u>V</u> iew <u>G</u> o							
								
A <u>d</u> dres.	ly Device							
		2	\triangleright	\triangleright	\sim	\triangleright	\triangleright	P
Application Data	My Documents	Network	profiles	Program Files	System_Disk	Temp	Windows	Control Panel
Step 9: R	estore your	backup da	ata from N	/licro_SD to t	he System <u>.</u>	_Disk.		
		I		a Ita Tashu	:			
		10	lr dag u	o., Liu. Techn	icai docume	III		

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Step 10: Restore your WinPAC settings.

Start the WinPAC Utility on the desktop, and restore all settings (Example below).

WinPAC Utility [2.0	.1.4]		
File Help Config	juration		
System Setting Ethe	ernet Setting	FTP Setting system multimation Auto Execution	Multi-serial port 🔹 🕨
	Program 1	System_Disk\Tools\SendToCOM\SendToCOM.ex	Browse
	Program 2:		Browse
	Program 3:		Browse
	Program 4:		Browse
	Program 5:		Browse
At most 10 programs can be	Program 6:		Browse
specified to	Program 7:		Browse
automatically at	Program 8:		Browse
system startup.	Program 9:		Browse
	Program 10	:	Browse
		Setting	

Step 11: Check the WinPAC OS version

Start the WinPAC Utility, and then check the version of the OS on the "System Information" tab.

WinPAC Util	ity [2.0.1.4]	
File Help	Configuration	
System Sett	ing Ethernet Setting FTP Setting Syste	em Information Auto Execution Multi-serial port
Slot 0: [Module Type:	WP-844x (96MB)
Slot 1:	Serial Number:	01-FF-ED-7F-12-00-00-6A
Slot 2.	OS Version:	1.4.2.1 , 2010/02/08 17:53:18
	Eboot Version:	1.1.0.11 , 2010/01/20 19:44:54
Slot 3:	Backplane Version:	1.0.2.0
Slot 4:	CPU Version:	1.0.8.0
Slot 5:	WinPacSDK Version:	1.0.9.3
Slot 6:	WinPacNet Version:	1.2.0.6
Clot 7	.NET Framework Version:	2.0.7045.00
51017.	SQL CE Version:	3.5.5386.0
	Last Save Date:	Wednesday, February 17, 2010

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Step 12: Save your WinPAC/ViewPC settings and registry key. 12.1. Start the WinPAC/ViewPC Utility and click "File" -> "Save" to save the settings.

File Help Configura	ation			
Save Save and Reboot		FTP Setting System Information	Auto Execution	Multi-serial por
Reboot <u>W</u> ithout Save Restore Default Setting	am 1:	Wicro_SD\Battery_Backup_SRAM.6	exe	Browse
E <u>x</u> it	am 2:			Browse
Pr	rogram 3:			Browse

12.2. Click the "Yes" button.

Warnin	g i 🛛 🗙
•	Would you like to save the setting ?

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How to update OS image by Eshell (without DHCP server)

Important Warnings

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The "ViewPAC" series do not have the debug port (COM1) to control the boot load. So, when you want to use the Eshell to update the OS for the ViewPAC, you need the DHCP server in the LAN network.

You still can update OS image by Eshell when your LAN network without DHCP service.

Before updates OS, Please do below acts.

Connect PC and WinPAC by RS-232 serial.

1. Connect with COM1



2. Click start->Programs->Accessories->Communications->HyperTerminal.



2.1. Key in the name of connection and click "OK".



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2.2. Select the COM Port connects with WinPAC.

Connect To	? 🔀
🍣 connect	to WINPAC
Enter details for	the phone number that you want to dial:
Country/region:	United States (1)
Area code:	886
Phone number:	
Connect using:	СОМ1
	COM1 COM2 TCP/IP (Winsock)

2.3. Set connection Configure according to below and click "OK".

COM1 Properties ? 🔀
Port Settings
Bits per second: 115200
Data bits 8
Parity None
Stop bits 1
Flow control: Hardware
Bestore Defaults
OK Cancel Apply

3. Turn the rotary switch to the "2" position and reboot.



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4. Press "SPAC connect to WINP/ File Edit View Call File Edit View Call File Edit View Call File Edit View Call Solution File Edit View Call Solution Solution File Edit View Call Solution File Edit View Call Solution File Edit View Call Solution File Edit View Call Solution Connect to WINP/ Solution File Edit View Call Solution Solution File Edit View Call Solution File Edit View Call File Edit View	E" button on K C - HyperTerminal Transfer Help C = 1 00089 00000001 J3 0 dr: 00-00-FE dr: 00-00-EE R] to downlo	Device Device -01-92-E -11-6A-0 ad now c	ID=0000001D	o cance	1.		
Initiating	image downlo	ad in 4	seconds.				
Connect to WI	NPAC - HyperTer	minal					
D 🛩 📾 🕉	•D 🎦 😭				A REAL PROPERTY OF THE PARTY OF		
					4		
dwLcdVGA LAN1 MAC LAN2 MAC Press [EN Initiatin	0x0 Addr: 00-00 Addr: 00-00 TER] to dou g image dou	0-FE-01 0-EE-11 wnload wnload	-92-EC -6A-00 now or [S] in 1 seco	PACE1	to cancel		
Ethernet	Boot Loadei	- Confi	guration:				
0) IP add 1) Subnet 2) # boot 3) Boot d 4) DHCP: 5) Reset 6) Downlo 7) Progra 8) Progra 9) Progra V) Curren D) Downlo	ress: 192. mask: 255 me's: 25 elay: 2 sec Enabled to factory ad new image m RAM image m LAN1 MAC m LAN2 MAC t display ad image no	168.255 255.25 conds defaul ge at s e into addres addres type is pw	5.1 55.0 t configu startup FLASH (End ss: 00-00- ss: 00-00- s 0:Depend	ration abled) EE-01- EE-11- on Re	92-EC 6A-00 gistry (0)~6)	
5. Pass "4" and Tips & Warni	pass "0" input ngs	static IP	address (Acco	ording to	static IP of	PC).	
 PC h	as to set Static	IP, too.					
<u>~</u>							

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5.1. Set the IP address for WinPAC according to the IP of Local Area Connection on PC (Example: 198.162.1.25).

Local Area Connection Prope	Internet Protocol (TCP/IP) Properties 🛛 🛛 💽 🔀
General Authentication Advanced	General
Connect using: Bealtek PCIe GBE Family Cont	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
This connection uses the following ite Client for Microsoft Neworks I Brile and Printer Sharing for M QOS Packet Scheduk	 Obtain an IP address automatically Use the following IP address: IP address: 198.162.1.25
Install	Subnet mask: 255.255.255.0 Default gateway: 198.162.1.254
Description 1 Transmission Control Protocol/Inter wide area network protocol that pro across diverse interconnected netw	Obtain DNS server address automatically Outer the following DNS server addresses: Preferred DNS server: Alternate DNS server:
✓ Notify me when this connection has	Advanced

5.2 You can use the IP 198.162.1.0 to 254(except 25).

File Edit View Call Transfer Help
8) Program LAN1 MAC address: 00-00-FE-01-92-EC 9) Program LAN2 MAC address: 00-00-EE-11-6A-00 V) Current display type is 0:Depend on Registry (0~6) D) Download image now 4
Ethernet Boot Loader Configuration:
 Ø) IP address: 192.168.255.1 1) Subnet mask: 255.255.255.0 2) # bootme's: 25 3) Boot delay: 2 seconds 4) DHCP: Disabled 5) Reset to factory default configuration 6) Download new image at startup 7) Program RAM image into FLASH (Enabled) 8) Program LAN1 MAC address: 00-00-FE-01-92-EC 9) Program LAN2 MAC address: 00-00-EE-11-6A-00
V) Current display type is 0:Depend on Registry (0~6) D) Download image now 0
Enter new IP address: 198.162.1.200

6. Pass "d" to save all settings and Reboot.

7. Go to page 1 to update the OS.

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Revision History

Revision	Date	Description
1.0.2	2013/07/04	NEW: Added support information for WP-5000 and VP-4131.
1.0.0	2010/02/12	Initial release