Chapter 4 Setting Up a Web HMI Demo

The WinPAC-5xx7 (or WP-5xx7) is the abbreviation of the WP-5147. The WinPAC-5xx6 (or WP-5xx6) is the abbreviation of the WP-5146.

Important Notice:

- 1. Please always set a fixed IP address to the WinPAC-5xx7. (No DHCP)
- 2. Recommend to use the Industrial Ethernet Switch (NS-205/NS-208) or Real-time Redundant Ring Switch (RS-405/RS-408) for WP-5xx7/5xx6.
- 3. The only I/O slot for XW-board in the WP-5xx7 is slot 0.

4.1 Web Demo List

The Web page location:

WinPAC-5xx7 CD-ROM: \napdos\isagraf\wp-5xx7\wp_webhmi_demo\

The respective ISaGRAF project location:

WinPAC-5xx7 CD-ROM: \napdos\isagraf\wp-5xx7\demo\

Demo list:

Name	Description	"IO Connection"
sample	A Web HMI sample	No I/O board
example1	A simple example listed in Chapter 4	slot 0: XW107
wphmi_01	Display controller's date & time	No I/O board
wphmi_02	DI & DO demo	slot 0: XW107
wphmi_03	Read / Write Long, float & Timer value	No I/O board
wphmi_04	Read / Write controller's String	No I/O board
wphmi_05	Multi-Pages demo Page menu is on the Left	slot 0: XW107
wphmi_05a	Multi-Pages demo Page menu is on the Top	slot 0: XW107
wphmi_06	AIO demo, scaling is in ISaGRAF	slot 2: (Virtual) I-87024W slot 3: (Virtual) I-8017HW
wphmi_07	AIO demo, scaling is in PC	slot 2: (Virtual) I-87024W slot 3: (Virtual) I-8017HW
wphmi_08	download controller's file to PC	slot 0: XW107
wphmi_09	pop up an alarm window on PC	slot 0: XW107
wphmi_11	Trend curve.	slot 2: (Virtual) I-87024W slot 3: (Virtual) I-8017HW

4-1

wphmi_12	Record 1 to 8 Ch. i8017HW 's volt every 50ms and draw trend curve by M.S.Excel	slot 3: (Virtual) I-8017HW slot 2: (Virtual) I-8024W
wphmi_13	Record 1 to 4-Ch. i8017HW's voltage every 10ms and draw trend curve by M.S.Excel	slot 3: (Virtual) I-8017HW slot 2: (Virtual) I-8024W

4.2 Steps to Set Up a Web HMI Demo

4.2.1 Step 1 - Setup the Hardware

A. Please have one WP-5147 and then plug one XW107 board in its slot 0.

If you don't have the XW107 (8 IN & 8 OUT board), please follow the same steps as below however your Web HMI demo may be replaced to "wphmi_01" not "wphmi_05"

- B. Prepare one VGA monitor, one USB mouse and one Ethernet cable and then connect them to the WinPAC-5xx7. (Keyboard is using the software keyboard on the bottom-right of the VGA screen)
- C. Power the WinPAC-5xx7 up.

4.2.2 Step 2 - Setting the Web Options

- A. Please refer to the Appendix A.3 to set a fixed IP address to the WinPAC. (No DHCP)
- B. Check on "Enable Web HMI" and then click on "Setting", Please check the "Enable Account Security" and then click on "Edit" to set (username , password). Then remember to click on "OK"

	WinPAC-5xx7/5xx6 ISaGRAF Drive	Security Settings	ок 🗙
isaWP5xx7	Setting Web About	Account Modbus List IP Setting	
	Options Fnable Web HMI Disable FTP Serveice Disable Telnet Serveice To set up advanced security , click or Settings	Enable Account Security Priority Low User Name Level1 Password ****** Edit Note: If "Enable Account Security" is not checked, any user can easily get access to your WinPAC through the Internet Explorer.	
		Priority High User Name Level3 Password ***** Edit	

4.2.3 Step 3 - Download ISaGRAF Project

Please download ISaGRAF project "wphmi_05" to the WinPAC-5xx7. This project is in the WP-5xx7 CD-ROM:\napdos\isagraf\wp-5xx7\demo\ "wphmi_05.pia"

wphmi_05 demo need one XW107.If you don't have the XW107 (8 DI & 8 DO board), you may download "wphmi_01" (CD-ROM:\napdos\isagraf\wp-5xx7\demo\ "wphmi_01.pia")

If you know how to restore "wphmi_05.pia" to your ISaGRAF Workbench and download it to the controller, please go ahead to the <u>Section 4.2.4</u>.

However if you don't know it, please refer to the below steps. Please make sure the ISaGRAF Workbench is already installed to your PC. (Refer to the Section 2.1 & 2.2)

Steps to Backing Up & Restoring an ISaGRAF Project:

For archiving purposes you can "Back Up" and "Restore" an ISaGRAF project. For example, you may want someone to test your program or email to <u>service@icpdas.com</u> for ICP DAS's ISaGRAF technical service.

Backing Up an ISaGRAF Project

Open the "ISaGRAF Project Management",

- 1. Select "Tools" > "Archive" > "Projects" from the menu bar to open "Archive Projects" window.
- 2. Click on "Browse" to set up the file path (e.g. C:\demo), and you can also click "Compress" to reduce the file size.
- 3. Select the project name you want to backup from the "Workbench" field.
- 4. Click on "Backup" to start the process.

📓 ISaGRAF - Pro	ject Management	
<u>File E</u> dit <u>P</u> roject	<u>T</u> ools <u>O</u> ptions <u>H</u> elp	
	<u>A</u> rchive	Projects 📉 🛛 💡
面 creation	<u>L</u> ibraries	Common data
🖬 example1	Import IL program	1. Open [Archive] Window
Reference : Author : Date of creation Version number Description :	: example1 1 : 2008/8/1 r : 1 - ISaGRAF 3.55 :	

4-3



Restoring an ISaGRAF Project

To restore an ISaGRAF project from a backed up file (*.pia), use the same method as above to access the "Archive - Projects" window.

- 1. Select the project name (backed up file) you want to restore from the "Archive" field.
- 2. Click on the "Restore" button. The ISaGRAF project will now be restored to the sub-directory you designated.



4.2.3.1 Steps to Download an ISaGRAF Project to the Controller:

Double click on the "wphmi_05" to get into the project. Then click on "Link setup".

📓 ISaGRAF - Project	Management 🛛 🗖 🗙
File Edit Project Tools	Options <u>H</u> elp
	🕅 🗃 🗘 🕂 😓 Samples 🛛 🦞
wphmi_01 w	inPAC Web HMI example 1 , Display controller's date & time (No VO b 🔺
wphmi 05 W	- ISaGRAF - WPHMI_05 - Programs
m wphmi 03 W	File Make Project Tools Debug Options Help
Beference :w h	
Author :	Begin: Begin: Begin: Link setup
Date of creation : 20	LD1 For system time & DIO
Description :	Sequential: sfc1 mode 1 to 3
Version for ICP-DAS i-7188	→ Child3 Left to Right
	Begin: ST1 (Structured Text)
	Version for ICP-DAS 1-7188/I-8000/IView/Wincon series controllers only

Click on "Setup" first and then entering the IP address of your controller. The port number should be 502.

	PC-PLC link parameters		×
	Target Slave Number:	0	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>
	Communication port:	ETHERNET	<u>C</u> ancel
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Internet add Port number The Work library for that this fil	tess: 502 topological states and the states of the states	<u>Q</u> K <u>C</u> ancel	

As figure below, to download "wphmi_05" project to the WinPAC-5xx7, click on "Debug". If communication has been established, click on "stop" to stop the old project running in the WP-5xx7. Then click on "Download" to download it to the controller.



4.2.4 Step 4 - Download Web Pages to the WinPAC

A. Please copy all files in the CD-ROM:

WinPAC-5xx7 CD: \napdos\isagraf\wp-5xx7\wp_webhmi_demo\wphmi_05\ *.* to the WinPAC-5xx7's \Miscro_SD\Temp\HTTP\WebHMI\

wphmi_05 demo need one XW107 in its slot 0. If you don't have the XW107 (8 IN & 8 OUT board), you may download "wphmi_01"

B. Since the Web Pages are modified or new copied, please run "rs_wphmi.exe" to reset the Web server. The "rs_wphmi.exe" must be run every time when user has modified any file in the WP-5xx7's \Micro_SD\Temp\HTTP\WebHMI\



4.2.5 Step 5 - Show Time

Please run Internet Explorer (Rev. 6.0 or higher), key in the IP address of your WinPAC-5xx7. For example: 192.168.1.232 or <u>http://192.168.1.232</u>

