

Instruction Sheet – Kepware Configuration for 3rd Party Communications Firmware

This document describes how to configure Kepware KepserverEx (version 5.5 and higher) to begin collecting tag data from the SmartPAC PRO equipped with Enhanced 3rd Party Communication Firmware.

Install Kepware

Complete the following steps to download and install Kepware KepserverEx:

1. Visit MyKepware.com and create an account.
2. Download the current version of KepServerEX. Unlicensed copies will stop collecting tag data after two hours of runtime and must be manually restarted. The unlicensed version is adequate for testing and experimentation, but you should obtain a licensed copy before using it in a production environment.
3. Once downloaded, double-click the .EXE file to begin the installation.
4. During installation, you must specify the proper drivers to communicate with the SmartPAC PRO (see figures 1 and 2 below). When the “Select Features” screen appears, click on the + next to “Communication Drivers” to display a list of available drivers (see Figure 1).

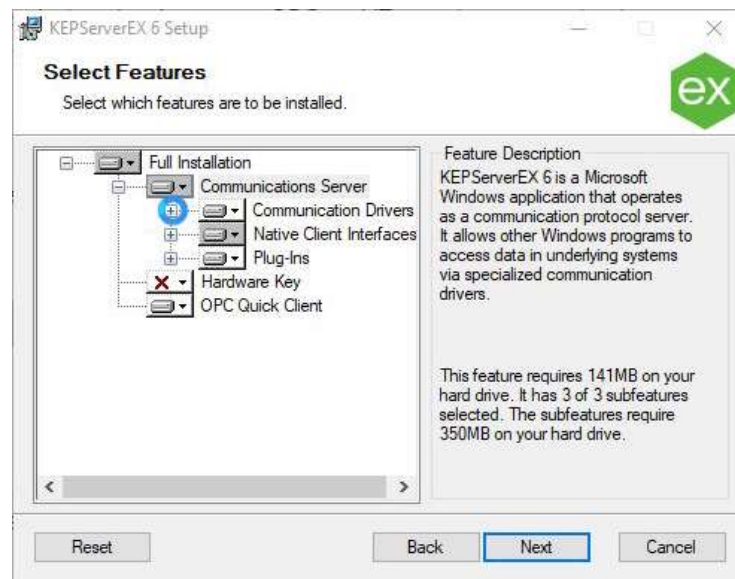


Figure 1- Select Features Screen

5. Scroll down the list, click on the down arrow next to Modicon Modbus Suite, and select “Entire feature will be installed on local hard drive” (see Figure 2). Click Next.

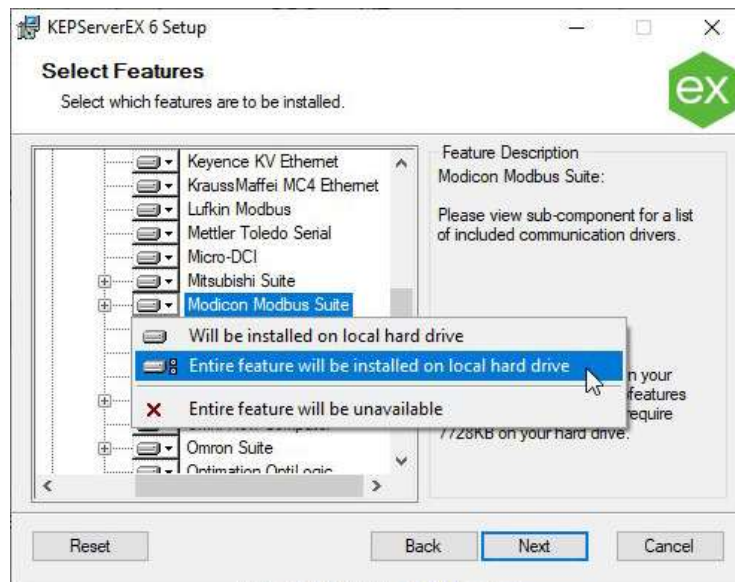


Figure 2- Installing the Modicon Modbus Suite

6. Continue selecting the default options until the installation is complete.

NOTE

If you are updating an existing KepServerEX installation, follow the manufacturer's instructions for installing the Modicon Modbus drivers.

Configure Kepware to Communicate with SmartPAC PRO

1. Assign a static IP address to the SmartPAC PRO by following the instructions in the "SmartPAC PRO Enhanced Third-Party Communications Firmware" Instruction Sheet: https://www.wintriss.com/docs/1138700D_Instr_Sht_SPAC_Third_Party_Comms_FW.pdf
2. Download the ".OPF File for 3rd Party Comms" from the Wintriss Download center at <https://www.wintriss.com/wcg/general/sppro-download.html>.
3. Start Kepware KepServerEX, select File, Open..., and browse to the .OPF file, and click "Open" (see Figure 3).

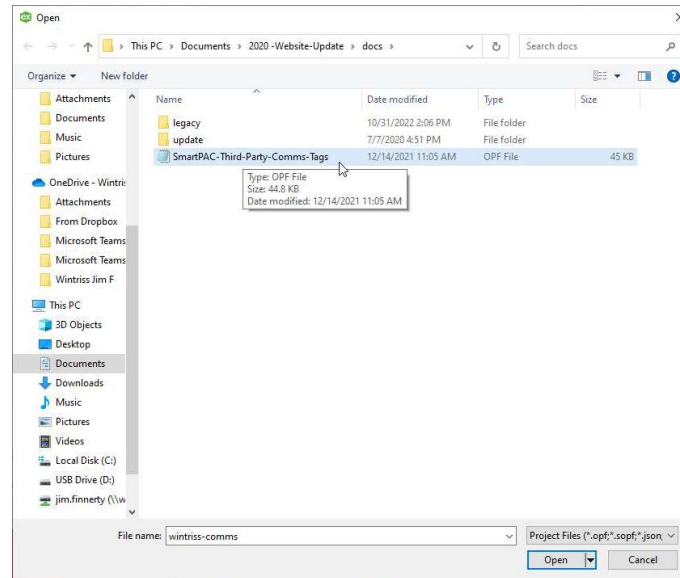


Figure 3 - Open the OPF File in KepServerEX

- The .OPF file imports all tag data for all SmartPAC versions into KepServerEX. Upon opening the .OPF file, the resulting Kepware project is shown in Figure 4.

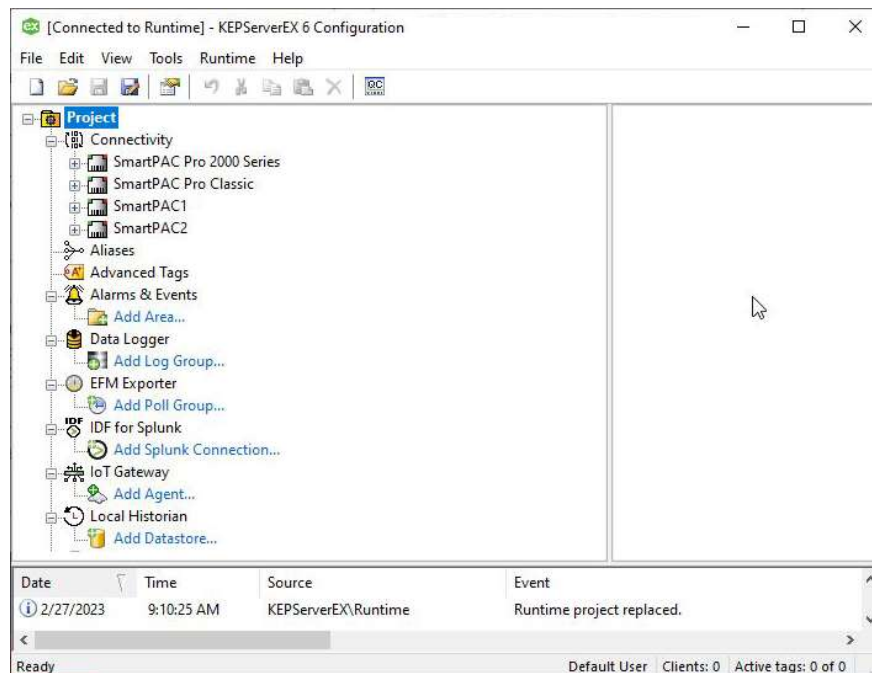


Figure 4 - Kepware Project Created by the OPF File

- Note that in addition to the two SmartPAC PRO profiles, there are also profiles for SmartPAC 2 and SmartPAC 1. If you are connecting a SmartPAC PRO for the first time, you will use the profile labeled “SmartPAC Pro 2000 Series”. If the SmartPAC PRO is replacing a SmartPAC 2 that had already been connected to KepServerEX, use the “SmartPAC Pro Classic” profile.

- To begin collecting tag data from your SmartPAC RRO, click on the + sign next to “SmartPAC Pro 2000 Series”, right-click on “SPPRO” below it, and select “Properties” (see Figure 5).

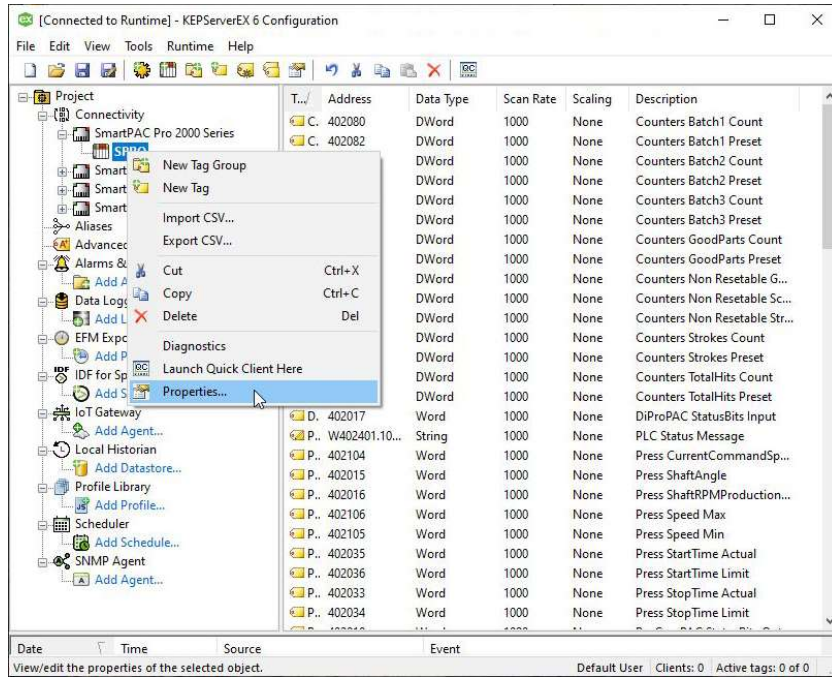


Figure 5- SmartPAC Pro 2000 Series Properties in KepServerEX

- When the Property Editor screen appears, replace the IP address in the ID field with the IP address assigned to the SmartPAC PRO in Step 1 above, then click “Apply” and “OK” (See Figure 6 below).

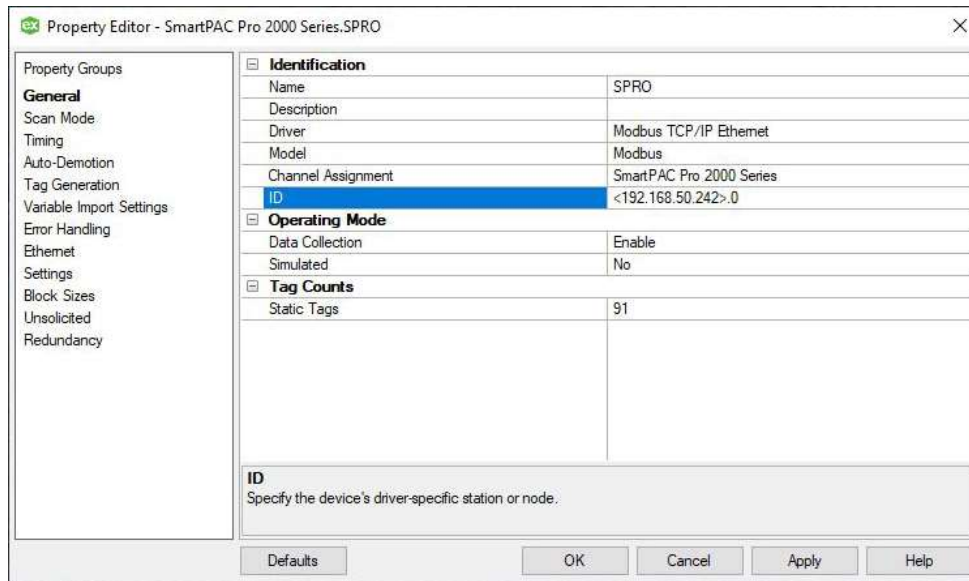


Figure 6- Setting the IP Address in the KepServerEX Property Editor

8. KepServerEX should now collect tag data from the SmartPAC PRO. To verify, click on the Quick Client icon on KepServerEX's toolbar (see Figure 7).

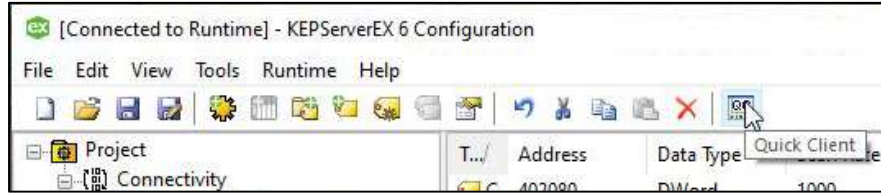


Figure 7- Quick Client Icon

9. When Quick Client opens, click on the folder labeled “SmartPAC Pro 2000 Series SPRO”. The tag list on the right will show the current values of all the data tags collected (see Figure 8).
10. KepServerEX is ready to provide SmartPAC PRO data to your 3rd Party SCADA system.

Adding Additional SmartPAC PRO Instances

You can add additional SmartPAC PRO systems to KepServerEX using the Copy and Paste functions:

1. In KepServerEX, right-click on the SmartPAC PRO 2000 Series profile you configured and select Copy (see Figure 9).
2. Right-click on “Connectivity” and select Paste. KepServerEX will create another instance of a SmartPAC PRO profile. (see Figures 10 and 11). Follow the instructions beginning in Step 6 above to specify the IP address for the new SmartPAC PRO.
3. Repeat these steps as necessary until all your SmartPAC PROs are connected to KepServerEX.

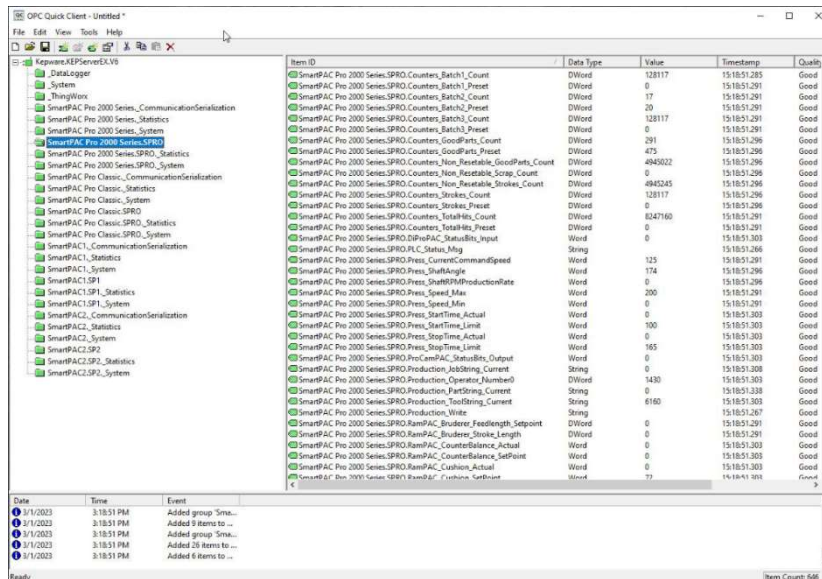


Figure 8 - SmartPAC PRO Tag Data in Kepware Quick Client

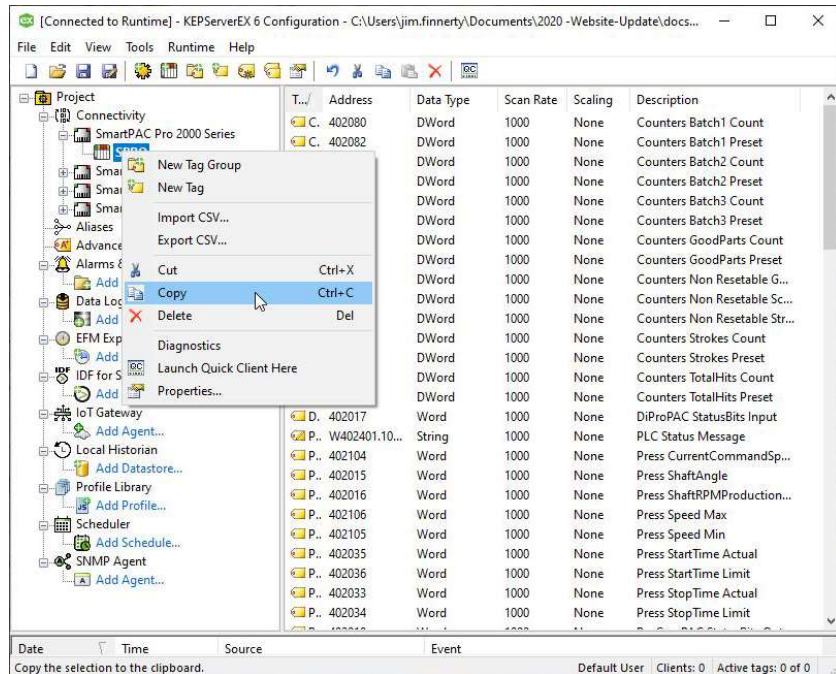


Figure 9- Copying an existing SmartPAC PRO Profile

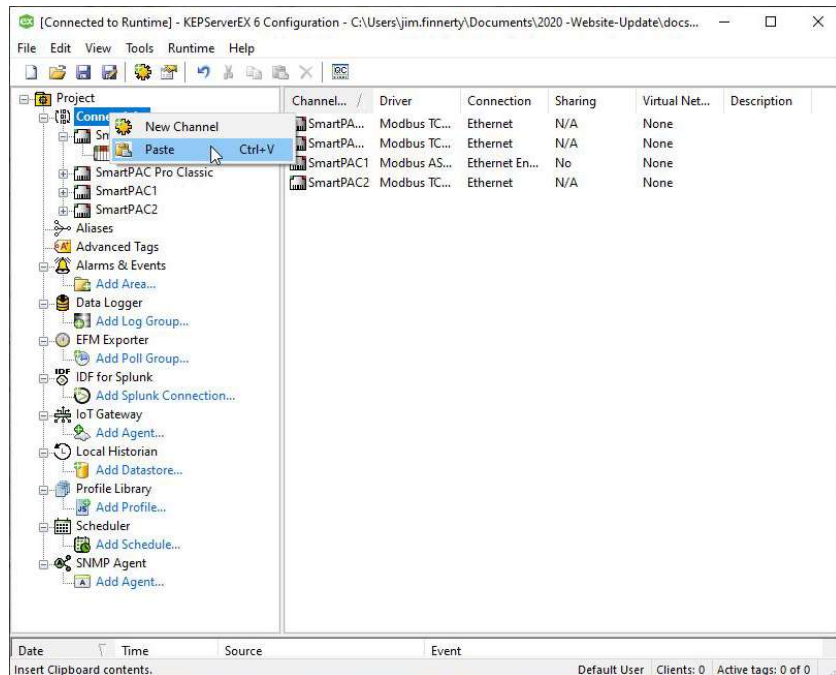


Figure 10-Paste the Profile Copy under "Connectivity"

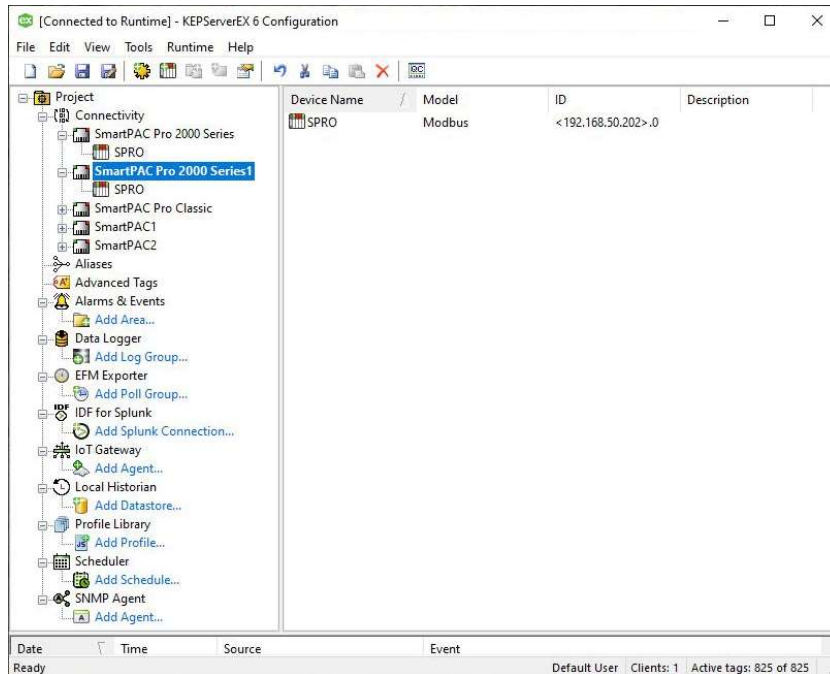


Figure 11- KepServerEX with two SmartPAC PRO profiles