



Third Party Software Application Note

Guide to using SeaIO OPC Server with



DAQ Factory

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Introduction

AzeoTech's data acquisition products offer powerful, easy-to-use and affordable solutions to help you acquire data, log it, share it on a network, display it on user-designable screens, analyze it, and automate your process.

DAQ Factory data acquisition, process control and data analysis software provides all the software tools you need to communicate with a wide variety of data acquisition devices, from Serial RS232 to OPC.

Hardware Installation:

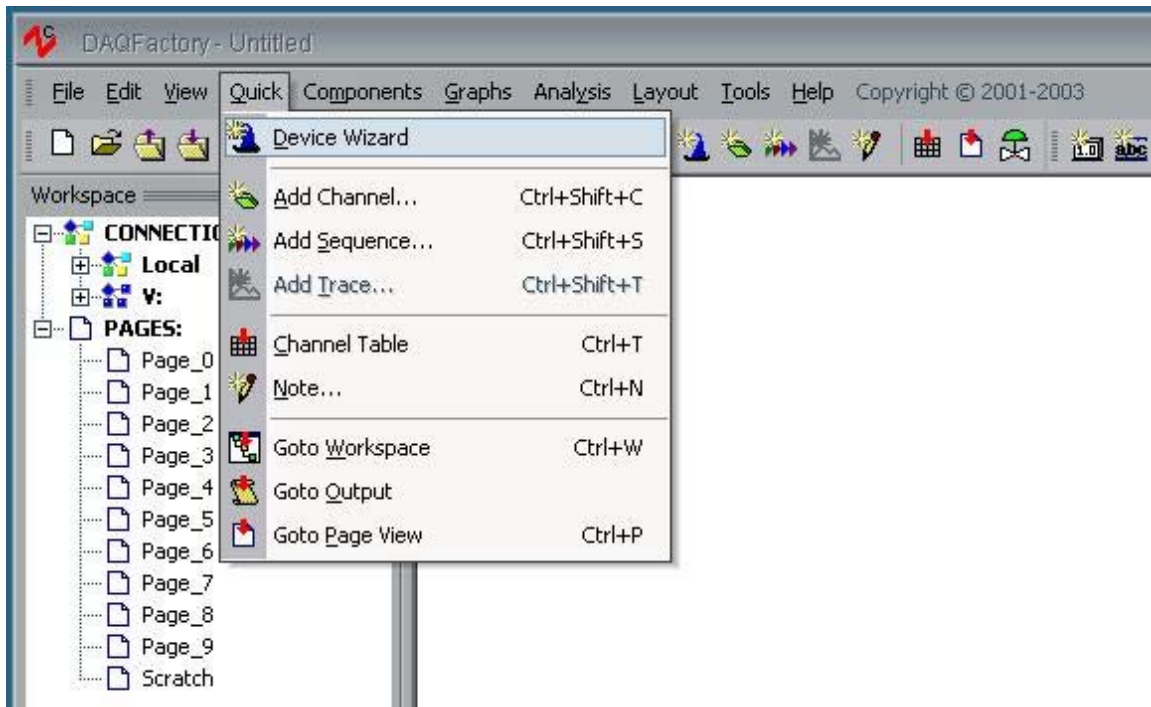
Install the card as per the directions in SeaIO.hlp or your manual, and use the "SeaIO Devices" in the control panel to find out what the port number the card is installed as.
Ex. 8001 card 0

Software Installation:

Install the SeaIO OPC Server as per the directions in the SeaIO OPC Server.hlp file.

Application Example:

1. Open up the device wizard by clicking on the "Quick" selection on the menu bar. Then we want to click on the OPC Wizard option.

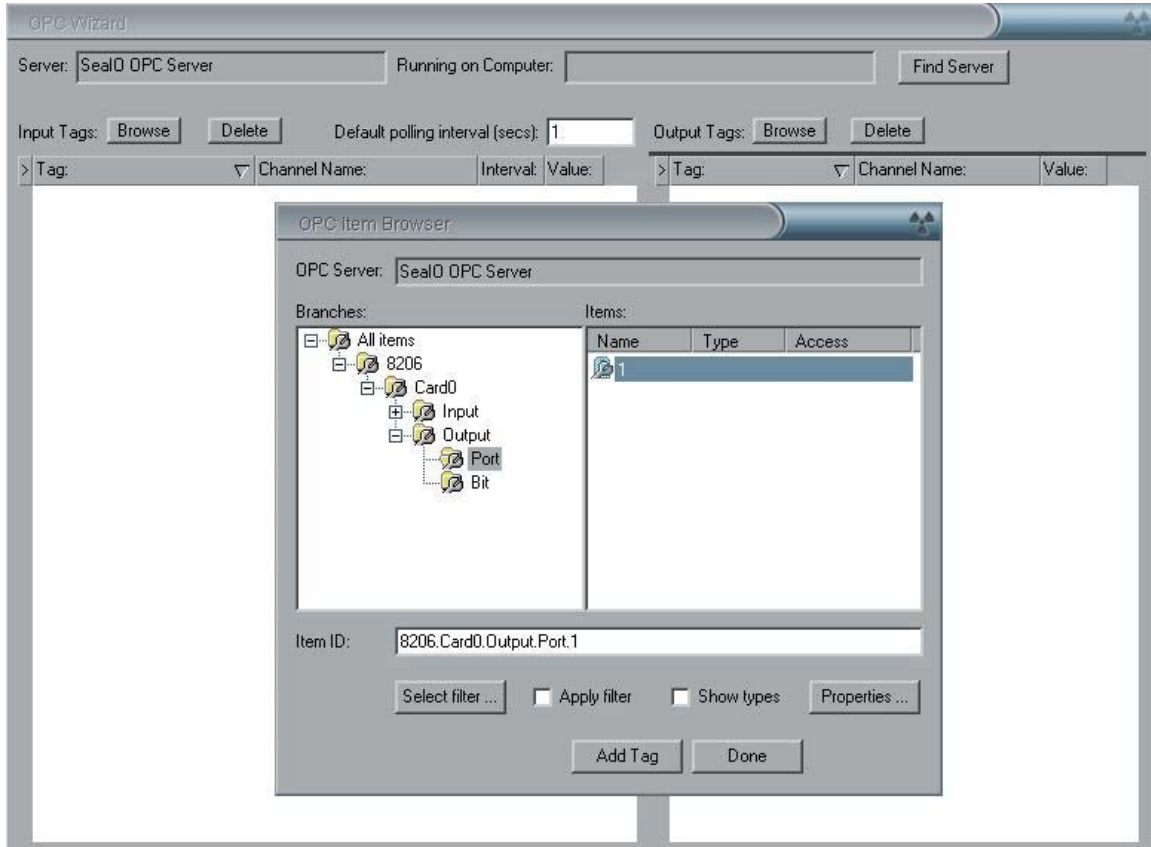




2. Now out of the servers listed we want to select the SeaIO OPC Server.



3. Now add all the items you would like by clicking on the browse button. Remember all the items add to the left are input tags and all on the right are output tags.



4. Here is an example on how an item looks when added. Now if you noticed we added an output port to the input side, this is because we want to monitor the output port.

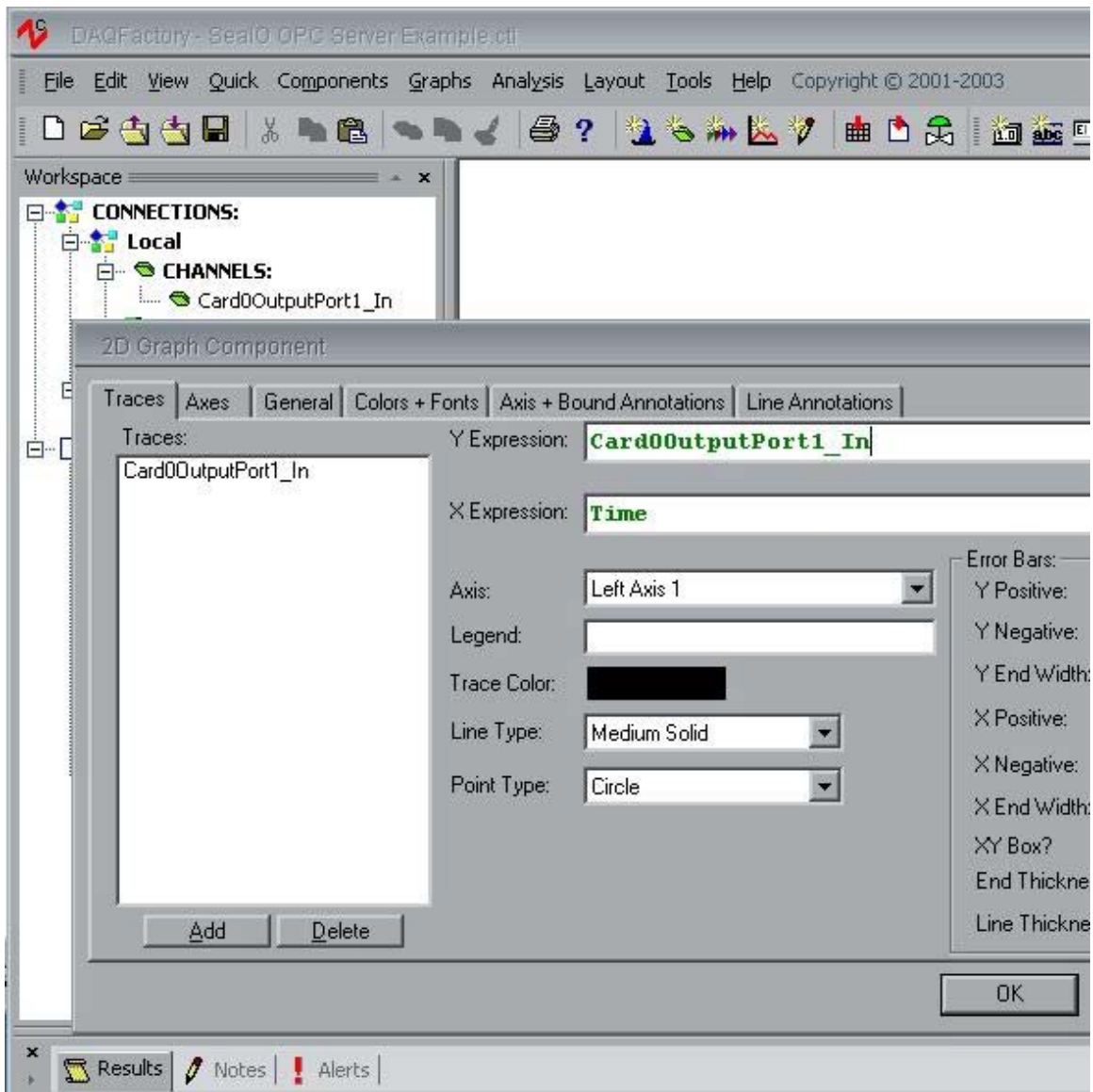
The screenshot displays the DAQFactory software interface. The main window is titled "DAQFactory" and includes a menu bar (File, Edit, View, Quick, Components, Graphs, Analysis, Layout, Tools, Help) and a toolbar. The "Workspace" panel on the left shows a tree view with "CONNECTIONS:" expanded to "Local", which contains "CHANNELS:" with "Card0OutputPort1_In" selected. Below this are "CONVERSIONS:" and "SEQUENCES:". Under "V:", there is a "PAGES:" section listing "Page_0" through "Page_9" and "Scratch".

The configuration window for "Card0OutputPort1_In" is open, showing the following settings:

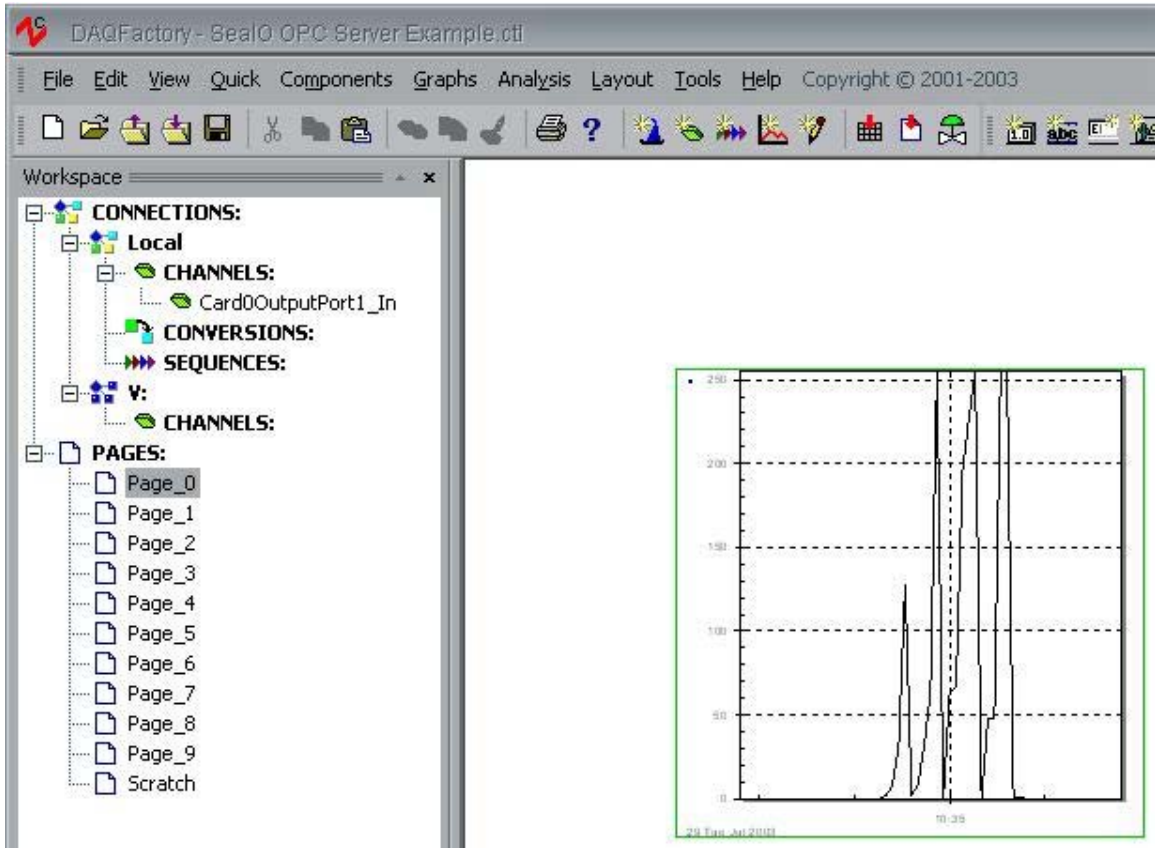
- Channel Name: Card0OutputPort1_In
- Device Type: OPC
- Device Number: 0
- I/O Type: A to D
- Channel #: 1
- Conversion: None
- Timing: 1 secs
- Offset: 0 secs
- OPC Specifier: ;SealIO OPC Server;8206.Card0.Output.Port.1
- Notes: (empty)

Buttons for "Display Graph" and "Display Table" are visible. Below the configuration window is a graph showing a signal waveform. The y-axis ranges from 0 to 250, and the x-axis shows time from 10:20 to 10:21 on 29 Tue Jul 2003. The graph displays a signal that is mostly flat at zero, with several sharp peaks reaching up to approximately 250.

5. Now add a graph component and edit the properties. You want to add the channel to the “Y Expression”.



6. Now you have a graph monitor your output port on your SeaIO device using the SeaIO OPC Server.



Summary:

In this application note we have shown how to use DAQ Factory with our SeaIO OPC Server to implement a powerful MMI. Using these tools such a system can be created without the need for extensive programming skills. And using the Sealevel board and SeaIO OPC Server software allows seamless integration of the MMI to the I/O.