OptoOPCServer

Features

- OPC-DA 2.0-compliant
- Monitors, configures, and controls SNAP PAC controllers and brains as well as Opto 22 legacy devices
- Provides fast, efficient handling of communications between multiple OPC clients and Opto 22 devices

Description

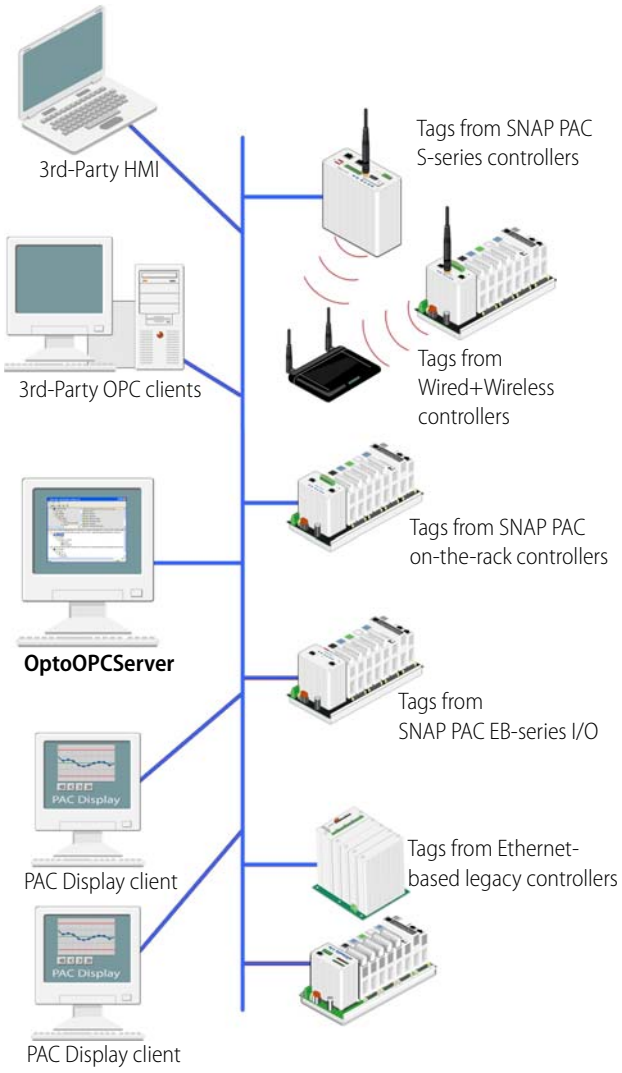
OptoOPCServer™, part of the PAC Project™ software suite, is an OPC-DA 2.0-compliant server that connects your OPC client software with Opto 22 SNAP PAC System and legacy controllers and I/O units. Through OptoOPCServer, your HMI and SCADA applications can monitor, configure, and control these Opto 22 systems:

- SNAP PAC S-series standalone controllers*
- SNAP PAC R-series on-the-rack controllers*
- SNAP PAC EB-series brains*
- SNAP PAC SB-series brains connected to SNAP PAC S-series controllers
- Ethernet-based legacy controllers and I/O units, such as the SNAP-LCE and SNAP Ultimate, SNAP Ethernet, and SNAP Simple I/O, as well as Ethernet-based FactoryFloor™ *mistic* controllers, such as the SNAP-LCM4, M4, M4RTU, and M4IO (M4SENET-100 Ethernet adapter card required).

* Includes Wired+Wireless™ models

OptoOPCServer is designed for fast, efficient handling of communications between multiple OPC clients and Opto 22 devices. Because OptoOPCServer uses a report-by-exception method of communicating with clients, network traffic on industrial automation and manufacturing networks is kept to a minimum. On the client side, OptoOPCServer consolidates tasks from multiple OPC clients, recognizing identical requests and avoiding duplication.

OptoOPCServer is strongly recommended for multiple seats of PAC Display. It is the critical component for scaling up a PAC Display™ monitoring system for optimum performance.



System Architecture

Part Numbers

Part	Description
OPTOOPCSERVER	OptoOPCServer software and documentation on CD, plus printed documentation

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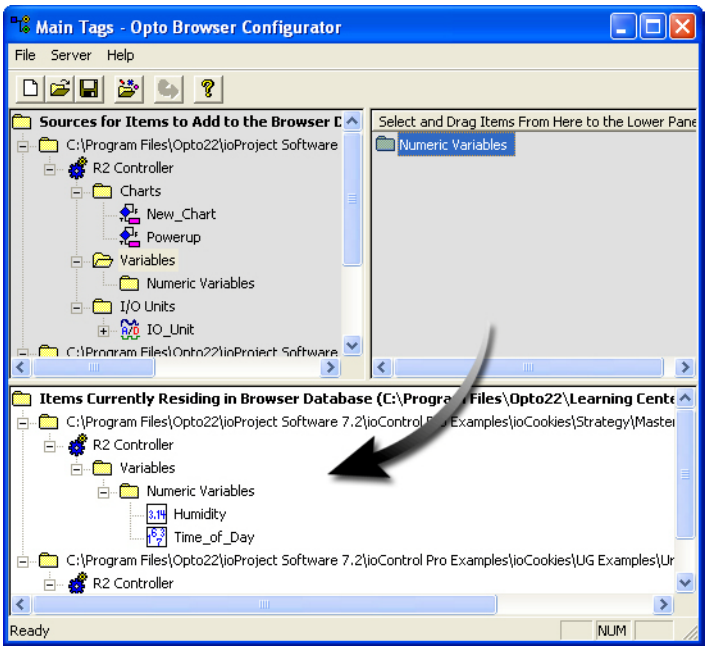
OptoOPCServer



Opto Browser Configurator provides an intuitive drag-and-drop interface for building OPC browser databases from Opto 22 control and configuration files.

OptoOPCServer includes these software components:

- Opto Browser Configurator, an easy-to-use application that creates an OPC browser database from Opto 22 PAC Control strategies, ioControl and OptoControl strategies, and I/O unit configuration files
- OptoOPCServer, which runs on a workstation or dedicated network server
- OptoOPCServer debug monitor, for viewing the activity between OPC clients, OptoOPCServer, and Opto 22 devices.

Requirements

To use OptoOPCServer with your PC, you must have the following minimum configuration:

- A computer with at least the minimum processor and memory required for your version of Microsoft Windows, and Ethernet capability. Additional memory may be required for some configurations.
- VGA or higher resolution monitor (Super VGA recommended). Minimum size: 800x600 with small fonts.
- Mouse or other pointing device
- Installed Windows printer (optional)
- Microsoft Windows 7 Professional (32-bit or 64-bit), Windows Vista® Business (32-bit), or Windows XP Professional (32-bit, with Service Pack 2 or higher)

  NOTE: Microsoft Windows server and embedded Windows operating systems are not supported.

- If your PAC Display Pro project accesses an M4-series controller (such as a SNAP-LCM4 or M4RTU) via an Ethernet connection, controller firmware version R4.1a or newer is required. In addition, in order to access strings or string tables, controller firmware R4.1d or newer is required.
- At least 19 MB of available hard drive space.

How to Obtain OptoOPCServer

Purchase OptoOPCServer either separately or as part of the complete PAC Project Professional software suite. You can download OptoOPCServer from our website, www.opto22.com.

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More About Opto 22

Products

Opto 22 develops and manufactures reliable, flexible, easy-to-use hardware and software products for industrial automation, energy management, remote monitoring, and data acquisition applications.

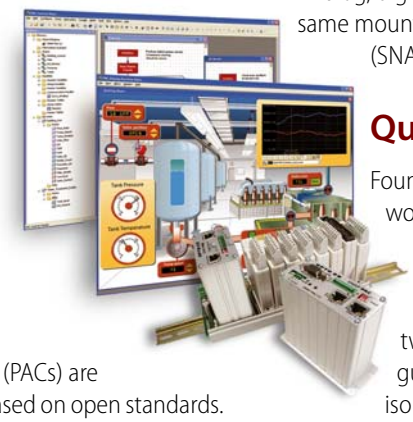
OptoEMU Energy Management System

The easy-to-use OptoEMU Sensor monitors electrical energy use in your facility and delivers detailed, real-time data you can see and analyze. The Sensor can monitor energy data from pulsing meters, electrical panels or subpanels, and equipment. View energy data online using a software service or incorporate the data into your control system for complete energy management.

SNAP PAC System

Designed to simplify the typically complex process of selecting and applying an automation system, the SNAP PAC System consists of four integrated components:

- SNAP PAC controllers
- PAC Project™ Software Suite
- SNAP PAC brains
- SNAP I/O™



SNAP PAC Controllers

Programmable automation controllers (PACs) are multifunctional, modular controllers based on open standards.

Opto 22 has been manufacturing PACs for over two decades. The standalone SNAP PAC S-series and the rack-mounted SNAP PAC R-series both handle a wide range of digital, analog, and serial functions for data collection, remote monitoring, process control, and discrete and hybrid manufacturing.

SNAP PACs are based on open Ethernet and Internet Protocol (IP) standards, so you can build or extend a system easily, without the expense and limitations of proprietary networks and protocols.

PAC Project Software Suite

Opto 22's PAC Project Software Suite provides full-featured, cost-effective control programming, HMI (human machine interface) development and runtime, OPC server, and database connectivity software for your SNAP PAC System.

Control programming includes both easy-to-learn flowcharts and optional scripting. Commands are in plain English; variables and I/O point names are fully descriptive.

PAC Project Basic offers control and HMI tools and is free for download on our website, www.opto22.com. PAC Project Professional, available for separate purchase, adds OptoOPCServer, OptoDataLink, options for controller redundancy or segmented networking, and support for legacy Opto 22 serial *mistic*™ I/O units.

SNAP PAC Brains

While SNAP PAC controllers provide central control and data distribution, SNAP PAC brains provide distributed intelligence for I/O processing and communications. Brains offer analog, digital, and serial functions, including thermocouple linearization; PID loop control; and optional high-speed digital counting (up to 20 kHz), quadrature counting, TPO, and pulse generation and measurement.

SNAP I/O

I/O provides the local connection to sensors and equipment. Opto 22 SNAP I/O offers 1 to 32 points of reliable I/O per module, depending on the type of module and your needs. Analog, digital, and serial modules are all mixed on the same mounting rack and controlled by the same processor (SNAP PAC brain or rack-mounted controller).

Quality

Founded in 1974, Opto 22 has established a worldwide reputation for high-quality products. All are made in the U.S.A. at our manufacturing facility in Temecula, California. Because we do no statistical testing and each part is tested twice before leaving our factory, we can guarantee most solid-state relays and optically isolated I/O modules for life.

Free Product Support

Opto 22's California-based Product Support Group offers free, comprehensive technical support for Opto 22 products. Our staff of support engineers represents decades of training and experience. Support is available in English and Spanish by phone or email, Monday–Friday, 7 a.m. to 5 p.m. PST.

Additional support is always available on our website: how-to videos, OptoKnowledgeBase, self-training guide, troubleshooting and user's guides, and OptoForums.

In addition, hands-on training is available for free at our Temecula, California headquarters, and you can register online.

Purchasing Opto 22 Products

Opto 22 products are sold directly and through a worldwide network of distributors, partners, and system integrators. For more information, contact Opto 22 headquarters at 800-321-6786 or 951-695-3000, or visit our website at www.opto22.com.

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