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

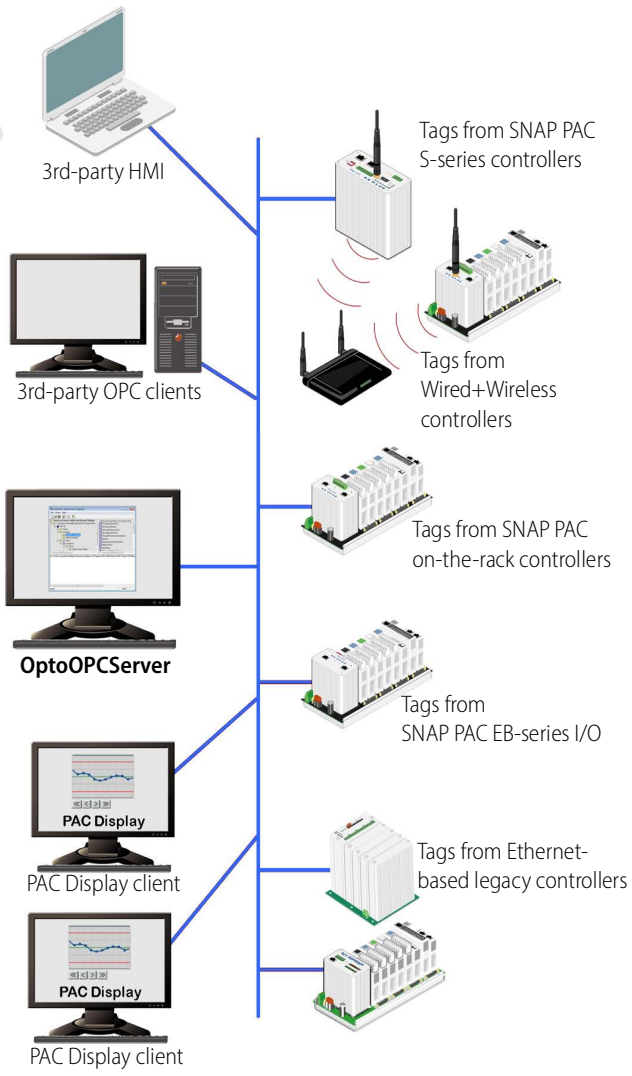
OptoOPCServer™, part of the PAC Project™ software suite, is an OPC-DA 2.0-compliant server that connects your OPC client software with Opto 22's *groov* EPIC and SNAP PAC systems, and legacy controllers and I/O units. Through OptoOPCServer, your HMI and SCADA applications can monitor, configure, and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

- *groov* EPIC processors
- 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*, M4RTU8, and M4IO* (M4SENET-100 Ethernet adapter card required).

** Indicates an obsolete product.*

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

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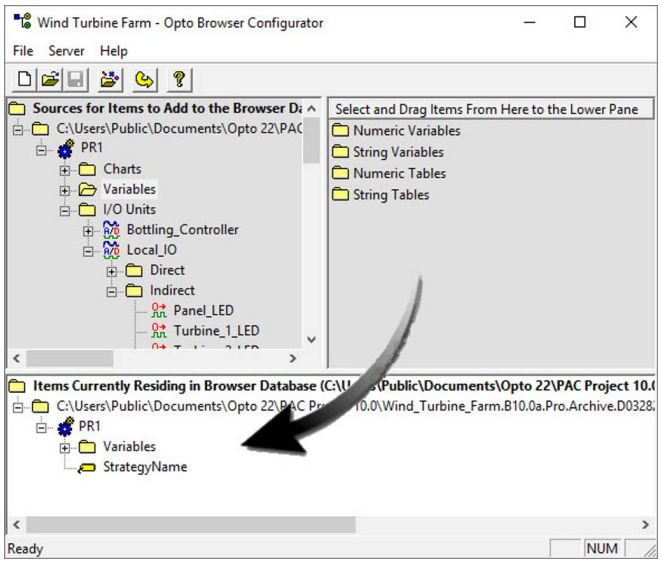

OptoOPCServer includes these software components:

- Opto Browser Configurator, easy-to-use application with an intuitive drag-and-drop interface 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.

SYSTEM REQUIREMENTS

To use OptoOPCServer with your PC, you must have:

- Computer operating system:
  - Recommended: Microsoft Windows® 11 (Professional or Enterprise)
  - Minimum: Microsoft Windows® 10 (Professional or Enterprise)
  - Microsoft .NET Framework 4.8 or higher must be installed
  - (OptoOPCServer and OptoDataLink) Windows Server® 2025, 2022, 2019, and 2016

  NOTE: *Ensure you use the latest 64-bit version of the operating system and keep it up to date. PAC Project cannot be installed on Windows XP or older Windows operating systems. Other versions of Windows operating systems and embedded Windows operating systems are not supported.*

- Processor (CPU):
  - Recommended: Intel® Core™ i7 / AMD® Ryzen™ 7 at 3.0 GHz or higher
  - Minimum: Intel® Core™ i5 / AMD® Ryzen™ 5 at 2.0 GHz or higher
- Memory (RAM):
  - Recommended: at least 16 GB (or more if paging occurs)
  - Minimum: 16 GB
- Storage:
  - Recommended: 20 GB or more of free disk space and Solid State Drive (SSD) for significantly faster file read/writes
  - Minimum: at least 10 GB of free disk space and 7200 RPM (or faster) Hard Disk Drive (HDD)
- Display monitor:
  - Recommended size: 1280 × 720 or higher
  - Minimum size: 800 x 600 with small fonts
- Networking capability
- Mouse or other pointing device
- (Optional) Installed Windows printer
- 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.

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 at www.opto22.com.

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