OptoDataLink

Features

- ⬂ Integrates Opto 22 SNAP PAC controllers and brains with databases and other enterprise business systems
- ⬂ Creates data conduits between multiple controllers, databases, and other systems
- ⬂ Provides easy setup and configuration, with no need to recreate control strategy tagnames

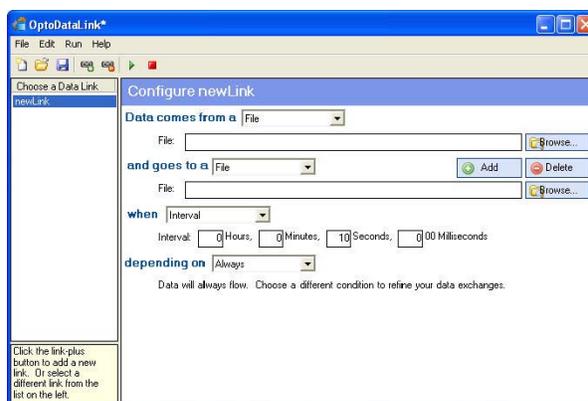**OptoDataLink main window**

Description

OptoDataLink™ from Opto 22 is connectivity software for Microsoft® Windows® that collects data from an Opto 22 SNAP PAC industrial controller and other sources, and then sends that data to one or more destinations. OptoDataLink supports sending data to:

- **Databases,** including Microsoft SQL Server™ versions 2000 and 2005, MySQL® version 3.5, and Microsoft Access versions 2000 and 2003
  NOTE: A Microsoft Access 2007 database saved as an Access 2003 database can also be used.
- **SNAP PAC controllers and brains** (SNAP PAC serial brains communicate through SNAP PAC S-series controllers.)
- **ASCII text files**

Data can be sent to any of these destinations—or all of them— simultaneously. Applications that are well suited for OptoDataLink include data archival and data warehousing, as well as those where control system alarms need to be reported, acknowledged, and recorded at the enterprise level.

Ease of Use

OptoDataLink has several features that make it easy to use compared to competing data-link solutions.
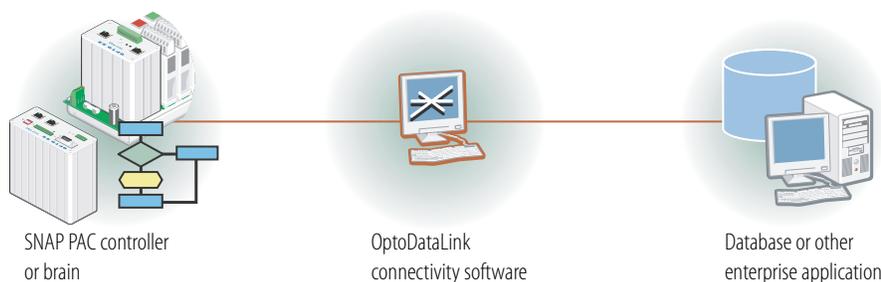
- OptoDataLink is part of Opto 22's PAC Project software and is integrated into the SNAP PAC System, so control system tags (tagnames) for OptoDataLink are created automatically when the control strategy is developed. This makes it unnecessary to recreate tagnames for variables, input/output (I/O) points, and other controller values.

- No human-machine interface (HMI) application needs to be configured or running, a common requirement for many competing data-link solutions. This advantage reduces system configuration, development time, capital expense, and maintenance.

OptoDataLink uses a simple, four-step form-based configuration interface to set up data connections. No experience with setting up technologies like ODBC or ADO.NET is required.

Part Number

Part	Description
OPTODATALINK	Database Connectivity Software

SNAP PAC controller or brain

OptoDataLink connectivity software

Database or other enterprise application

PAC Project Professional

OptoDataLink is part of Opto 22's **PAC Project Professional** software suite, and can also be purchased separately. PAC Project Professional also includes PAC Control for control programming, PAC Display for HMI development, OptoOPCServer for OPC 2.0-compliant clients, plus PAC Manager for configuration.

Compatibility with Opto 22 Products

OptoDataLink collects control data from the following Opto 22 SNAP PAC System controllers and brains (I/O processors):

- SNAP-PAC-S1, SNAP-PAC-S1-FM, SNAP-PAC-S1-W*, SNAP-PAC-S2, SNAP-PAC-S2-FM, SNAP-PAC-S2-W*, SNAP-PAC-R1, SNAP-PAC-R1-FM, SNAP-PAC-R1-W*, SNAP-PAC-R2, SNAP-PAC-R2-FM, and SNAP-PAC-R2-W* programmable automation controllers

- SNAP-PAC-EB1, SNAP-PAC-EB1-FM, SNAP-PAC-EB1-W*, SNAP-PAC-EB2, SNAP-PAC-EB2-FM, and SNAP-PAC-EB2-W* brains

- SNAP-PAC-SB1 and SNAP-PAC-SB2 brains connected to SNAP PAC S-series controllers

* Wired+Wireless™ device

OptoDataLink can also be used with older Opto 22 controllers and brains. See Opto 22 form 1705, the OptoDataLink *User's Guide*, for information on supported hardware and software.
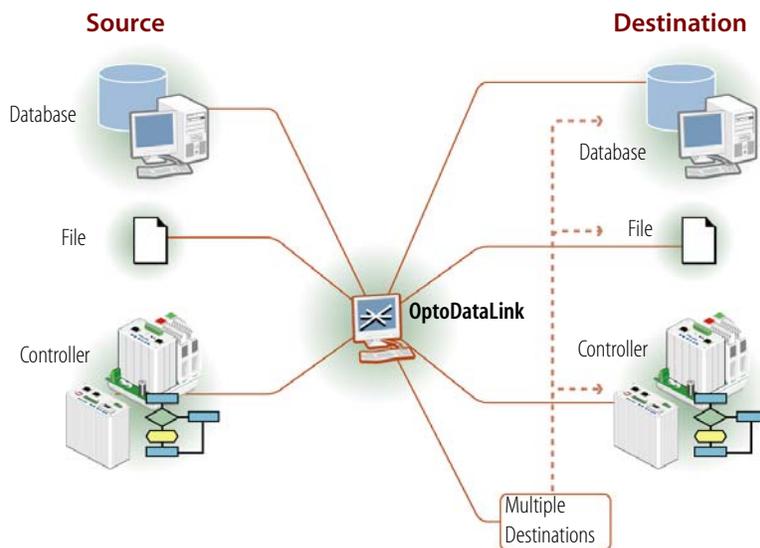
OptoOPCServer Software

If OptoDataLink as well as other software applications must communicate with the same Opto 22 controller, Opto 22

recommends that you use **OptoOPCServer** software to optimize controller/application communications. OptoOPCServer must be installed on the same PC as OptoDataLink. OptoOPCServer is included in Opto 22's PAC Professional software suite and can also be purchased separately.

System Requirements

Computer

- A computer with at least the minimum processor required for your version of Microsoft Windows (single or dual core, 1 GHz Pentium®-class or better recommended) and Ethernet capability.

- 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 Vista® Business (32-bit), Windows XP (with Service Pack 2 or higher), or Windows 2000® (with Service Pack 4) workstation operating system. Microsoft Windows server, 64-bit versions of Windows workstation, and embedded operating systems are not supported.

- At least 1 GB RAM for Windows Vista, or at least 512 MB for Windows XP or Windows 2000

- Microsoft .NET Runtime 1.1 or 2.0

OptoDataLink flexibly and simultaneously connects multiple data sources and destinations.
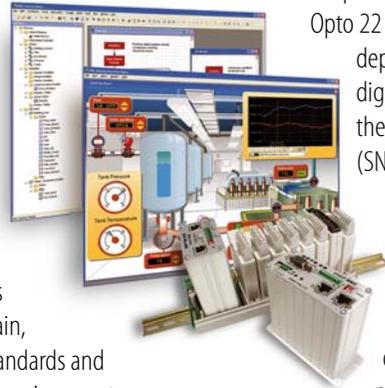
More About Opto 22

Products

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

SNAP PAC System

Designed to simplify the typically complex process of understanding, selecting, buying, 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, multidomain, modular controllers based on open standards and providing an integrated development environment.

Opto 22 has been manufacturing PACs for many years. The latest models include 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 and are equally suited to 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 without the expense and limitations of proprietary networks and protocols.

PAC Project Software Suite

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

These fully integrated software applications share a single tagname database, so the data points you configure in PAC Control™ are immediately available for use in PAC Display™, OptoOPCServer™, and OptoDataLink™. 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 Ethernet link 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, serial, and special-purpose 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 and with over 85 million devices sold, 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 Product Support Group offers free, comprehensive technical support for Opto 22 products. Our staff of support engineers represents decades of training and experience. Product support is available in English and Spanish, by phone or email, Monday through Friday, 7 a.m. to 5 p.m. PST.

Free Customer Training

Hands-on training classes for the SNAP PAC System are offered at our headquarters in Temecula, California. Each student has his or her own learning station; classes are limited to nine students. Registration for the free training class is on a first-come, first-served basis. See our website, www.opto22.com, for more information or email training@opto22.com.

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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