

Data Collection Made Easy



www.bizwaredirect.com

AutomationDirect and BizWareDirect offer exceptional data collection software

AUTOMATIONDIRECT has teamed up with BizWareDirect to offer its customers data-collection and monitoring software for compatible **Direct**LOGIC PLCs, Think & Do v8.0 or Think & Do Live! WinPLCs, and Productivity3000 controllers. Previously, it was necessary to purchase an OPC/DDE server, write code or buy an HMI package to program, in order to collect data from AUTOMATIONDIRECT controllers.

BizWareDirect's data collection software makes it simple and cost effective to collect valuable data to enable you to make better business decisions. BizWareDirect offers software products, and a variety of engineering services to assist manufacturers and utilities to automate, monitor, and collect data from their processes through the most productive and cost-effective means possible.

DataWorx™: Connect Ethernet-enabled controllers for data collection

DataWorx packages easily connect your Ethernet-enabled **Direct**LOGIC PLCs, Think & Do v8.0 or Live! WinPLCs, or Productivity3000 controllers to standalone PCs or network servers for simple data logging. Collect data without the need for special PC programming or any 3rd party HMI, SCADA, or DAQ software application.

Applications include:

- Log valuable production data to networked PCs or file servers for statistical process-control decision making.
- Archive test data in a secure server file location with built-in date and time stamping features to satisfy quality assurance or audit procedures.
- Use in data acquisition applications as source of content for historical trending to be used by ERP or other higher-level business system applications.

Three versions are available:

- DataWorx PLC for Ethernet-enabled **Direct**LOGIC PLCs
- DataWorx WinPLC for Think & Do-based WinPLCs
- Dataworx P3K for the Productivity3000 controller

DataLynx™: Remote data collection over modems

DataLynx is an inexpensive data logging and storage package for remotely located PLCs or other devices that support Modbus and a modem connection. DataLynx can collect data from remote locations or relay data from multiple locations back to a single location to be stored. The software offers easy setup with no programming or SCADA system required.

Applications include:

- Log important data from remote processes, where Ethernet connections are unavailable, using a standard phone line.
- Monitor process data in other states and cities for trending history.
- Collect, and relay back to the plant, process history from machines in multiple locations for preventative maintenance and historical usage.

| DataLynx vs. DataWorx Comparison | |
|--|-----------------------|
| DataLynx | DataWorx |
| • Modbus RTU / modem | • Ethernet |
| • Polling (dials & polls) | • Report-by-exception |
| • No PLC programming | • Uses PLC RX/WX |
| • No third-party programming software required | |

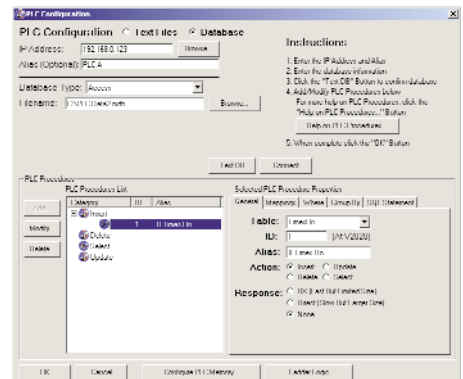
DataNET™: Instant access to operational data from anywhere

DataNet OPC easily connects your PLC or other OPC enabled device to a live Web page. The data is then available for viewing, logging and printing reports. The data is displayed in an easy to read table format with color coded text (for alarming) and with absolutely no HTML programming required.

- Quickly determine the status of plant operations at any given moment, with no time or distance restraints.
- Log and archive data to be used as a source content for historical trend analysis.
- Archive data with built-in date and time stamping features to fulfill quality assurance procedures or to create reports for auditing processes.
- Log valuable production data for Statistical Process Control decision making.

BizWareDirect DataWorx PLC Professional software provides database access to collected data

DataWorx PLC Professional is an additional product offered by BizWareDirect that collects data from **Direct**LOGIC PLCs, Think & Do v8.0 or Think & Do Live! WinPLCs and other PLCs with the added feature of being able to store information into a database using SQL statements. The user can perform database operations such as storing PLC/WinPLC data and returning queries to the PLC/WinPLC. The user may configure database connectivity and operations in an easy to use GUI (as shown). Currently DataWorx PLC Professional supports Access and Microsoft SQL Server as well as ODBC connectivity. DataWorx PLC Professional is available through BizWareDirect. For more information, visit www.bizwaredirect.com or call 770-886-5878.



DataWorx - Data Collection over Ethernet

DataWorx software: Connect Ethernet-enabled controllers for easy data collection at an affordable price

What is it?

DataWorx Software packages easily connect your Ethernet-enabled **DirectLOGIC** PLCs, Think & Do v8.0 or Think & Do Live! WinPLCs, or Productivity3000 controllers to stand-alone PCs or network servers for simple data logging. This means that any PC or server on the network can receive valuable controller data without the need for special PC programming or any 3rd party HMI, SCADA, or DAQ software application. DataWorx is easy to set up and use, and is priced right. Without a doubt, DataWorx will save you both time and money.

NEW! With the DataWorx P3K software, you can now easily connect your Productivity3000 system to a Microsoft Access, SQL or ODBC compatible database server.

How do I use it?

Simply install the DataWorx software on a PC or file server on the same targeted Ethernet PLC network. Next, enable the controller logic to write data to your choice of delimited text files or CSV files onto the networked PCs or a file server.

Benefits of DataWorx

- Easy setup
- No SCADA software required
- At 96 bytes per device, store unlimited amounts of data
- Can receive data from an unlimited number of **DirectLOGIC** PLCs, Think & Do v8.0 or Think & Do Live! WinPLCs, or Productivity3000s
- **DirectLOGIC** PLCs, Think & Do v8.0 or Think & Do Live! WinPLCs, or Productivity3000s have complete control of storing the data
- **DataWorx P3K** Software connects any networked Productivity3000 system to a supported database.

Applications

- Log valuable production data to networked PCs or file servers for Statistical Process Control decision making.
- Archive test data in a secure server file location with built-in date/time stamping features to satisfy quality assurance or audit trailing procedures.
- Use in data acquisition applications as source content for historical trending to be used by higher level business system applications.
- Transferring, updating and retrieving data into/from a network database.

DataWorx system requirements:

The PC hardware requirements for DataWorx include a Pentium II with 128 megabytes of RAM and at least 10 megabytes of hard disk space free. The Server application can run on Windows 2000/XP/Vista. The Monitor application can run on Windows2000/ XP/Vista.

Product line-up

DataWorx PLC Software

Works with H0-ECOM/ECOM100, H2-ECOM(-F)/ECOM100, or H4-ECOM(-F)/ECOM100 Ethernet modules

PC-DATPLC-1 <--->

Support for one **DirectLOGIC** PLC (with HX-ECOM (100) module installed)

PC-DATPLC-UN <--->

Support unlimited **DirectLOGIC** PLCs (with HX-ECOM (100) modules installed)

DataWorx WinPLC Software

Works with H2-WPLC3-EN CPU

PC-DATWINPLC-1 <--->

Support for one Think & Do v8.0 or Think & Do Live! WinPLC

PC-DATWINPLC-UN <--->

Support unlimited Think & Do v8.0 or Think & Do Live! WinPLC

DataWorx P3K Software

Works with P3-550 CPU

PC-DATP3K-1 <--->

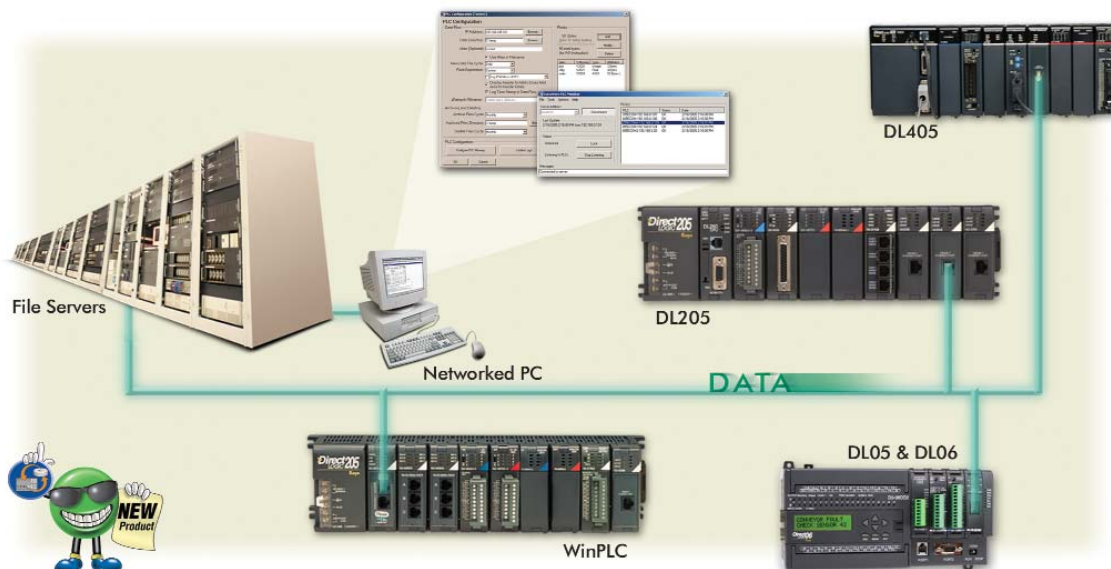
Support for one Productivity3000 system

PC-DATP3K-UN <--->

Supports unlimited Productivity3000 systems

PC-DATP3K-UPG <--->

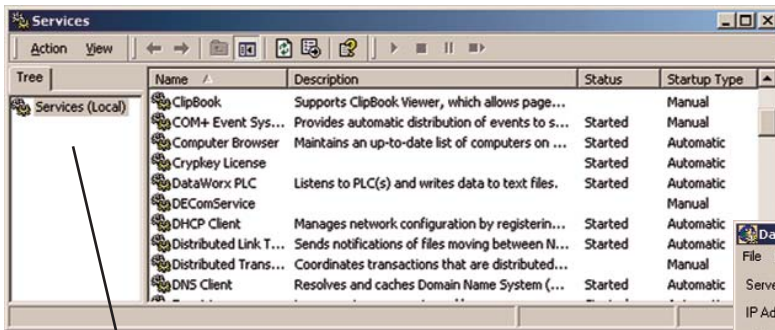
Upgrade from a single license to unlimited



DataWorx PLC/WinPLC Server

The DataWorx software packages include a server application that runs as a Microsoft Windows "service". Running as a service means the DataWorx program runs whether or not anyone is presently logged in on the PC. Another advantage of the server running as a service is that the user does not need to manually

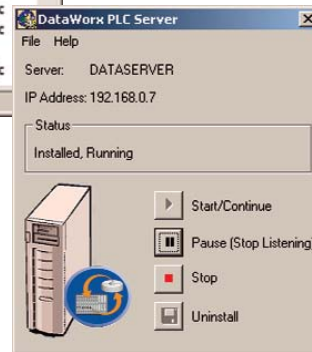
start the logging every time the computer restarts. The application "listens" for information from the PLC/WinPLC and logs the data into a file configured from the Monitoring application. The server is capable of collecting up to 96 bytes of data from an unlimited number of PLCs/WinPLCs.



Identifies the various services that are part of the PC

Running as a Windows service

DataWorx is equipped with an easy-to-use graphical interface to start, stop, or pause services. It also provides a very simple way to install or uninstall the service.

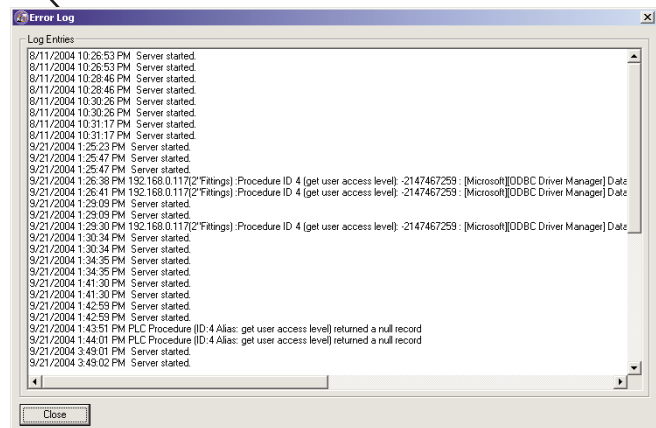


Graphical Interface to control the services

Diagnostic Error Logging

Error log

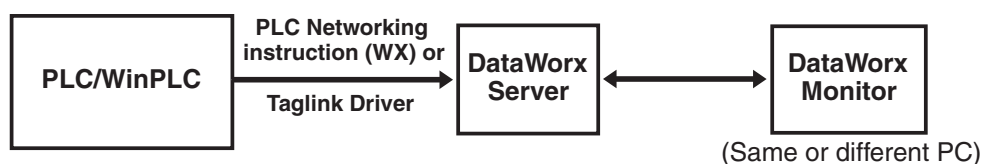
The Server has a useful Diagnostic Error Log window to help with troubleshooting the Server if a problem arises. The Error Log shows the status of the Server. The Error Log indicates whether the Server is started, stopped, or paused, and if the data received from the PLC/WinPLC matches the data configured in the Server.



RBE (Report by Exception) technology

RBE technology is what makes DataWorx software unique. Rather than the usual data collection through polling PLCs/WinPLCs, RBE technology makes the Server "listen" for data that has changed before it stores the information. The PLC/WinPLC sends data ONLY when needed. The common method of collecting data by continuous polling adds a lot of network traffic, causes the

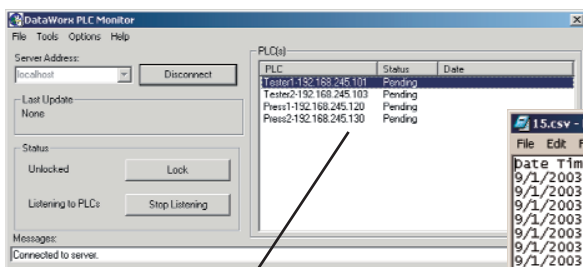
CPU utilization to dramatically increase, and in most applications, requires a dedicated PC. In contrast, the RBE method gives the PLC/WinPLC complete control to store data to a networked PC or file server hard drive and store the data locally if the network is down.



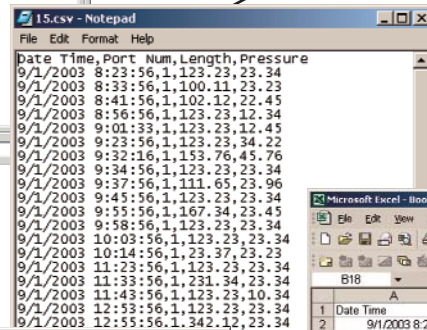
DataWorx PLC/WinPLC Monitor

The Monitor application included in the DataWorx package configures the server's file creation cycle, and PLC/WinPLC listings. The Monitor also allows the user to view or save the data files stored on the server. Files can be opened and viewed in

Notepad, Excel, or another chosen program. The user may select to create files on a daily, monthly, or yearly basis. The Monitor application is able to conveniently run from any PC that is networked with the server.

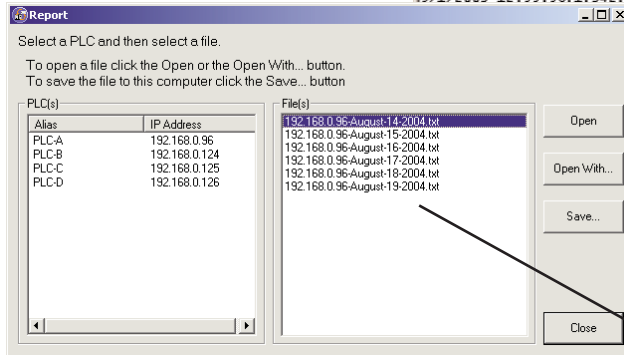
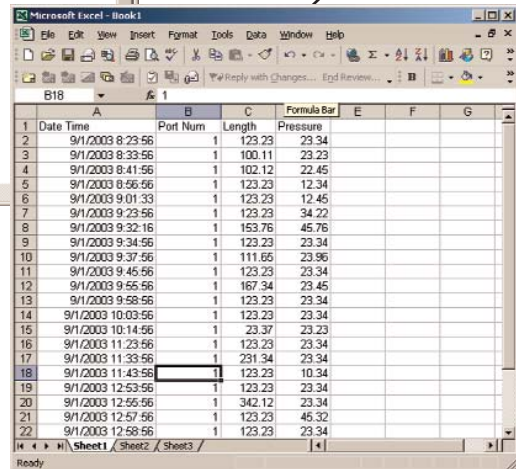


DataWorx Monitor allows viewing of saved files on the server



Data viewed in Notepad

Data viewed in Excel



PLC Configuration screen

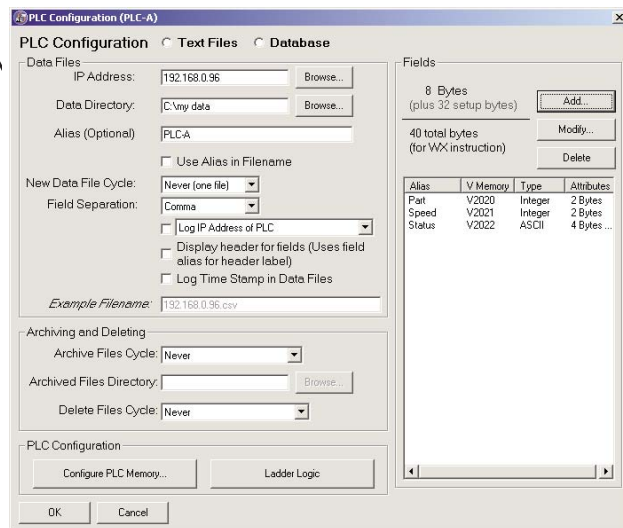
View the various reports that are stored on the server for each PLC/WinPLC

Configuration

Using the Monitor application, users can configure the server to log data to the server's hard drive in a comma or tab delimited text file. Users can also include a date and time stamp in the file, and an alias for each data item sent. The alias can be used as the file's header.

Archiving

The server can be configured to archive the log files into a zip file that can be copied to an archive directory for easy management. In the directory, files can be deleted automatically according to the parameters set by the user. Archiving can occur daily, monthly, or yearly as needed.



DataWorx Productivity3000 Server

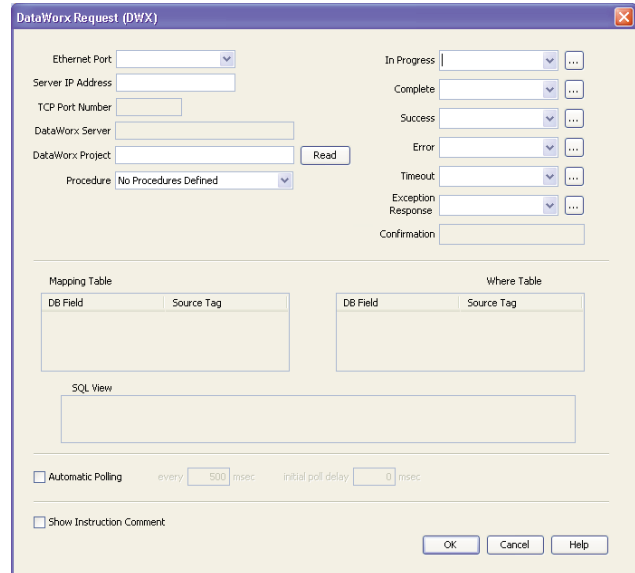
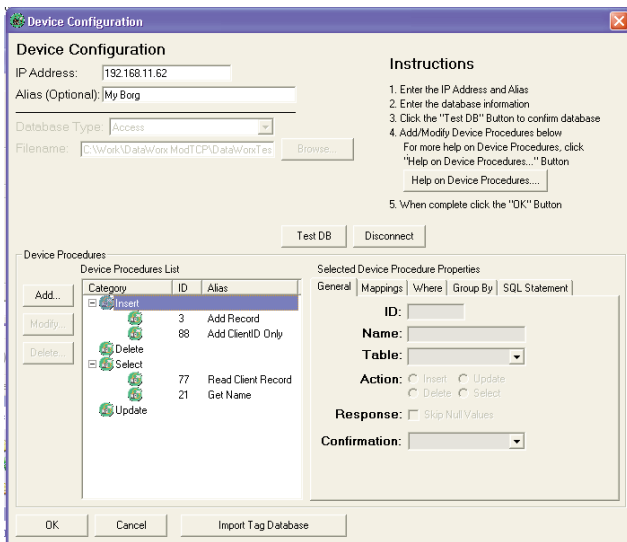
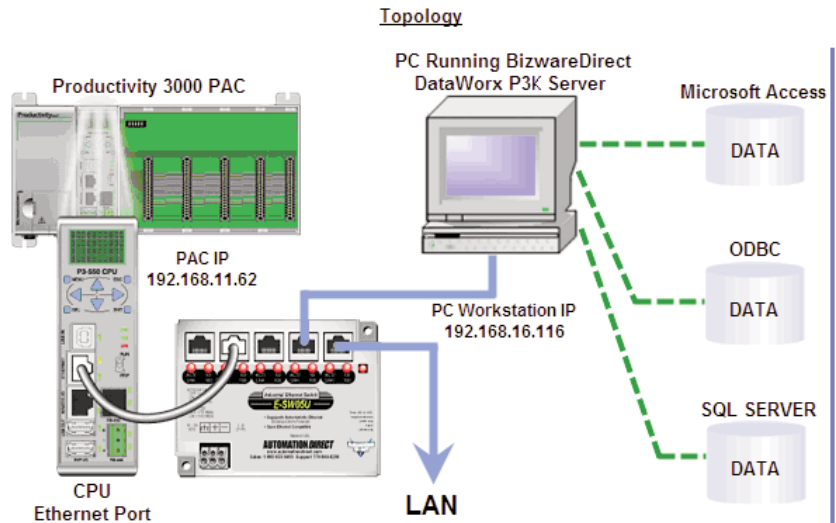
The DataWorx P3K server software maximizes the value of your industrial data by allowing you to collect data and connect your Productivity3000 system to networked database servers. Collect real-time data from the plant floor and store it into a standard Microsoft Access, SQL server or ODBC compatible database. The

unique report-by-exception technology allows direct communication between the Productivity3000 and the database(s). It gives control of the data logging and storage to the CPU so it can send data only when needed, greatly reducing the amount of network traffic.

Connect your Productivity3000 to your Enterprise system

What is it?

DataWorx P3K gives you an inexpensive solution for connecting your Productivity3000 controller to enterprise systems by providing direct database interaction. Productivity3000 is able to conduct its own database operations, so records are always accurate and up-to-date. DataWorx P3K connects people to the plant, putting valuable information in the hands of those who need it to make crucial decisions.

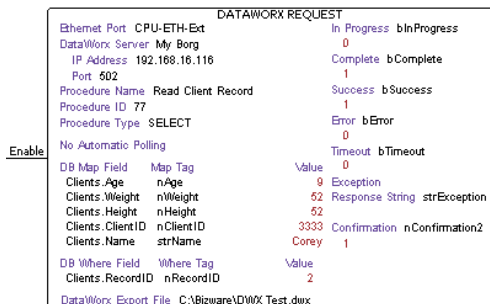


Benefits of DataWorx P3K

- Makes industrial data directly and readily available to those who need it to make organizational decisions
- Allows data to flow freely between plant floor and your IT enterprise system
- Report-by-exception technology eases network traffic
- Gives PAC complete control over data storage and retrieval
- Easy installation, no database programming necessary
- No SCADA system needed
- Store unlimited amounts of data

Built-in Ladder Instruction

The Productivity3000 has incorporated a DataWorx instruction to simplify the configuration and data transfer between the controller and enterprise network.



Practical Applications

- Enable your industrial devices to track plant-floor progress and maintain a precise inventory to increase efficiency and accuracy.
- Store, set and change recipes to improve reliability in operations using multiple formulas and set-points.
- Log valuable production data into a data base for convenient storage, easy retrieval and organized displays.
- Archive test data in a secure database with built-in date/time stamping features to satisfy quality assurance or audit procedures.