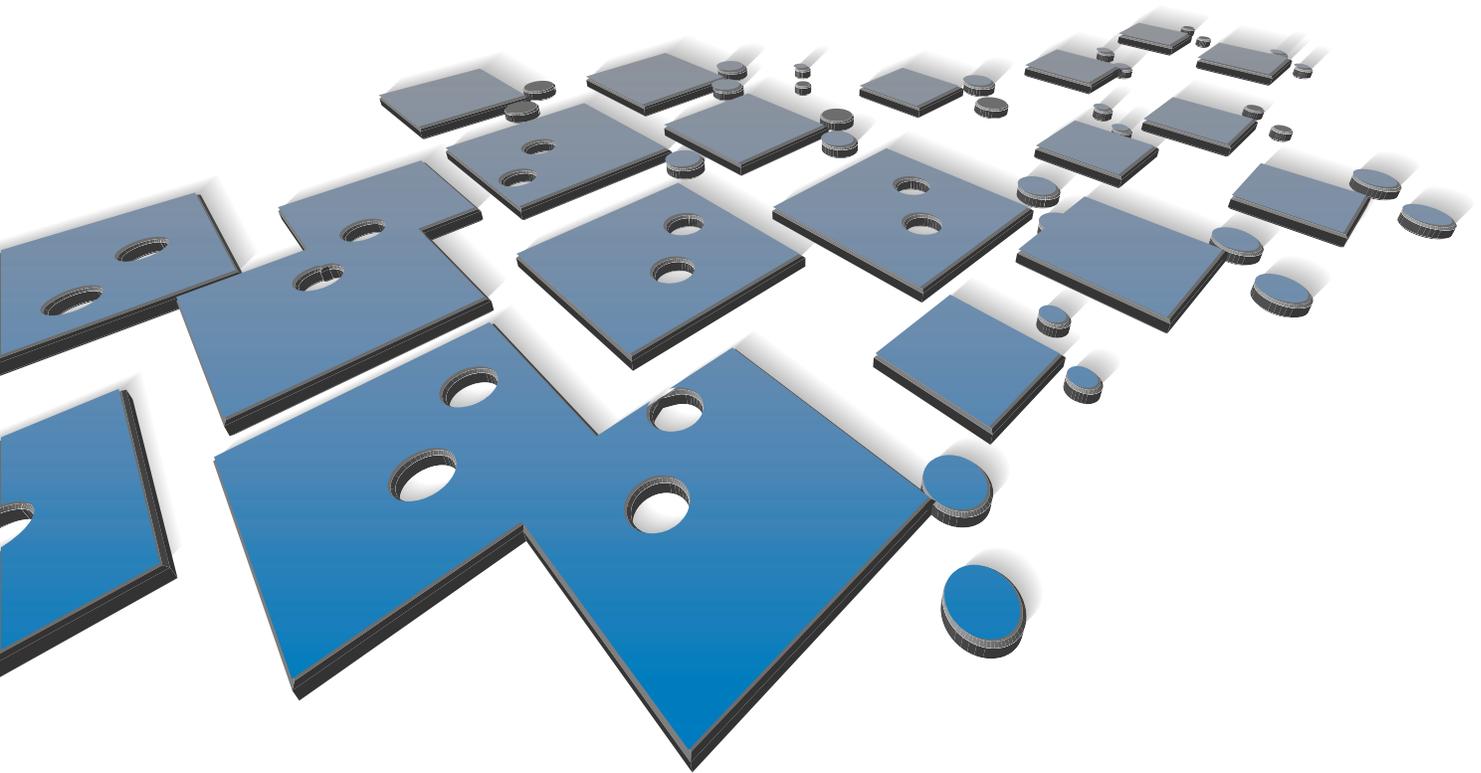


# Product Catalog

March 2001



OPC Foundation publishes the OPC product catalog two times per year. Single copies are available from OPC Foundation upon request.

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1st Printing	October 1998
2nd Printing	March 1999
3rd Printing	September 1999
4th Printing	March 2000
5th Printing	September 2000
6th Printing	March 2001

OPC is a Registered Trademark of OPC Foundation.

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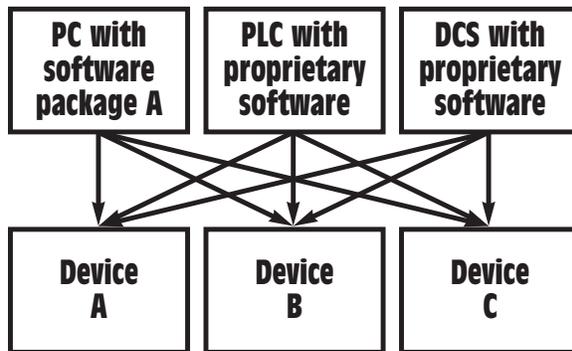


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## Introduction *(Statement of the problem)*

The use of microprocessors has proliferated in manufacturing plants, and they often do not work together. Application software should readily communicate with digital plant-floor devices as well as other applications, but this is not often the case. Making these systems work together is the most pressing need of process manufacturers. The problem has become more acute than network connectivity, diverse operating systems, and not-so-open “open systems” that are supposed to facilitate interoperability.

A key reason for this problem is that interfaces are not standard. Proprietary systems that don't communicate among each other are fairly common. Hardware and software choices for process and industrial manufacturers are sharply reduced because their application suppliers provide limited connectivity.

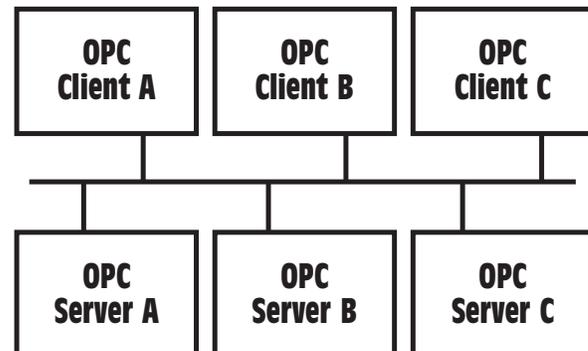


In the absence of any standard, vendors have developed proprietary hardware and software solutions. All process-control and information systems on the market today have proprietary techniques, interfaces, and APIs (Application Programming Interfaces) in order to access the information that they contain. The cost of integrating the different systems and the long-term maintenance and support of an integrated environment can be significant. Custom drivers and interfaces can be written, but the variety increases rapidly because of the thousands of different types of control devices and software packages that need to communicate. This proliferation of drivers exacerbates certain problems, such as inconsistencies among different vendors' drivers, hardware features that are not universally supported, hardware upgrades that can wreck an existing driver, and access conflicts. In the last case, two applications generally may not be able to access the same device at the same time because they use independent drivers. Perhaps worse, a driver may not be available

for a particular device application or inter-application combination, limiting End Users' options or forcing them to have one written (and debugged).

For a typical supervisory-control software developer, as much as 25-30% of engineering development time is spent writing drivers. Every time a key supplier comes out with a new controller, all software developers have to write a new driver.

Application software suppliers spend too much money developing and maintaining proprietary interfaces, adding to end-user costs and contributing nothing to solve the problem of getting a variety of systems to work together. Application users are, in a sense, controlled by their application software suppliers.



The solution is having a standard that provides real plug-and-play software technology for process control and factory automation where every system, every device and every driver can freely connect and communicate. Having such a standard makes possible the prospect of totally seamless, truly open and easy enterprise-wide communications between systems and devices, from plant floor to MIS (Management Information System) and beyond.

The name of that standard is OPC (The letters O-P-C originally stood for OLC — Object Linking and Embedding — for Process Control. OLE has since been restructured from object-oriented to object-based and renamed ActiveX ). With OPC in place, everything is set to clear away the confusion and high cost of the multiple proprietary servers, drivers, and interfaces that were necessary for systems to communicate in the past. OPC will bring the same benefits to industrial hardware and software that standard printer drivers brought to word-processing.

*OPC will bring the same benefits to industrial hardware and software that standard printer drivers brought to word-processing.*

## History

OPC (OLE for Process Control) is an industry standard created with the collaboration of a number of leading worldwide automation and hardware software suppliers working in cooperation with Microsoft. The organization that manages this standard is the OPC Foundation. The Foundation has over 150 members from around the world, including nearly all of the world's major providers of control systems, instrumentation, and process control systems. The OPC Foundation's forerunner — a task force composed of Fisher-Rosemount, Rockwell Software, Opto 22, Intellution, and Intuitive Technology — was able to develop a basic, workable, OPC specification after only a single year's work. A simplified, stage-one solution was released in August 1996.

The objective of the OPC Foundation is to develop an open, flexible, plug-and-play standard that allows end users to enjoy a greater choice of solutions, as well as sharply reducing development and maintenance costs for hardware and software suppliers.

The OPC Foundation has been able to work more quickly than many other standards groups because the OPC Foundation is simply building on an existing Microsoft standard. Other groups which have had to define the standards "from the ground up" have had a more difficult time reaching consensus as a result of the scope of their work.

Microsoft is a member of the OPC Foundation and has given strong backing to the organization. However, Microsoft has been careful to remain in the background and let the member companies with direct industry experience guide the organization's work.

One of the most valuable aspects of Microsoft's participation is the fact that it hosts an annual OPC Foundation meeting in Redmond, Washington (Microsoft Headquarters) to provide Foundation Members with a preview of coming developments in OLE/COM and other Microsoft technologies. Many Foundation Members are small companies and would not receive that kind of briefing from Microsoft if they were not Foundation Members.

End-Users are encouraged to join the OPC Foundation, and several manufacturers actively participate in the specification and technical review process. Both End-Users and Automation Suppliers benefit from having a standard. For every automation system installed today, there is a significant amount of time and money spent on integration. OPC ensures that automation systems can share information and interoperate with other automation and business systems across their plant or factory.

## What is it?

Based on Microsoft's OLE (now ActiveX), COM (component object model) and DCOM (distributed component object model) technologies, OPC consists of a standard set of interfaces, properties, and methods for use in process-control and manufacturing-automation applications. The ActiveX/COM technologies define how individual software components can interact and share data. Backed by Microsoft's NT technology, OPC provides a common interface for communicating with diverse process-control devices, regardless of the controlling software or devices in the process.

The goal of the standard is Plug-and-Play, a concept developed by Microsoft and a number of other companies a few years ago. By using a standard way of configuring computer hardware (and software interfaces) automatically, a device will easily connect to another and immediately work without the need for lengthy installation procedures or complex configuration. Instead of having to learn how to use 100 or more custom toolkits, users will only have to learn one set of tools, because all OPC drivers will work the same way. OPC's purpose is to compel the automation industry suppliers to push all device drivers toward a standard form. Essentially, OPC defines a common interface that permits interface development work to be performed once and then easily reused.

The OPC standard requires hardware suppliers to provide front-line data collection and distribution. They are the most familiar with how to access the device's internal data efficiently. These devices then become OPC servers, providing data to OPC client applications consistently. Application developers can then write code in any language deemed appropriate.

*Instead of having to learn how to use 100 or more custom toolkits, users will only have to learn one set of tools, because all OPC drivers will work the same way.*

## What is COM?

The Component Object Model provides standard interfaces and inter-component communications. Through COM, an application may use features of any other application object or operating system, or allow for software component upgrades without affecting the operation of the overall solution. COM can be used by developers and system integrators to create customized solutions. A binary standard, COM is generic and is the core of DCOM, ActiveX, and OLE technology.

## What is OLE?

Object Linking and Embedding is used to provide integration among applications, enabling a high degree of application compatibility, even among diverse types of information. OLE technology is based on COM, and allows for the development of reusable, plug-and-play objects that are interoperable across multiple applications (see accompanying OLE Automation definition). It also provides for reusable, component-based software development, where software components can be written in any language, supplied by any software vendor.

## What is OLE Automation?

OLE Automation and the underlying COM technologies were designed by Microsoft to allow components (written in C and C++) to be used by a custom program (written in Visual Basic or Delphi). This model provides a precise match for the needs of the process-control industry, with hardware developers writing software components in C and C++ for handling data access from a device. Through OPC, application developers can write code in any language necessary to request and utilize plant-floor data.

## What is DCOM?

The Distributed Component Object Model extends COM to networks (remote objects). It is a new, highly optimized protocol, where remote components appear to be local. DCOM was first released for Windows NT 4.0 in August 1996. Microsoft Java and VB Script support DCOM and ActiveX development. Other companies are developing versions of DCOM and ActiveX for non-Microsoft platforms.

## What is ActiveX?

ActiveX is an umbrella term of a broad range of technologies that used to be known as OLE Controls, all of which rely on COM. A renaming and restructuring of the OLE Controls technology, it is object-based rather than object-oriented. ActiveX is an open, integrated platform that lets developers and Web producers create portable applications and interactive content for the World Wide Web. It's open, cross platform, and is supported on Mac, Windows, and Unix systems.

## Benefits

### What is DDE?

OLE's predecessor, Dynamic Data Exchange, is a method of dynamically moving data among applications in the Microsoft Win32 application-programming interface (API). The DDE protocols send messages between applications that share data and use shared memory to exchange data. Applications can use the DDE protocol for one-time data transfer and for continuous exchanges in which applications send updates to one another as new data become available. Prior to OPC, hardware manufacturers that recognized the need for software connectivity to their hardware was limited in their ability to develop drivers—the choice was between DDE and a list of proprietary DDE derivatives. Selecting any of these had possible effects of limiting the user's choice of software or preventing the acceptance of the hardware.

OPC is analogous to electronic and pneumatic process instruments. In this analogy, process instruments are likened to today's software components. Electronic and pneumatic instruments each have a standard interface — 4-20 mA or 0-15 PSI. Customers could choose the right instrument from the right vendor to meet their unique requirements. The highly integrated digital control products introduced in the eighties and still largely installed today do not offer the End User this freedom of choice.

OPC provides a single, consistent, industry-standard interface that permits software suppliers to focus on adding new features to their software instead of developing long lists of proprietary hardware device drivers. The OPC standard has provided an environment in which device manufacturers will be encouraged to invest in the development of their own OPC servers knowing that the same server can be used by every software, HMI, PLC or DSC vendor. There is an incentive for device manufacturers to bring their inherent knowledge of the industrial networks to OPC server development to ensure that device performance is optimized.

The most obvious benefit is to the HMI vendors who, up until now, have had to invest significant resources in developing and maintaining proprietary drivers to all possible industrial networks.

In short summary, Microsoft's COM is a software architecture that allows applications to be built from binary software components. COM is the underlying architecture that forms the foundation for higher-level software services, like those provided by ActiveX. These services span various aspects of commonly needed system functionality, including compound documents, customer controls, inter-application scripting, data transfer, and other software interactions. For example, ActiveX and COM allow applications to share "objects," such as spreadsheets that are embedded in word-processing documents. When updates to the spreadsheet occur, ActiveX and COM ensures that they are automatically reflected in the word-processing document.

### Benefits

Asking what the business benefits of OPC are is like asking what the benefits of plug-and-play technology are to the computer industry. More choices, better access to process data, ease of plug-and-play operation, and efficient utilization of development resources are the main benefits of OPC technology.

OPC brings the value that comes with the use of standards, including reduced training costs, reduced custom development costs, and lower long-term maintenance costs. By design, OPC-compliant products work seamlessly with one another. With this plug-and-play approach, off-the-shelf components can be brought together efficiently to solve immediate requirements. In addition, long-term maintenance and upgrading can be done by removing and replacing individual components in a system without any work needed to "wire up" the new pieces.

*Asking what the business benefits of OPC are is like asking what the benefits of plug-and-play technology are to the computer industry.*

To illustrate the savings, imagine the increase in cost if every household appliance had its own type of wall plug. Eliminating customization drastically reduces the cost of an automation system by saving money during acquisition, installation, and maintenance.

With the introduction of OPC-compliant manufacturing automation products, users are provided their due right to select and implement systems comprised of best-in-class components without the pain of custom interfaces. This user benefit is sometimes referred to as "freedom of choice." For example, both Netscape and Internet Explorer can browse the web equally well, but people use the browser they like best. As a result of this freedom of choice, vendors will need to become more competitive and offer superior products and solutions to maintain their customers.

Besides freedom of choice, the user also has vendor independence, or "freedom from a proprietary lock." If the implemented control system is comprised of modules with proprietary interfaces, any customer who desires to upgrade any component function of the integrated whole is entirely dependent on the vendor. With OPC components, only the module of interest must be upgraded and not the entire system. The requirement to use the original vendor is eliminated. High-priced proprietary solutions (and their expensive after-sale support contracts) will yield to lower cost OPC-enabled alternatives.

## Benefits

Additionally, with Plug-and-Play components, other applications in addition to the original “clients” of the data servers may now request/transmit data without the need of a vendor gateway. The result is more data access to more interested clients with less complication.

Using OPC for connectivity promotes higher quality solutions. OPC interface products are built once and reused many times; hence, they undergo continuous quality control and improvement. The components must constantly prove themselves when products from many vendors interact with them. This approach contrasts the traditional “build once, use once” interfacing approach, and encourages proven, bug-free products.

*To illustrate the savings, imagine the increase in cost if every household appliance had its own type of wall plug.*

OPC enables companies to build robust and durable automation solutions quickly, choosing the right components for their specific requirements. It decreases the up-front costs and reduces long-term costs of automation and control systems. The beauty of OPC is that the ‘client’ system—be it in the control room or an executive’s office—has to understand only one interface to get data from any device. In the past, if a user wanted to get data from a vendor’s proprietary control system, the user had to buy their proprietary application-programming interface. In contrast, OPC presents the data from any control system in the same way. OPC client application can be connected to any vendor’s OPC server in the same way and expect the same behavior and information from the server.

Beyond technological elegance, OPC has practical “bottom-line” implications, both for users and vendors. In the past, if a user wanted to mix and match application software systems and devices from multiple vendors, he first had to find out if the software drivers for a given device or system were available. If not, he had to pursue another solution or invest the time and money necessary to develop a custom driver using that vendor’s proprietary interface. OPC eliminates the compatibility problem, allowing users to select precisely the devices and systems they want and can afford for a particular application.

## Benefits to Vendors

### Time Savings (*Eliminate Driver Development*)

OPC server vendors develop one version of their driver that communicates with all OPC client applications. The costly development of I/O drivers will be diminished substantially. The vendor can focus their development resource at communication to the end device, rather than worrying about different client communication schemes.

### Increased Served Market through Increased Connectivity and Interoperability

Products will plug together more easily. I/O manufacturers will be able to more readily sell their hardware (one OPC I/O server will replace the need for many specific drivers that can talk to various products). Users will be able to take advantage of the products they want to use.

### Focus on Value-Added Activities

Software vendors can focus efforts on adding value to their core SCADA, HMI, and Batch product offerings. It also allows third-party application vendors (such as specialized vertical market packages, advanced alarm handling, and statistical analysis) to work more easily with data from other vendor’s products.

## Benefits to Users

### Time Reduction through Lower System Integration Costs

OPC eliminates the need for costly custom software integration. OPC provides plug-and-play software and hardware components from a variety of automation software, device, and system suppliers. Process and manufacturing companies can easily integrate applications into corporate-wide automation and business systems, something that has been virtually unachievable in the past. OPC-compatible components greatly reduce system integration costs because all software and hardware components adhere to a single, standard interface that’s being adopted around the world. Automation suppliers are providing hardware devices with integrated OPC servers that are replacing proprietary device-driver software. The driver connection between hardware and software from different vendors has historically been the number one headache in system integration. OPC offers the opportunity to ease the pain and shorten the application development cycle. This gets automation projects up faster, which saves time for new projects and brings the benefit of automation to the process sooner.

### Ease of Integration with Plug-and-Play (*Connectivity*)

PC technology is extending beyond hardware I/O to more complex control and business systems. DCS, SCADA, HMI, plant scheduling, maintenance, and other

## Benefits

manufacturing applications supporting the OPC standards enable the open exchange of information between cooperating applications across the manufacturing enterprise. This allows the manufacturing customer to focus his efforts on value-added business activities versus system integration problems.

The business benefit is that we have interoperability between clients and servers. The end users reap the benefit by being able to pick and choose which components are appropriate for their installation and be assured that the components will play together.

### **Ease of Connectivity and Interoperability of Custom Applications**

Customers may develop simple Microsoft Visual Basic applications to exchange data with any OPC server or to use their favorite OPC client application to exchange data with any OPC server. The secondary benefit is that client applications, with full access to the plant floor, can be written with little or no knowledge of the industrial network. Standardization has provided the stability necessary to encourage applications from a much wider range of software vendors and service providers.

### **Eliminate Proprietary Lock of Legacy Vendors**

OPC client applications can focus their development on the application functionality, rather than device connectivity. Previously, customers were limited to choosing among the client applications that supported communication to the devices in their installation.

With OPC, customers are no longer bound to a single vendor. If a plant has a legacy installation, End-Users do not need to stick with the same vendor. All client applications have the same connectivity to the same set of devices. What vendors have in their repository of implemented connections will no longer be a factor in the customer's decision to purchase an OPC client application.

If a device vendor develops a new product, it is up to the device vendor to provide the OPC interface. It is not the responsibility of every software supplier to invest thousands of dollars in new drivers.

### **Freedom of Choice to Pick "Best in Breed Products"**

With the interoperability OPC provides, End-Users can choose software or hardware from different vendors and know that their components will seamlessly work with one another. In return, vendors will need to become more competitive to maintain their customers' loyalty, benefiting End-Users.

OPC technology makes it possible for Systems Integrators and End-Users to select optimum, vendor-independent components when designing an automation system. This "open systems" approach enables engineers to pick products that meet their exact requirements, as opposed to modifying the requirements to match the system, regardless of the vendor.

### **Access to Data by Anyone in the Automation Hierarchy**

Another benefit of OPC is access to process-related data at every level of the enterprise. No longer is this strategic data restricted to the plant floor. Visual Basic access via the OPC Data Access Specification permits plant data to flow upstream to the business applications. Armed with the right data, decision-makers are better equipped to make strategic and "Just In Time" decisions to improve business efficiency.

Widespread adoption of OPC will also result in greater sharing of information across multiple applications simultaneously. As more applications are OPC-enabled, the same information may be distributed to multiple applications (such as maintenance, inventory, operator displays, and document management) using a combination of OPC and DCOM—such that business processes may be coordinated simultaneously.

### **Ease of Use — Auto-Configuration of Tags**

Effectively designed OPC components are also very easy to use, requiring very little configuration. OPC servers do not require the user to configure tags at all; the server can automate this configuration, making an OPC installation a turnkey solution.

### **Reduced Troubleshooting and Maintenance Cost**

OPC offers a standard that once learned minimizes the need to be an expert on every protocol.

### **Add/Delete without System Shutdown**

Items can be added and deleted without shutting down the server. This is far superior to many proprietary drivers that require the driver be stopped before points can be added. An example of the use of this feature: points can now be added through a database front end—defining points consistent with the server's syntax. Data will be returned immediately on an OPC Server.

### **Synchronous and Asynchronous Device Writes (*not possible before OPC*)**

Synchronous and asynchronous device writes, with acknowledgment, is superior to previous DDE drivers which presented huge problems to application developers. On some DDE drivers, an application would attempt to write a value to the PLC. However, before the value actually got to the PLC, the value would be overwritten by a polled read by the driver.

### **Non-Obsolescence**

One of the benefits of using standard technology like COM, DCOM, and ActiveX is that current OPC clients will not be obsolete when new functionality is added to the server. It's very easy to extend the OPC server by adding new COM interfaces while keeping all the existing COM interfaces backward compatible. This feature is very important to End-Users.

## Frequently Asked Questions

### Who should care about OPC?

You should care about OPC if your applications are largely run in personal computers and you are involved with solving plant integration problems. As a critical mass of servers and OPC-enabled applications become available, OPC is likely to become an important part of your plant integration tool set. The OPC specification promises a future without proprietary interfaces that will greatly benefit both manufacturing customers and automation suppliers.

### How is OPC going to improve my bottom line?

From a business perspective, the use of OPC for connectivity promises to reduce the cost of automation, control, and integration solutions. By using OPC-compliant products, significant savings can be achieved through shorter development efforts and a wide choice of vendor hardware and software solutions.

For every automation system installed today, a significant amount of time and money is spent ensuring that the system can share information with other systems and devices. OPC will save the customer time and money by eliminating a lot of the system integration problems caused by lack of open standards that exist between automation devices, systems, and manufacturing software.

After an automation system is installed, OPC will not improve business bottom line directly; however, OPC will provide a common method to access real-time information. The real key to improving the bottom line is to distribute and use the information throughout the business' value chain.

### With the introduction of DCOM, how does OPC handle problems such as the remote server being disconnected?

DCOM provides built-in features that ensure OPC clients and servers have a robust and reliable mechanism to exchange real-time information across the network. DCOM also handles retries and time-outs between an OPC client and a remote OPC server and tries to re-establish communications if they are disconnected.

One of the strong points of OPC is that it leverages other standard software technology like Microsoft ActiveX, DCOM, and Windows NT. Microsoft DCOM technology makes distributed, client/server networking transparent to the OPC application. DCOM makes the underlying network communication protocol transparent to the OPC client/server. DCOM may send OPC messages using a variety of transports such as UDP, TCP/IP, and IPX, using the same OPC application using DCOM.

### Can OPC implement safe shutdowns?

If you are asking if OPC can be used to implement a safety shutdown system, the answer is no. If you are asking if OPC can implement safe shutdowns of a system, if certain conditions exist, the answer is yes.

OPC does not directly specify any type of shutdown mechanism or requirements of a client/server to provide this type of functionality. OPC servers and clients can exchange messages that contain shutdown commands. These commands can be interpreted and implemented by the control logic running in the software and hardware control devices that are connected to OPC.

## Acknowledgments

Parts of this OPC Overview were extracted from a Special OPC Supplement of Start Magazine published in their January/February 1998 issue. The entire OPC Supplement can be viewed at:

<http://www.startmagazine.com/v2n1opc0.htm>

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*FactorySoft*

## 1.0 Applicant Information

1.1 Company Name: \_\_\_\_\_  
Principal products or services: \_\_\_\_\_  
Address of principal office: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1.2 If an organization, please state type:  
 Supplier     Research Institution     Government Agency     End-User     Consultant  
 Educational Institute     Other (please specify): \_\_\_\_\_

1.3 Describe your Company/Business: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1.4 Other standards committees, end-user groups or industry consortia in which the applicant participates:  
\_\_\_\_\_  
\_\_\_\_\_

## 2.0 Membership Listing

2.1 For the records of the OPC Foundation, please state the exact manner in which the applicant's Company name should appear in any formal list:  
Company \_\_\_\_\_  
Acceptable shortened versions of applicant's Company name: \_\_\_\_\_

2.2 Applicant's signature on this application authorizes the OPC Foundation, if applicant is accepted for membership as a participating or informational member, to: (a) include applicant's name in the official and public list of members of the OPC Foundation, wherever such list is printed or reproduced, (b) prepare and issue a press release regarding such membership, subject to the prior approval of such a statement by the applicant's designated primary representative (see below), and (c) include applicant's name as a member in any notices required to be filed with the U.S. or any foreign Government, including without limitation the U.S. Department of Justice and the Federal Trade Commission, which notices may subsequently be published in any form, including, without limitation, the Federal Register.

## 3.0 Designated Applicant Representatives

3.1 The name of the primary (voting) representative to the OPC Foundation for the applicant will be:

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Company: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

e-mail Address: \_\_\_\_\_

3.2 The name of the marketing representative to the OPC Foundation for the applicant will be:

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Company: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

e-mail Address: \_\_\_\_\_

## 4.0 Membership Fee

4.1 Membership fees are determined by the type of membership (corporate or institutional and non-profit) and the type and size organization of applicant, and may be changed from year to year. Please indicate below the appropriate type of membership for applicant:

### Corporate Memberships

CATEGORY	ANNUAL DUES
<input type="checkbox"/> Class A: Annual sales <u>greater</u> than U.S. \$100 million . . . . .	U.S. \$10,000
<input type="checkbox"/> Class B: Annual sales <u>between</u> U.S. \$20 million and U.S. \$100 million . . . . .	U.S. \$5,000
<input type="checkbox"/> Class C: Annual sales <u>between</u> U.S. \$2 million and U.S. \$20 million . . . . .	U.S. \$2,500
<input type="checkbox"/> Class D: Annual sales <u>under</u> U.S. \$2 million . . . . .	U.S. \$1,500
<input type="checkbox"/> Class E: End-user member . . . . .	U.S. \$1,000

### Institutional and non-profit organizations

- Non-voting (informational) member . . . . . U.S. \$500
- University (Non-voting) . . . . . U.S. \$100

4.2 Contributions or gifts to the OPC Foundation are not tax deductible as charitable contributions. However, they may be tax deductible as ordinary and necessary business expenses, subject to the requirements of tax laws and regulations applicable to applicant.

4.3 Applicant must enclose payment for the applicable annual membership fee with this application, in the form of a check payable to the OPC Foundation, or a Wire Transfer to Chase Banko Austin, TX o ABA # 113000609 (for domestic) and SWIFT CODE#TCBKUS44 (for international) for OPC Foundation Account # 16900446070 (for questions 713- 216-7127), or by credit card MC, Visa or Amex. Thereafter, annual membership fees are due and payable on each anniversary date of applicant's membership. Membership rights and privileges are contingent upon payment of all applicable membership fees when due, and acceptance of such payment(s) by the OPC Foundation.

4.4 Please state below the billing address for invoices sent by the OPC Foundation to applicant:

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Company: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

\_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

e-mail Address: \_\_\_\_\_

## 5.0 Non-Disclosure And Intellectual Property Rights

Members who have representation on a technical committee of the OPC Foundation agree and acknowledge that: (i) the OPC Foundation shall own all right, title and interest (including, without limitation, all trade secrets, copyrights and other rights of property, whether personnel or intellectual) in all works, information, ideas, publications, reports or output, in any form, arising out of the work and/or proceedings of any such committee; (ii) no proprietary information of a member of any third party shall be disclosed to the OPC Foundation or any committee thereof, without the appropriate consent of its owner; and (iii) no work, proceedings or output, in any form, of any OPC Foundation committee shall be used by any member, or disclosed to any third party or any other member, prior to the public disclosure of such work, proceedings or output by such committee.

On behalf of the above-described applicant, I affirm that, if accepted for membership in the OPC Foundation, the applicant will abide by the bylaws, rules and policies of the OPC Foundation.

Signature: \_\_\_\_\_

Name (print): \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Please mail the completed application together with payment by check of the appropriate membership fee in U.S. dollars to:

**OPC Foundation**  
PMB 292  
20423 State Road 7 #F6  
Boca Raton, FL 33498-6797  
USA

## 6.0 OPC Foundation Committees

- |                    |   |
|--------------------|---|
| Alarms and Events  | This committee will develop the extensions to the OPC standard that will define how alarms and events from process devices should be communicated to clients.   |
| Batch              | This committee will develop the extensions to the OPC standard that will define how batch structures and transactions could be exchanged between control devices and clients.   |
| Compliance Testing | This committee will develop a suite of tests used for testing the compliance of client, server, or toolkit products. Once the initial suite is developed, this committee will keep the tests current with changes made to the specification |
| Data Access 3.0    | This committee will develop enhancements for the data access functionality to include historical data, complex data, and PLC I/O.   |
| Marketing          | This committee will handle all OPC Foundation press releases, publications, training events, joint Microsoft events, and Trade Show coordination.   |
| Security           | This committee will develop the extensions to the OPC standard that will define how access to the data in a server can be limited to specific client applications.  |
| XML                | This committee will develop XML schema for OPC constructs.  |

# Membership Application



## OPC Foundation Committees *continued*

The Member Benefits information sheet of the OPC Foundation sets forth the criteria for eligibility of each member's personnel to serve on technical committee(s) of the OPC Foundation. If eligible, applicant agrees that the following of its personnel will serve on such committee(s):

Name of Committee: \_\_\_\_\_

Name of Individual(s): \_\_\_\_\_

Title: \_\_\_\_\_

Company: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

e-mail Address: \_\_\_\_\_

Name of Committee: \_\_\_\_\_

Name of Individual(s): \_\_\_\_\_

Title: \_\_\_\_\_

Company: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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e-mail Address: \_\_\_\_\_

# Member Benefits



Effective May 1999

Member Benefit	Corporate Member	End-User Member	Non-voting Member										
<b>Eligibility &amp; Annual Membership Fee</b>	<table border="0"> <tr> <td><b>Annual Sales</b></td> <td><b>Membership Fee</b></td> </tr> <tr> <td>Class A: &gt; US \$100 Mil</td> <td>US \$10,000</td> </tr> <tr> <td>Class B: US \$20 Mil - US\$100 Mil</td> <td>US \$5,000</td> </tr> <tr> <td>Class C: US \$2 Mil - US\$20 Mil</td> <td>US \$2,500</td> </tr> <tr> <td>Class D:&lt; US \$2 Mil</td> <td>US \$1,500</td> </tr> </table>	<b>Annual Sales</b>	<b>Membership Fee</b>	Class A: > US \$100 Mil	US \$10,000	Class B: US \$20 Mil - US\$100 Mil	US \$5,000	Class C: US \$2 Mil - US\$20 Mil	US \$2,500	Class D:< US \$2 Mil	US \$1,500	OPC Technology User, Not Supplier  Class E: \$1,000	Institutions and Non-profit Organizations  \$500  Universities \$100
<b>Annual Sales</b>	<b>Membership Fee</b>												
Class A: > US \$100 Mil	US \$10,000												
Class B: US \$20 Mil - US\$100 Mil	US \$5,000												
Class C: US \$2 Mil - US\$20 Mil	US \$2,500												
Class D:< US \$2 Mil	US \$1,500												
<b>Voting Rights</b>	Yes	Yes	No										
<b>Attendance at Training Schools &amp; Seminars<sup>1</sup></b>	Yes, 33% Discount	Yes, No Discount, Same as General Public	Yes, No Discount, Same as General Public										
<b>Participation in Trade Shows &amp; Demonstrations</b>	Yes <sup>2</sup>	May be Listed in Advertisement and Publicity	May be Listed in Advertisement and Publicity										
<b>Availability of OPC Specifications</b>	Early Access to Specification and Sample Code	Early Access to Specification and Sample Code	Access to Completed Specification (Universities-Early Access)										
<b>Committee Eligibility</b>													
<b>Technical Steering Committee (TSC)</b>	Yes, Must be Appointed by the Chair of the TSC	No	No										
<b>Technical/Marketing SubCommittee</b>	Yes	Yes	No										
<b>End-User Advisory Council</b>	n/a	Yes	n/a										
<b>Services</b>													
<b>Distribution of Publications &amp; Application Notes</b>	Yes, First Item Free, 50% Discount on Additional Copies.	Yes, First Item Free on Request, No Discount on Additional Copies.	Yes, First Item Free on Request, No Discount on Additional Copies.										
<b>Listed in OPC Membership Directory</b>	Yes	Yes Separate Mention	Yes										
<b>Use of OPC Member Logo in Advertising</b>	Standard	Standard	Standard										
<b>Distribution of OPC Product Catalog</b>	10 Copies of Each Issue at No Charge.	10 Copies of Each Issue at No Charge.	1 Copy of Each Issue at No Charge.										
<b>Conformance &amp; Interoperability Registration</b>	Yes	Not Applicable	Not Applicable										

<sup>1</sup> Subject to Availability <sup>2</sup> Subject to cost sharing

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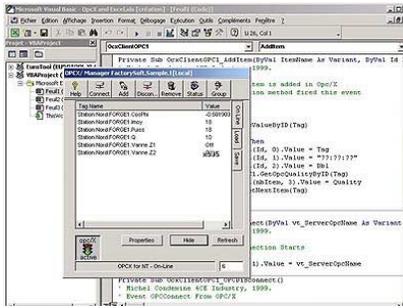
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OPCX 2000 is an ActiveX OPC Client that can be used in the most popular ActiveX Containers including: Visual Basic 6.0, Visual C++ 6.0, Delphi, MS Office, Internet Explorer 5.0,...

This easy to use tool enables the user to control, visualize, read and write data in real time, from any installed OPC servers.

OPCX 2000 supports hundreds of properties, methods and events which enable users to create an OPC Client application rapidly and professionally with high performance.

OPCX 2000 provides an intuitive Graphical User Interface to test OPC servers connection and validate the communication of a fieldbus.

### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a

OPC Data Access 2.0

### Features Include:

- Designed for Windows NT, 95/98 and 2000
- Full OPC level 2.0 Data Access compliance
- Works with all ActiveX Container
- Intuitive Graphical User Interface
- Allows parallel testing of multiple OPC servers local and remote via DCOM
- Multi-threaded model
- Integrated OPC Tag Browser
- Integrates with HTML and Web pages
- Includes Visual Basic and MS Office examples

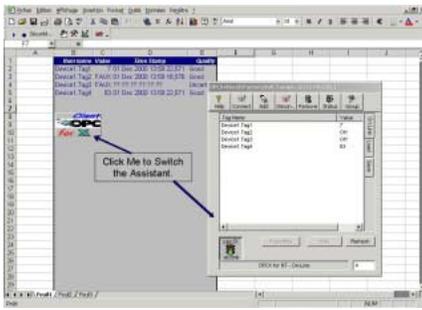
Catalog Number	Unit Price	Availability
OPCX 2000	Consult Factory	Now



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 Web: [www.4ce-industry.com](http://www.4ce-industry.com)



## Type of Product

OPC Client

## OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

OPCX4Excel is an ActiveX Component designed only for Microsoft Excel.

With OPCX4Excel receive data in cells, with on-line cells updating. No code is needed, no VBA development. Just use the Assistant to drive your connection, when done, go back to Excel to work with OPC data in cell.

### OPCX4Excel-Single - 1 License

- 1 month of support: email and Hot Line
- 1 license Runtime OPCX 2000 included

### OPCX4Excel-Multi5 - 5 Licenses

- 3 months of support: email and Hot Line
- 5 license Runtime OPCX-2000 included

### OPCX4Excel-Multi10 - 10 Licenses

- 6 months of support: email and Hot Line
- 5 license Runtime OPCX-2000 included

### OPCX4Excel-5Y - 5 Years

- Full support: phone, email, and Hot Line
- Unlimited Runtime OPC4Excel for 5 years

### Features Include:

- Designed for Windows NT, 95/98 and 2000
- Intuitive OPC Assistant
- Allows OPC servers local and remote
- Multi-server connection
- Includes Microsoft Excel templates (XLT)
- Demo available

Catalog Number	Unit Price	Availability
Single	1990.00 FF 303.37 euro	Consult Factory
Multi5	7960.00 FF 1213.49 euro	Consult Factory
Multi10	14950.00 FF 2275.30 euro	Consult Factory
5Y	120000.00 FF 18293.88 euro	Consult Factory



### 4CE Industry

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Web: [www.4ce-industry.com](http://www.4ce-industry.com)



### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 2.0  
OPC Data Access 1.0a

### Scalable Batch Control

ABB's AdvaBatch 2.1 easily manages multiple recipes for a wide range of batch processes. Designed to utilize Microsoft's DCOM (Distributed Component Object Model) and ActiveX technologies, this software is ideal for batch applications that require S88-based solutions. This includes industries such as food and beverage, pharmaceutical, fine chemical and consumer products.

AdvaBatch is a scalable batch processing product that provides superior recipe management, task and resource management, and IEC 1131 sequential function chart procedural control. Its point-and-click operations and easy-to-interpret and understand graphics make it intuitive and user friendly.

### Features Include:

- Plant Model
- Sequential Function Charts
- Production Operating Messaging
- Scheduling
- OPC Connectivity
- Historical Recording

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory

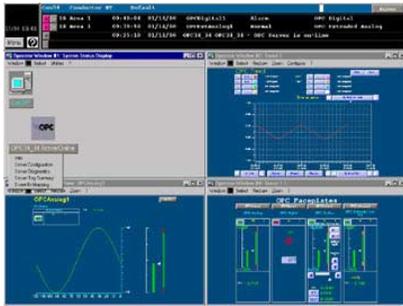


### ABB Automation Inc.

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*\*See Additional Company Information*



### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a

Maestro-Conductor NT provides an Operator interface for Plant Management and Control. It also provides the following Process Management functions:

- Alarm Management
- Trending
- Dynamic & Animated 3D Graphics
- Data Historizing and Archiving
- Data Logging
- Report Generation
- Open Systems Client Support (OLE, DDE, DCOM)
- SYMPHONY system monitoring
- Conductor NT Console Configuration
- Other Windows NT applications
- SOE and Red Tag Maintenance Support (Harmony)
- Direct Connectivity to 3rd party control equipment through an OPC Standard interface
- International Language Support (Including 2 Byte Languages)

### Features Include:

- Client/Server Architecture
- Up to 30,000 Tags per Server
- Intuitive, hierarchical display system
- Up To 10,000 Custom Graphic Displays per O-NET Group
- Operator Capture/Restore of Up to 10 Previous Window Displays
- Online Documentation (Operation and Configuration Information)
- Context Sensitive System and User Help Menus with Each Display

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory

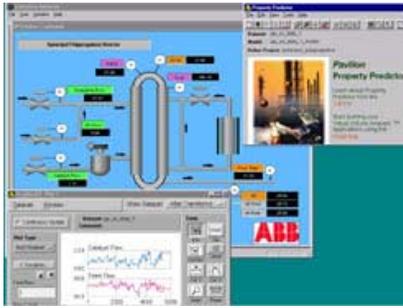


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*\*See Additional Company Information*



### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 2.0  
OPC Data Access 1.0a

The cornerstone of information management is ABB's Enterprise Historian. This product provides the platform and tools that capture, archive, present and transform manufacturing data into meaningful information to support operational activities and/or decision making. Enterprise Historian's distributed architecture allows historical information to be retrieved from different systems within a facility as well as from other facilities, whether they are across the street or across the globe. Historical data from upstream and downstream processes can be viewed from operator stations on the plant floor as well as from desktop PCs. Information can be integrated from both ABB systems and other vendors' systems.

In addition to standard information management tools, ABB provides domain/industry-specific and functionally rich extensions to the Enterprise Historian. For example, production data log (PDL) is useful for collecting and storing transaction information for batch and related process industries, profile/contour visualization and storage for flat sheet processing. ABB, through its alliance with Pavilion Technologies Inc., has taken the unique position of providing its customers with integrated data-mining and modeling capabilities within Enterprise Historian. This gives the user the ability to analyze the historical data collected, create sophisticated process models, evaluate the models, and apply them as part of open or closed-loop strategies for process operations optimization.

#### Features Include:

- PC and web-based browser for desktop integration
- Pavilion Insights included for integrated data mining and modeling
- Distributed architecture
- Secure data storage
- Flexible production data storage
- Highly scalable
- Third party automation system integration

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory



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*\*See Additional Company Information*



### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0

Maestro-Conductor NT provides an Operator interface for Plant Management and Control. It also provides the following Process Management functions:

- Alarm Management
- Trending
- Dynamic & Animated 3D Graphics
- Data Historizing and Archiving
- Data Logging
- Report Generation
- Open Systems Client Support (OLE, DDE, DCOM)
- SYMPHONY system monitoring
- Conductor NT Console Configuration
- Other Windows NT applications
- Red Tag Maintenance Support
- Direct Connectivity to 3rd party control equipment through an OPC Standard interface
- International Language Support (Including 2 Byte Languages)

### Features Include:

- Client/Server Architecture
- Up to 30,000 Tags per Server
- Intuitive, hierarchical display system
- Up To 10,000 Custom Graphic Displays per O-NET Group
- Operator Capture/Restore of Up to 10 Previous Window Displays
- Online Documentation (Operation and Configuration Information)
- Context Sensitive System and User Help Menus with Each Display

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory



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*\*See Additional Company Information*



Within Agilent Technologies' automation integration architecture, RTAP is a real-time application database server that provides flexible, scalable solutions for production integration and SCADA, especially in medium to very large applications. RTAP's object-oriented framework – which uses ActiveX component software – lets it work smoothly with a host of business, process monitoring and control, and desktop applications. This mission-critical software is a proven performer in the oil and gas, electrical power, water utility and chemical processing industries.

**Features Include:**

- Scan system: gathers high-resolution data from real-time sources
- Calculation engine: manipulates data into intermediate values
- Data historian: includes trending and reporting tools
- Alarm and event managers: detect and respond in real time
- OPC scan task: gives RTAP the ability to act as an OPC client
- PC client tools: connect to Windows NT-and UNIX-based RTAP servers

**Type of Product**

OPC Client

**OPC Compatibility**

OPC Data Access 1.0a  
 OPC Data Access 2.0

Catalog Number	Unit Price	Availability
HP B2778A	Consult Factory	Now



**Agilent Technologies**  
 Innovating the HP Way

**Agilent Technologies Inc.**

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 Web: [www.agilent.com/find/ais](http://www.agilent.com/find/ais)



Field proven since 1988, Virgo2000 is the first of a new class of automation enabler products, the Soft-DCS. Scalable from stand-alone, embedded controllers to fully networked factory automation systems, it is an industrial-grade soft-logic and process automation package intended for serious automation projects requiring any of the following features.

### Features Include:

- Deterministic, real-time IEC1131-3 SFC and ST-based control
- Transparent redundant networking
- Embedded HMI with full SCADA capability
- Millisecond trending
- High-speed control and acquisition
- PID and advanced control blocks
- User-expandable control objects libraries
- Small footprint – runs on Allen-Bradley Open Controller OC586® and PLC5® Information Processor®, FF-Automation AL2000®, GE 90/70®, PC104, VME, Ziatech STD32®, and most industrial computers

### Type of Product

OPC Server  
OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

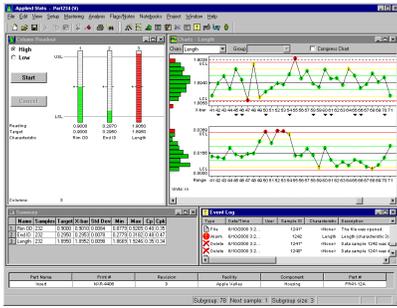
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory



### AlterSys

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Web: [www.pepvirgo.com](http://www.pepvirgo.com)



### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a

### Statistical Process Control Solutions for the Global Enterprise

Applied Stats is a full featured, real time OPC compliant SPC software product. Robust data acquisition and analysis tools are provided through an intuitive, easy-to-use operator interface. Applied Stats software contains data acquisition tools that interface with a wide variety of analog, digital, ascii text output and serial instrumentation and provides interfacing through OPC, DDE and ODBC.

#### Features Include:

- Data transfer through OPC, ODBC, DDE and ascii text
- Data displays include Histogram, Control Charts and Pareto Analysis
- Supports both analog and digital device collection
- Chart types include X-bar/R, X-bar/S, X-bar/MR, IX/MR, Pre-Control, MX-bar/MR, Trend, Median/Range, Box and Whiskers and Three-Way
- Data analysis includes Cr, Cp, Cpk, Pr, Pp, Ppk, Cpl, Cpu, Cpm and Johnson Transformation; Data Normality tests include Kurtosis, Skewness, Shapiro Wilk and Chi-Square
- The complete Western Electric Rules of Trending Analysis are provided and modifiable
- Supports alarming, archiving, e-mail, OLE and Gage R & R
- Many other features are available for data analysis and historical data studies

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



#### Applied Statistics, Inc. (ASI)

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**PHOTO  
UNAVAILABLE**

FRONTVUE 2 is an OPC based HMI (Human Machine Interface) with high quality graphics, comprehensive animation capability and a library of re-usable graphic objects. A VB (Visual Basic) compatible engine is included as standard for developing customized functionality.

FRONTVUE 2 can be used to visualize a process either as a standalone application or as the client of third party applications such as a SCADA package or MES. It can also be used in conjunction with WEBVUE for remote display and control via an Internet or Intranet connection and Web Browser.

FRONTVUE 2 is an ActiveX container and can be supplied with ActiveX controls for TREND, ALARM, GRID and LOG displays.

### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 2.0  
OPC Data Access 1.0a

### Features Include:

- Advanced graphic editor developed using Microsoft Foundation Classes (MFC)
- CAD like zoom and layers support for mimic de-clutter
- Generic container for any ActiveX Controls
- Integrated VB compatible engine for custom functionality
- Support for distributed (multiple) and redundant data servers
- Dynamic multilingual support
- Support of Data Servers that are "structured variables" oriented or "simple variables" oriented
- User Rights Manager

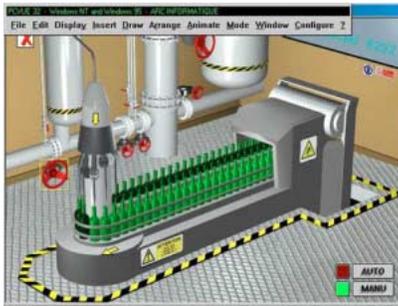
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory



### ARC Informatique

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Web: [www.arcinfo.com](http://www.arcinfo.com)



### Type of Product

OPC Server  
OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

PCVUE 32 is a new generation 32 bit SCADA system characterized by its modern and powerful ergonomics. Using the latest software technology (Visual C++, MFC, OLE, ActiveX, COM/DCOM, OPC) it incorporates user interface standards developed by Microsoft and the security of Windows NT.

PCVUE 32 is more than simple animated graphical software. It is a product that answers the reliability and performance standards set by the industry while still maintaining the user-friendliness of an office tool.

### Features Include:

- Simple yet powerful on-line configuration.
- Integrated FRONTVUE 2 graphical user interface.
- Extensible using built in program language.
- Object technology used throughout.
- Multi-station architecture using Client/Server technology with redundant capability.
- OPC support both as client and server for exchange of information in real time with communication servers and other OPC compliant applications.
- Wide range of communication protocols included as standard.

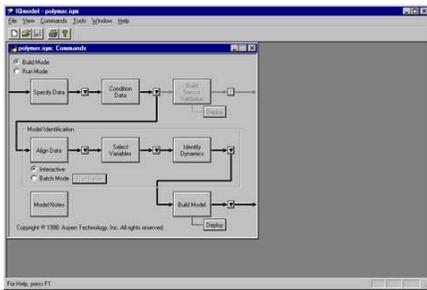
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory



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The Aspen IQ™ packages are used for the development and implementation of inferential sensors, also referred to as soft sensors, virtual analyzers, or simply, inferentials. With Aspen IQ it is possible to implement linear combination, polynomial, linearized rigorous and hybrid neural net inferential sensor applications. It is also possible to incorporate additional calculations into the Aspen IQ framework. A set of on-line and off-line software combined with well proven methodologies comprise the three facets of Aspen IQ. Aspen IQ interfaces to processes directly via OPC or indirectly through process information management systems like InfoPlus.21™.

### Features Include:

- Built-in steady-state detector
- Can be stand-alone or integrated with DMCplus™ and InfoPlus.21™
- Provides both analyzer and lab model updating
- Wide range of DCS and information system interfaces available
- Enabled for remote monitoring
- No code generation or programming required Off-line
- A broad suite of tools for developing inferential sensors: PLS, fuzzy PLS, neural-network and linearized rigorous-model based approaches
- Graphical Analysis Tools for Model Evaluation

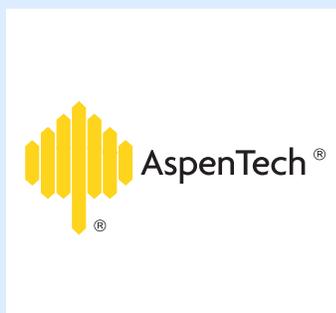
### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory

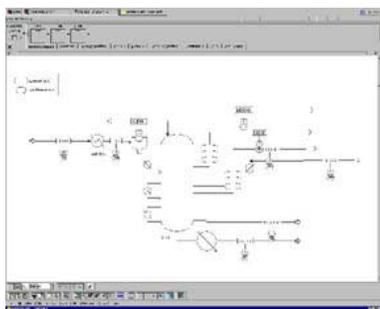


### Aspen Technology, Inc.

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*\*See Additional Company Information*



### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a

Aspen Plus® is the most widely used modeling system in the process industries. Customers use it to generate highly detailed and accurate models for use across the full manufacturing life cycle, from R&D through engineering and into production. Based on a single, consistent model generated from Aspen Plus, engineers can use additional technologies from the Plantelligence suite for dynamic simulation and operability analysis, heat integration studies, distillation synthesis studies and real-time optimization. Aspen Plus' OPC support makes it easier for users to validate and tune their models with actual process data.

#### Features Include:

- **Match Actual Plant:** Combines equipment rating models coupled with the exclusive Data-Fit utility for developing high-fidelity models that match actual plant performance.
- **Unit Operation Models:** Contains a comprehensive library of over 50 built-in unit operation models that cover the entire range of process equipment and operating conditions.
- **Model Analysis:** Includes a set of powerful model analysis tools that help you maximize the benefits from your process model.
- **Client-server:** The graphical interface client runs on PCs with Windows 95 or NT. The computational engine server is supported on a variety of platforms ranging from PCs to workstations and supercomputers.

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory



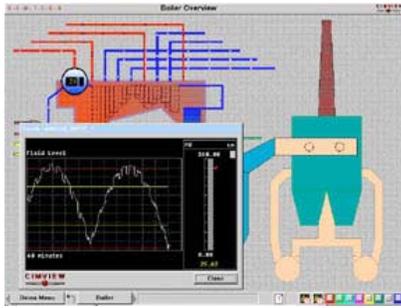
AspenTech®

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### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a

CIMVIEW is a Supervisory Control and Data Acquisition (SCADA) system relying on a unique distributed real time and historian database. CIMVIEW provides process control and information features on standard platform with a high level of availability due to a redundant architecture. CIMVIEW is designed for applications in steel, metals, power, utilities, building environmental controls and is sold to companies requiring applications for SCADA, Process Control and MES.

CIMVIEW's distributed architecture makes it possible to integrate, in a single system, solutions that usually require different systems. These functions are:

- Advanced process monitoring functions
- Management and exploitation of technical data
- Connection in real time with all applications in the plant
- Historical analysis using AspenTech's Aspen Process Explorer

### Features Include:

- Fully Distributed Real Time and Historian database
- Full redundancy for both acquisition and historian features
- Unique configuration database with online modifications
- Scalable systems from 10,000 tags to over 80,000 tags
- Support for large architecture (over 80 CIMVIEW nodes in one configuration)
- Historian database built on event basis and including all attributes (alarm levels, operator actions, operator name, ...)
- Historization of alarm-list and event logs in the same historian database
- Embedded security
- Online SPC
- On-Call management (on alarm, an automatic call is generated to page the operator in charge of the maintenance for the concerned process)

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory



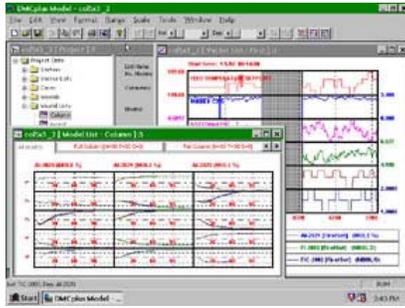
AspenTech®

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DMCplus™ is capable of pushing processes to multiple constraints simultaneously and holding them there, safely. The DMCplus control system is proven on large-scope problems without compromising the control system service factor. While most model predictive control technologies can claim to achieve economic returns, DMCplus helps maximize those returns over the life of the control implementation. DMCplus interfaces to processes directly via OPC or indirectly through process information management systems like InfoPlus.21™.

**Features Include:**

- Optional composite linear program (CLP) - to allow mix of slow/fast dynamics and larger scale solutions: the LPs of different controllers may be linked in one CLP to cover a broad scope of plant (in terms of active constraints) in one structure
- Explicit CV ranking - provides for explicit prioritization of controlled variables independent of dynamic tuning
- Dynamic weighting - variables near their limits can be weighted more strongly in the controller move calculations
- Configurable formula evaluation without coding - allows graphical configuration of calculations with no external calling or database maintenance
- Enhanced on-line simulation capability: a complete on-line snapshot can be uploaded to the simulation for performance evaluation, which can substantially reduce the effort required to initialize simulations.

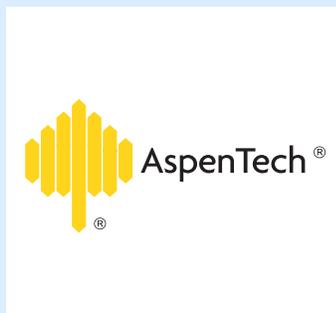
**Type of Product**

OPC Client

**OPC Compatibility**

OPC Data Access 1.0a

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory

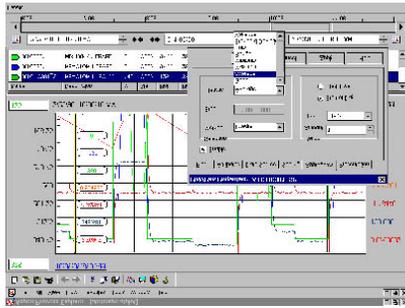


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*\*See Additional Company Information*



InfoPlus.21™ is AspenTech's Windows NT data server. InfoPlus.21 serves as the foundation for system integration and AspenTech applications in the plant. InfoPlus.21 collects, manipulates, and records large volumes of process data and makes this data accessible for analysis and reporting by users, business systems, and production applications. InfoPlus.21 exposes valuable process data to users who can apply it toward improved productivity, increased profits, and enhanced business flexibility.

**Features Include:**

- Broad access to process data - Desktop access to plant data for engineers, Web access for managers & standard interfaces to business systems
- Integrated with leading software - Direct access from popular desktop packages such as Microsoft Excel, Access & Crystal Reports
- Easily integrate diverse systems - Transparent access to RDBMS & control systems with ability to model different data structures
- Helps improve process knowledge - Integrated trending and analysis tools, including on-line multivariate analysis
- Lower life-cycle costs - Numerous integrated, "off-the-shelf" applications & tools for streamlined application development

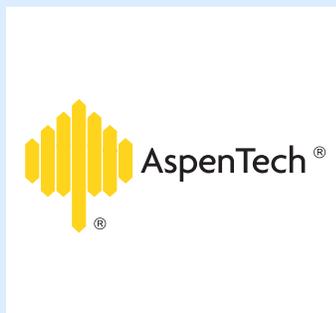
**Type of Product**

OPC Client

**OPC Compatibility**

OPC Data Access 1.0a

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory



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*\*See Additional Company Information*



RT-OPT® is the industry's leading process optimization system. RT-OPT is tightly integrated with Aspen Plus: Customers use Aspen Plus to generate highly detailed models of their plants' actual and optimal performance, then RT-OPT automatically optimizes plant performance in real time. This enables customers to use a single, rigorous model in multiple engineering functions thus improving plant profitability and reliability.

**Features Include:**

- **Shared Model** - The model describing the plant is shared with Aspen Plus, thereby enabling users to copy an auto-calibrated plant model implemented for on-line applications and use it for off-line simulation (with Aspen Plus).
- **Supports Complex Processes** - The equation-oriented environment of RT-OPT provides the robustness, speed and flexibility required for CLRTO of complex processes such as FCCUs, crude units and ethylene plants.
- **Solver** - The solver undertakes a simultaneous solution of the entire plant model via Successive Quadratic Programming (SQP).

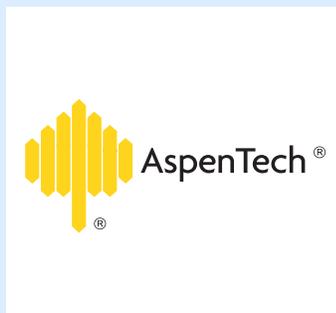
**Type of Product**

OPC Client

**OPC Compatibility**

OPC Data Access 1.0a

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory

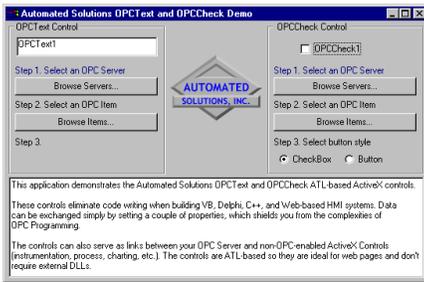


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*\*See Additional Company Information*



## Type of Product

OPC Client

## OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

Automated Solutions' ASForms is a suite of ATL based ActiveX tools that link live process data to interactive data controls. These ActiveX components combine full OPC Data Access 2.0 Client capability with the flexibility of ATL Web deployment. Textbox, Checkbox and Button components display and interact directly to our line of OPC Servers. OPCText and OPCCheck Controls allow end users to read and write data directly from Visual Basic or Web Deployed applications without writing complex OPC Automation code. ASForms is fully compatible with all OPC Data Access 1.0a and 2.0 compliant servers and can be integrated into any ActiveX Control/VBA compliant applications. Evaluation versions are available for download from our web site.

### Features Include:

- Multi-threaded model runs on Win 95/98/NT/2000
- FULL OPC Level 2.0 Data Access Compliance
- ATL based for Web Deployment
- Fast, windowless, and flicker-free operation
- Ease-of-use. Loaded and operational in minutes
- VB based HMI application with source code included
- Operational with all ActiveX Control/VBA compliant applications.
- RUNTIME FREE

Catalog Number	Unit Price	Availability
Consult Factory	Consult Factory	Now

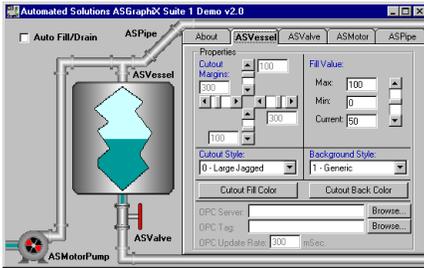


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*\*See Additional Company Information*



Automated Solutions' ASGraphiX is a suite of ATL based ActiveX Controls that link live process data to interactive industrial graphics. These ActiveX components combine full OPC Data Access 2.0 Client capability with the flexibility of ATL Web deployment. Data, Pump, Motor, Vessel, Valve and Pipe GUI components link directly to our line of OPC Servers AND our line of PLC ActiveX Communications Tools. ASGraphiX is fully compatible with all OPC Data Access 1.0a and 2.0 compliant servers and can be integrated into any ActiveX Control/VBA compliant applications. Evaluation versions are available for download from our web site.

### Features Include:

- Multi-threaded model runs on Win 95/98/NT/2000
- FULL OPC Level 2.0 Data Access Compliance
- ATL based for Web Deployment
- Fast, windowless, and flicker-free operation
- Ease-of-use. Loaded and operational in minutes
- VB based example HMI application with source code included
- Operational with all ActiveX Control/VBA compliant applications.
- RUNTIME FREE

### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

Catalog Number	Unit Price	Availability
Consult Factory	Consult Factory	Now

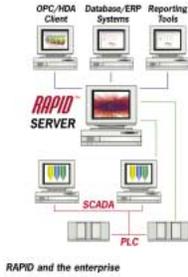


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RAPID is a Time & Batch Historian for the manufacturing, process and utility industry. It is based on an object-oriented database system resulting in performance and flexibility that surpasses traditional archive historian type of products. RAPID enables the end user to observe and compare batches and time intervals (shifts, weeks, months, etc.); trace products as these proceed through production and calculate the true cost of manufacturing goods thanks to the collection of accurate real-time information.

**Features Include:**

- Over 15,000 events stored per second, average
- 150 to 1 Million Tags
- On line database modification and maintenance
- Batch & Time comparison functions
- ActiveX Client incorporating spreadsheet, 2D Trending, 3D Open GL components which in turn access the RAPID Historian Database
- Connectivity to OPC compliant Servers through multithreaded data logger

**Type of Product**

OPC Client

**OPC Compatibility**

OPC Data Access 1.0a  
OPC Data Access 2.0

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now

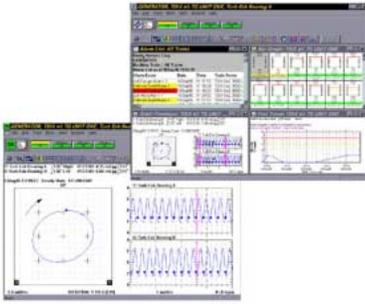


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*\*See Additional Company Information*



Data Manager™ 2000 is a continuous online machinery diagnostic software application intended for critical rotating and reciprocating machinery. This modular application stores and collates vibration and process data. Plant personnel can view this data in a number of diagnostic plot formats including alarm, historical, event, real time static and dynamic for steady state and startup/shutdown conditions. The process data interface, via this OPC Client, provides the user the ability to integrate process data with machinery condition information to better understand the interaction between process and machinery behavior. Machine condition information and process data correlation is essential in solving many machinery problems.

**Features Include:**

- Windows NT based application
- Client/Server architecture with support for Acquires process and vibration data from multiple sources:
  - Bently Nevada Communication Processors
  - DCS, PLCs via industry standard protocols such as DDE and OPC
  - LAN
  - WAN
- Remote connection Expandable system can include:
  - Machine performance monitoring
  - Decision Support for mechanical malfunctions

**Type of Product**

OPC Client

**OPC Compatibility**

OPC Data Access 1.0a  
 OPC Data Access 2.0

Catalog Number	Unit Price	Availability
2700/26	Consult Factory	Now



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# Trend Historian (5.1)

## Client

**PHOTO  
UNAVAILABLE**

The high performance Trend Historian can store over 105,000 TVQ updates (time, value, quality) per second on a typical PC running Windows NT or Windows 2000. Retrieval rates on this PC were 273,000 TVQ's/sec locally and 91,000 TVQ's/sec for remote PCs on the network.

Trend Historian uses a universal time coordinate timestamp with a resolution of 100 nanoseconds. The historian collects data into datasets with paths and manages file rollover and archiving of data files.

The Trend Historian also contains batch information where data profiles between various batches can be simultaneously viewed. Annotations can also be attached to a tag at a specified time.

A key feature built into the historian is the ability to monitor the performance of the historian and information of the computer system and its software. Monitoring the health of the computer system and the application software is incredibly important, especially while setting up process automation systems. This performance data allows system integrators and administrators to diagnose problems, track system resources and eliminate bottlenecks.

**Features Include:**

- Fast storage and retrieval of large amounts of process data
- Timestamp resolution of 100 nanoseconds
- Handles Batch information
- Stores annotations that are attached to tags
- Ability to monitor performance of historian, software, and computer system

**Type of Product**

OPC Client

**OPC Compatibility**

OPC Data Access 1.0a

OPC Data Access 2.0

Catalog Number	Unit Price	Availability
Trend Historian	Consult Factory	Now

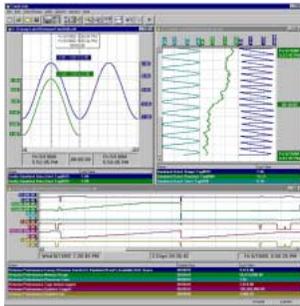


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# Trend Link (5.1) ActiveX Control Client



## Type of Product

OPC Client

## OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

Trend Link is a feature-packed solution to viewing, accessing, analyzing and manipulating unlimited amounts of real time and historical data throughout your plant. Trend Link is an ActiveX control that can be embedded into various HMI packages, Visual Basic applications, and other containers such as web browsers. It is very easy to use yet flexible to handle a wide variety of viewing preferences.

Quick panning of live and historical data on the same chart allows users to negotiate through large amounts of data to view data of interest. Independent scale ranges allow the comparison and interaction of variables with diverse values.

Trend Link contains a batch mode that permits analyzing of dynamic batches and time shifting of data. Users also have the option of attaching annotations to tags to explain actions to other users viewing the data. Additional key features include horizontal or vertical orientation of charts with control of line thickness, configurable legend window, print capabilities, export utilities and reports via Excel spreadsheets.

### Features Include:

- Real time and historical data on same chart
- Independent scale ranges and properties
- Horizontal or vertical chart orientation
- Batch mode
- Configurable legend window

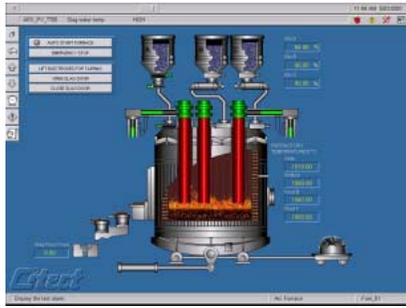
Catalog Number	Unit Price	Availability
Trend Link	Consult Factory	Now



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### Type of Product

OPC Client  
OPC Server

### OPC Compatibility

OPC Data Access 1.0a

Citect is a leading industrial automation system that enables users to improve productivity, reduce waste, and enhance safety by optimizing plant operations. Citect can also be used as a universal data server, by providing a cost effective and powerful tool that can gather data from over 130 types of field devices. In addition, Citect includes an OPC Client interface, further increasing the number of devices that can be interfaced to. The data collected can then be made available quickly and easily on any network. Based on true client server architecture and open industry standards, Citect provides maximum flexibility, scalability and proven reliability with an easy to use interface.

### Features Include:

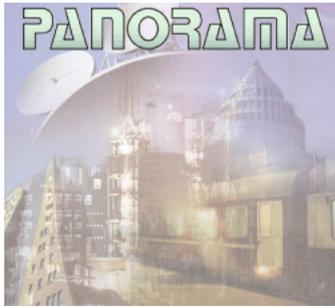
- Scalable architecture
- DCS style redundancy
- Support for both OPC Client and Server
- Over 130 I/O device drivers included
- Switch language at runtime
- Open system that supports OPC, ODBC, and ActiveX
- RAD Graphics
- Internet display clients
- Security control built into all elements
- High level SCADA programming language
- Advanced Trending, Alarming and Reporting



### Ci Technologies Pty Limited

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PANORAMA is a new generation SCADA software which supports Microsoft Windows NT/95/98, carries the “Designed for Microsoft BackOffice” logo, and knows a large success on the market. PANORAMA is a very easy-to-use yet powerful package. Its explorer-like configuration tool is object oriented. Mechanisms such as view and symbol instantiation give the user time and cost saving tools. Powerful replacement operations on views and symbols are very useful for development reuse from other applications even if not designed for that goal. For advanced users, PANORAMA includes a language to automate creation of applications.

### Features Include:

- Explorer like easy to use configuration tool
- Object oriented operations
- Powerful alarm and historical functions
- Database connectivity
- Simulation and VCR modes
- Networking with redundancy
- Built-in support of OPC
- Generic data stamping protocol for PLC's
- RTR (Ready To Run) object library

### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a

OPC Data Access 2.0

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory



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*\*See Additional Company Information*



RealFLO is an optional software module that converts the SCADAPack or Micro 16 into a natural gas flow measurement computer capable of handling three “runs.” Unlike conventional gas flow computers, the RealFLO/SCADAPack can also be programmed by the integrator to control valves, pumps and other devices in the field. Consequently, it is more compact and cost effective than competitors’ products. The RealFLO/SCADAPack continues to be a market leader.

### Type of Product

OPC Client



#### Control Microsystems

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*\*See Additional Company Information*



The SCADAPack Series is a family of compact programmable controllers that are optimized for SCADA and telemetry applications. SCADA applications always involve remote installation in harsh environments. Typical applications are oil and gas production, water and sewage treatment, pipelines, and hydroelectric dam control. The SCADAPack provides superior communications, wider temperature range, more robust transient protection, and lower operating power than factory floor PLCs. Three models are produced. The unit is programmable in Ladder Logic or IEC 61131-3 and standard ANSI C.

## Type of Product

OPC Client



CONTROL  
MICROSYSTEMS.com

### Control Microsystems

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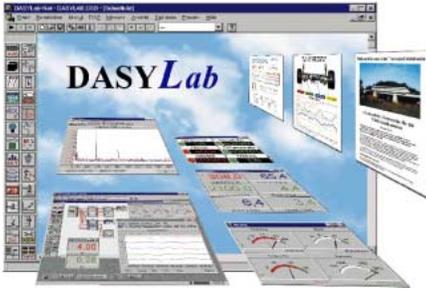
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*\*See Additional Company Information*



It takes just a few minutes to create your individual acquisition and analysis application with **DASYLab**.

Even most sophisticated acquisition and control tasks can be solved with **DASYLab** quickly and without any additional programming. Simply insert the appropriate module symbols into the worksheet and connect them by wires - all this with no more than a few mouse clicks. The module symbols represent inputs or outputs, display instruments or any of the many operations provided by the program; the data channels represent the signal flow.

Whatever your requirements in the control and instrumentation environment, **DASYLab** can meet your needs. From research and analysis to large-scale production and quality control, **DASYLab** is flexible enough to meet any requirement.

### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a

### Features Include:

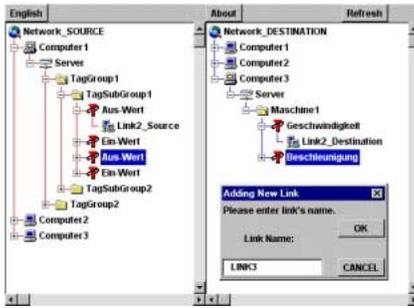
- OPC Client interface Version 1.0a and 2.0
- More than 80 Function Modules in 11 Groups
- Data acquisition up to 1MHz, Online Display up to 250 kHz
- Optimised drivers for more than 400 data acquisition systems
- Supports RS232, IEEE, IEC-Bus, CAN, and DataSocket
- DDE/ODBC interface

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



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### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

James is an OPC Handler which is used for building multi-functional distributed gateways. The OPC Handler is able to create connections between completely different automation systems and protocols. Using OPC makes information from one automation system available to another and handles the exchange of the user configured data (tags). The communication between more than two automation systems is supported. The number of connections depends only on the system properties of the used OPC servers and on the available memory on the system on which James runs.

James can be interactively configured with any WEB browser. It can be run on the local machine as well as from the Intranet/Internet. The application of the WEB technology guarantees the OPC Handler to be platform independent during its configuration.

The two windows of the user interface offer a clear overview of the OPC servers structure. All available computers, OPC servers, tags and defined connections are organized in a tree structure. There are source and destination trees.

### Features Include:

- Protocol independent connection and data transfer between tags (variables) of different automation systems
- Multi-server capability
- Platform independent user interface based on the WEB technology
- Freeware Version of James available

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now

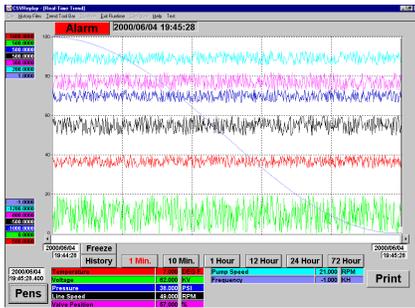


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*\*See Additional Company Information*



## Type of Product

OPC Client

## OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

OPC client for real-time trending, data logging, historical replay, alarming, alarm logging, and data routing. This application has been developed using Microsoft Visual Basic 6.0 implementing the OPC Automation Interface. The application is multi-threaded for high-speed performance and has a unique multi-threaded data server providing events with chart and alarm information to the CSVReplay client. With this implementation the data rate for several thousand OPC Items can be 10ms with no data loss and no blocking of incoming data. You can purchase a corporate license of CSVReplay and develop your own HMI/SCADA package using Visual Basic in a few hours.

### Features Include:

- Real-Time trending with 10ms resolution.
- Data logging to Comma Separated Variable text file with 10ms rate.
- History trend replay from CSV files.
- Real-Time and historical alarming with 10ms scan time.
- Data routing support for multiple OPC servers.
- Tag Browsing support for selection of OPC Items.
- Easy setup of trending, alarming, data routing, and data logging in central configuration.
- All configuration files are stored in CSV format and can be modified in MS Excel.
- Unique multi-threaded design with event driven execution for high-speed, low CPU load, and reliable delivery of data.
- Source code provided with purchase of corporate license.
- Perfect solution for OEMs.
- No runtime fees with site license or corporate license purchase.

Online Information: [www.opcsystems.com/CSVReplay.htm](http://www.opcsystems.com/CSVReplay.htm)

Catalog Number	Unit Price	Availability
CSVReplay	Consult Factory	Now



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Selected as an Industry Week Top 25 Technology, Web@aGlance web enables OPC Server data for graphical display in a Web Browser without installing additional client software. Development, deployment and maintenance costs are dramatically reduced while providing secure access through the company Intranet.

Acting as an OPC client, compliant with the Data Access V2.0 standard, Web@aGlance can be used to browse items, and present data as live process animations or charts running within an HTML page in a Web browser. Web@aGlance includes Microsoft FrontPage Wizards for rapid and easy creation of Web pages for deploying OPC-based plant operation data to the enterprise. Graphically animated screens may be converted from popular HMIs or created using the Web@aGlance Animation Editor. Web@aGlance also has extensive browser based charting capabilities for the display of historical and statistical data, making it a potential OPC history client as well.

### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Features Include:

- Data driven embeddable animated graphics, charts and reports
- Conversion support for existing PC/UNIX graphical applications
- WYSIWYG animation editor runs in your browser
- Microsoft FrontPage Charting Wizards for rapid development
- Live or Historical Data Access with the LookBack/VCR
- Remote monitoring, diagnostic or control applications
- All WITHOUT installing any Client Software

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



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## Type of Product

OPC Server  
OPC Client

## OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

## High Performance, Cost-Effective SCADA for Today and Tomorrow

Wizcon for Windows and Internet™ is high-performance SCADA/HMI software that takes full advantage of Windows NT's 32-bit, pre-emptive multitasking and multithreading. Wizcon for Windows and Internet™ provides comprehensive graphical and configuration tools to develop sophisticated applications in a wide variety of industries. Advanced features include scalable networking with hot backup, connectivity to over 100 field devices, zooming and layers within displays, and an open architecture that supports user-developed add-ons. Wizcon is a powerful, competitively priced HMI/SCADA software package that delivers real-time and historical information across the enterprise.

### Features Include:

- Support for both OPC Client and Server connectivity for open, flexible system integration.
- Object-oriented graphic development environment with over 500 pre-built industry-standard objects.
- Hot Backup comprised of identical Master and Backup stations connected to the field I/O and the network. Should the Master fail, the Backup station takes over all communication to the I/O and the network.
- Unique support for zooming allows you to draw the entire plant in one large image and then zoom in on a selected area for more detail - without redrawing the picture.

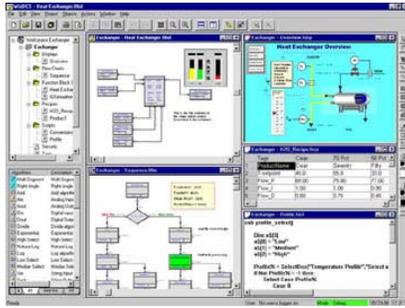
Catalog Number	Unit Price	Availability
Consult Factory	Consult Factory	Now



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Web: [www.emation.com](http://www.emation.com)



## PC-based Soft Process Controller with Integrated HMI

WizDCS™ is a true 32-bit software application for Windows NT that integrates digital logic, analog calculations, data management, and HMI functions into a single package. Project development and runtime share a common interface, which simplifies configuration and debugging. A choice of programming languages and advanced process control algorithms provide the right tools for continuous or batch control. For systems as small as five loop controllers up to a full DCS, WizDCS provides a cost effective means of bringing the PC revolution to process automation.

### Features Include:

- Support for both OPC Client and Server connectivity for flexible system integration.
- Online editing allows you to make program changes any time, even when the process is running.
- Choice of programming languages including Function Block Diagram, Flow Charts and VBA for configuration flexibility.
- Industry standard control function blocks range from simple logic to analog calculations including PID, Lead-Lag, Dead Time and others. An optional model-based multi-variable controller function is available.

### Type of Product

OPC Server  
OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

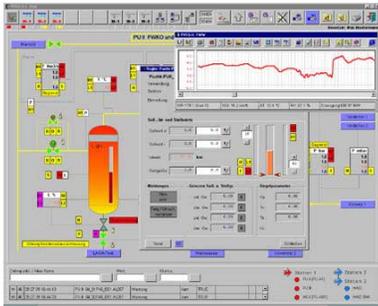
Catalog Number	Unit Price	Availability
Consult Factory	Consult Factory	Now



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Web: [www.emation.com](http://www.emation.com)



## Type of Product

OPC Client

## OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

**PVSS II** is high-end industrial automation software with true 32-bit client/server architecture. It is vendor and branch independent and supports Windows NT, LINUX and HP-UX. The package offers the complete spectrum of high sophisticated SCADA and HMI functionality and allows interfacing with PLC's, DDC's and other control devices like telemetry systems. One of the key features of PVSS II is the complete object-oriented way to configure an application - PVSS II allows the user to define technical objects thoroughly: that means that graphical presentation and animation of an object, its behavior, data structure and functionality can be defined in a fully integrated manner. These objects can be stored in self-defined libraries and used with typical object-oriented functions like referencing and so on. That's why PVSS II allows efficient standardization of major parts of even complex applications. This saves a lot of time and costs during implementation, test and maintenance and additionally makes this software suitable for all kinds of automation tasks. PVSS II also integrates a very powerful remote maintenance function which allows online reconfiguration of remote systems.

### Features Include:

- Object-oriented architecture
- Redundancy with Hot-Standby
- Scalable from stand-alone to big multi-user systems (client/server architecture)
- Available for Windows NT and LINUX and HP-UX (platform mix is possible)
- Online remote maintenance function
- Powerful API for the integration of external logic
- Integrated program language
- Multi-language support
- OPC-client (Windows NT only)
- Integration of Active-X controls (Windows NT only)

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



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*\*See Additional Company Information*

Panorama™ is a new generation of 32-bit Windows-based MMI software, one of the few designed for Microsoft BackOffice. Its true Client-Server and unique functionality make it the most open and complete MMI package available under Windows 95, 98, NT and 2000.

Panorama™ offers superb, easy to configure, object oriented graphics, the most comprehensive data archiving, trending and analysis capabilities, including VCR playback, concurrent real-time and time-stamped data handling, plus a powerful alarm and event management module.

It opens up easily your process data to Batch, ERP, MES and office applications (RDBMS, spreadsheet, etc.) through a wide range of links such as DDE, ActiveX, OLE, DLL, ODBC, OPC, ASCII files and Windows messaging. Also included is Microsoft SQL server with the standard Panorama™ software package.

### Features Include:

- Built-in graphics editor
- Graphical project workbench based on Microsoft Explorer
- Powerful editing tools (Drag and Drop)
- Integrated networking (TCP/IP, Intranet, Internet)
- Configurable data archiving, trending and analysis
- Playback archived data in VCR mode
- Built-in simulation tool for testing and debugging
- Dynamic instantiation of views
- Generic PLC's time-stamping for historical and alarm module
- User-configurable alarm management
- Automatic "On-call" to pagers, mobile phones, E-mails, etc.
- Integrated Recipe module
- Integrated SPC module
- Redundancy: data acquisition and server stations
- Open connectivity to office applications



### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



### Europ Supervision

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Fax: (33) 1 69 29 89 90  
e-mail: [g.bourel@europsup.com](mailto:g.bourel@europsup.com)



### Universal Client for OPC Performance Testing and Diagnostics

FactorySoft OPC Inspector is a universal OPC client tool that provides data monitoring, performance measurement, diagnostics, and interface validation for OPC servers. As users confront the challenge of multi-vendor systems built on OPC, they quickly realize the need for tools to assist with evaluating, troubleshooting, and monitoring OPC data. OPC Inspector fulfills all of these needs in an affordable, comprehensive, and easy-to-use application.

#### Features Include:

- Browse and display live data from multiple local and remote OPC servers simultaneously in one window, for easier troubleshooting of systems with large amounts of data or many different servers.
- Measure the response time of different OPC server configurations and tune your application to deliver optimum performance.
- Perform an interface verification test on an OPC server and report on which functions are supported. Avoid integration issues with non-compliant servers.
- Read data from and write data to I/O items in any connected OPC server. Use OPC Inspector as a fast data access tool when you need to view or change data without working through the user interface of your existing client applications.

Free download of a full featured OPC Inspector is available at our web site: [www.factorysoft.com](http://www.factorysoft.com)

#### Type of Product

OPC Client

#### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

Catalog Number	Unit Price	Availability
OPC Inspector	\$295	Now

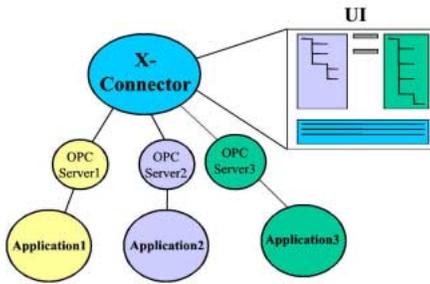


a subsidiary of 

#### FactorySoft, Inc.

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Web: [www.factorysoft.com](http://www.factorysoft.com)



X-Connector enables data transfer between two or more OPC servers. It acts as an OPC client for all OPC servers connected to it. The administration of the connections is easy through a graphical user interface.

By the aid of the X-Connector, the use of the OPC interfaces and the configuration of the cross connection between OPC servers is intuitive. The address spaces of the OPC servers are painlessly available and the values of variables inside OPC servers can be monitored. Data transmission between variables i.e. leafs from one OPC server to the other is configured simply by choosing leafs and joining them together. Joins can be grouped together and parameters of the group and joint can be changed. For example the direction of communication, dead band, gain and active state are changeable. The configuration can be saved to an ASCII-file, which is user modifiable.

X-Connector consists of two parts. The first part is DCOM server, which offers fully programmable interface especially designed for data transmission. The second part is easy-to-use graphical interface that uses the interface exposed by the DCOM server part.

**Features Include:**

- Easy to use graphical user interface
- Data read and write to/from OPC servers
- No programming required
- Communication parameters modifiable through dialogs
- Asynchronous communication used between the OPC servers
- Both real time configuration and editable ASCII database
- Services provided also through a DCOM interface

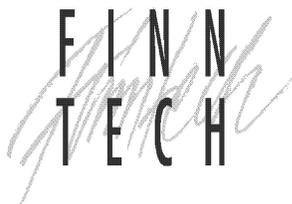
**Type of Product**

OPC Client

**OPC Compatibility**

OPC Data Access 1.0a

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



**FINN TECH**

Finntech Finnish Technology Ltd Oy  
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 FIN-02151 Espoo  
 Finland

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 e-mail: [Kaj.Juslin@vtt.fi](mailto:Kaj.Juslin@vtt.fi)  
 Web: [www.finntech.fi](http://www.finntech.fi)



The Fisher-Rosemount OPC Mirror delivers bi-directional data communications between any OPC servers. Now you can map data directly between OPC servers, by simple drag-and-drop, without a single line of custom code. Because all communication takes place using OPC connections, your data transfers are fast, reliable, and secure.

Getting started with the OPC Mirror couldn't be easier – the configuration application walks you through the process of interconnecting your OPC servers. Browse for the OPC servers that you want to connect, select the data communication direction, and define the communication rate. Once these steps are complete, simply drag-and-drop the data points from one OPC server to the other.

Find out for yourself what over 1,000 others have found OPC Mirror has done for them. Download OPC Mirror Lite freeware at [EasyDeltaV.com/opcmirror](http://EasyDeltaV.com/opcmirror).

### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Features Include:

- Easy to use
- Full read/write access between OPC servers
- Connects up to 50 OPC servers
- Support for both local and remote OPC servers
- Single direction and bi-directional data communications
- User defined data communication rates
- No programming skills required

Catalog Number	Unit Price	Availability
VF1001xxxxx	Consult Factory	Now



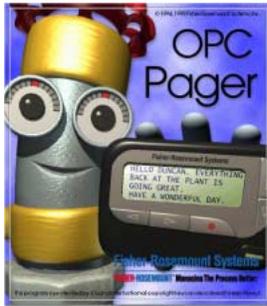
### Fisher-Rosemount Systems, Inc.

8301 Cameron Road  
Austin, TX 78754  
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Phone: (1) 512 835-2190; (1) 800 654-7768  
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Web: [www.EasyDeltaV.com](http://www.EasyDeltaV.com)

*\*See Additional Company Information*

# Fisher-Rosemount OPC Pager Client



Do you need to keep a close watch on your process data? Are you looking for an easy way to be notified when certain data values go "out of bounds"? The Fisher-Rosemount OPC Pager lets you set "triggers" on your OPC data and then notifies you when the values meet your defined criteria. By monitoring data available from your OPC Server, the Fisher-Rosemount OPC Pager will be your constant watchdog, keeping an eye on your critical values and notifying you when they meet your alert criteria.

Configure the OPC Pager to notify only selected people or group several individuals together enabling a single page to be sent to all members of the group simultaneously.

Use existing parameters or add parameters to ensure that you are notified when conditions in the plant need your attention. Modify, add, or delete parameters while the application is running. When the alert is activated, a text message that you provide is sent to the list of recipients. OPC Pager can be configured to re-send the page at a set interval for as long as the trigger condition exists.

**Features Include:**

- Easy-to-use
- Versatile – send alerts to different people or groups of people, each with a different pager service
- Alphanumeric pager notification
- Runs local or remote on any Windows NT based PC
- Works with any OPC Data Access server

**Type of Product**

OPC Client

**OPC Compatibility**

OPC Data Access 2.0  
OPC Data Access 1.0a

Catalog Number	Unit Price	Availability
VF1002xx	Consult Factory	Now



**Fisher-Rosemount Systems, Inc.**

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Web: [www.EasyDeltaV.com](http://www.EasyDeltaV.com)

*\*See Additional Company Information*



CIMPLICITY HMI combines the power of CIMPLICITY software with the Windows 95 and Windows NT operating systems to provide a monitoring and control solution that is easy-to-use, feature rich and affordably priced.

With an intuitive user interface and a host of advanced features, CIMPLICITY HMI puts power and knowledge at your fingertips. It provides engineers, supervisors, managers and operators with the necessary tools for faster application development, reduced development costs and lower project and life cycle costs.

And because CIMPLICITY HMI fully embraces GE Fanuc's commitment to open systems design and distributed architectures, you're able to program and control your entire automation system with one affordable integrated package.

### Type of Product

OPC Server  
OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Features Include:

- Superior Graphics
- Object Explorer – over 2000 clipart symbols and wizards
- Electronic Bookreader – easily search, view and print information
- Point Control Panel – commissioning tool to assure success
- Basic Control Engine with Visual Basic for Applications Scripting
- Distributed Architecture with Full Data Integrity
- Alarm Management – alarm routing, sorting, filtering and blocking capabilities
- Full Featured Trending – analyze real-time and historical data in one chart
- ODBC Database Logging
- Communications products for all major PLCs
- OPC Client support
- CIMPLICITY HMI OPC Server option

Catalog Number	Unit Price	Availability
IC646TDV000	Consult Factory	Now

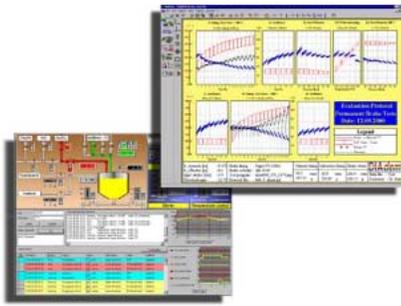


### GE Fanuc Automation

GE Fanuc Automation Information Centers  
Charlottesville, VA 22906

Phone: (1) 800 648-2001  
Web: [www.gefanuc.com](http://www.gefanuc.com)

*\*See Additional Company Information*



**Type of Product**

OPC Client

**OPC Compatibility**

OPC Data Access 1.0a  
OPC Data Access 2.0

**The PC Workshop for Data Acquisition, Control, Analysis and Documentation**

The concept behind DIAdem<sup>®</sup> is to provide an integrated environment for the acquisition and management of measurement data, which not only saves time, but can also adapt to the wide range of applications and users within an organization. From one perspective, DIAdem, can be likened to a PC workshop containing various software "devices" which are used to fulfill the required tasks, similar to traditional instruments. When a particular device is selected, DIAdem, adapts the user interface so that only those functions related to that device are immediately available. The result is a program that helps the user remain focused on the task at hand, is easier to use and also more efficient.

**Features Include:**

- Industrial Automation
- Process and discrete manufacturing industries (pharmaceuticals, chemicals, automotive, metals, food, water and wastewater, etc.)
- Research & Development
- SCADA, HMI, Data Acquisition, Monitoring, Visualization, Alarms & Protocols
- Curve Fitting, Signal Analysis, Statistics, Graphical Analysis
- Crash Analysis
- Presentation Graphics

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now

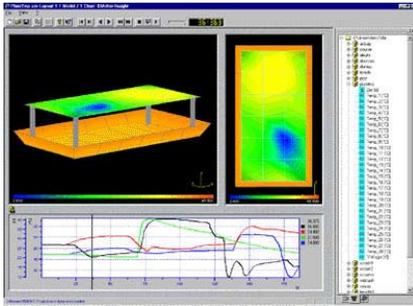


**GfS Systemtechnik GmbH**

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*\*See Additional Company Information*



### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### DIAdem®-INSIGHT is a software module in DIAdem® - The PC-Workshop.

With DIAdem®-INSIGHT you display your data on the object of the measurement. To view the object in its spatial context, simply link the data channels directly to the points on the related grid mode. You can rotate and zoom the model freely in every phase of your evaluation.

In DIAdem®-INSIGHT, you define whether the data is to be displayed as shifting or shading of the grid model. The data can also be displayed as curves and synchronized with the projection onto the model. The model display changes as you move along the curve with the cursor.

With DIAdem®-INSIGHT you can not only examine measured data, you can also display calculation results. You can thus compare data from different areas, such as simulation and measurement.

### Features Include:

- 3D display of measured object, using CAD or FEM models as template
- Interactive moving, rotating and zooming
- Color scale freely-definable
- Shifting: Every grid point can be moved in X, Y and Z direction
- Measurement cursor
- Synchronization: Reference freely selectable
- Navigator: Overview of models and data
- Layout library

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now

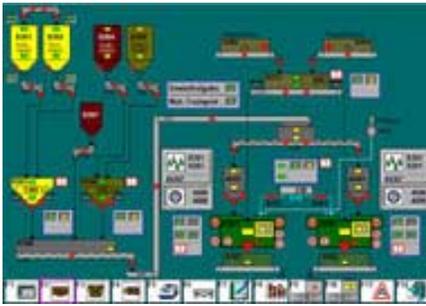


### GfS Systemtechnik GmbH

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Web: [www.gfs-ac.de](http://www.gfs-ac.de)

*\*See Additional Company Information*



### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a

Today GTI® offers all components required for PC-based automation. To this end, an IEC-1131-compliant soft PLC solution has been added to the widely-used HMI system PROCON-WIN®. PROCON-WIN® runs under Windows 95/98 and Windows NT and – in addition to the standard drivers – has an integrated OPC client and server. The PROCON-WIN® OPC client offers the following performance characteristics:

- Simultaneous connection to any number of OPC servers. Requests may be sent to these both locally and within a network.
- Two variants for process data reading: either synchronous (via IOPCSyncIO), or asynchronous via sink links. This variant reduces the network load, particularly with connection to a remote OPC server.
- High fault tolerance through flexible fault detection and the option, where necessary, of carrying out a cold restart on an OPC server.
- Support of fields and string variables.
- The prompts of the optional OPC server interface IOPCBrowseServerAddressSpace allow data for OPC items to be accepted directly in the definition of the PROCON-WIN® process variables during planning.
- The scope of delivery includes a standalone OPC client for convenient diagnostics and fault locating.

### Features Include:

- OPC Client Interface
- Alert, Dataloggin, Recipes, Multiple Language
- Open solution for OPC, DDE, DLL, ODBC and SQL Database
- Easy and direct data exchange with other Windows® applications (Excel, Access...)

Catalog Number	Unit Price	Availability
N/A	980,-/4.480,-DM	Now



### GTI® - control mbH

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Web: [www.gti-control.de](http://www.gti-control.de)

**PHOTO  
UNAVAILABLE**

### Type of Product

OPC Client  
OPC Server

### Saturn for Process Control

Hexatec, an award winning UK Company, offers Saturn OPC, a powerful software suite, for process monitoring and factory management.

Saturn OPC has been especially designed for easy configuration and use. Use set-up wizards to browse for available servers and add items to the Saturn explorer style tree. Then use the powerful drag-drop facility to create dynamic HMI screens, alarms (including e-mail and pager alerts), secure data logs for compliance records and historical trends.

Database and calculation tools allow easy integration with back office applications, to reliably link production and management functions. Saturn OPC is both a client and server of OPC data and supports peer to peer networking, so it can be used alongside other systems to create flexible, factory wide solutions. Faster configuration and direct on-line purchase saves you time and money.

#### Features Include:

- Easy server browsing
- Drag-drop configuration
- Graphics and animation (including Active X)
- Alarm handling
- Security
- Calculation sheet
- Interoperability with Microsoft products
- Database interconnectivity (ADO, DAO, ODBC)
- Real-time and historical trending
- Data presentation (histograms, pie charts, etc)

Trial systems are available for immediate download, and purchase direct from our web store: [www.hexatec.com](http://www.hexatec.com).

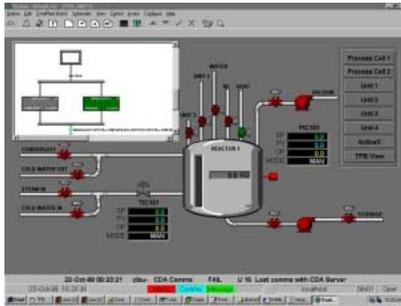
Catalog Number	Unit Price	Availability
N/A	Consult Web Store	Now



#### Hexatec

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Orcherlands  
Hexam, Northumberland NE46 1SB  
England

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Fax: (44) 0 1434 607800  
e-mail: [sales@hexatec.com](mailto:sales@hexatec.com)  
Web: [www.hexatec.com](http://www.hexatec.com)



Honeywell's PlantScape Process system is the first powerful, yet affordable control system to address the full spectrum of hybrid control needs. PlantScape Process not only delivers integrated continuous, batch, and discrete/machine control, it also provides integrated security and HVAC control, safety management, field control and numerous application packages to help you get the most out of your process.

**Features Include:**

- Scalable client/server architecture
- Open system that supports OPC, ODBC, ActiveX, Foundation Fieldbus and ControlNet
- Support for both OPC Client and Server
- State-of-the-art Hybrid Controller
- Global database, graphical tools, and integrated applications
- Powerful, flexible control algorithms that are based on decades of experience in process control
- SafeBrowse™
- Microsoft Visual Basic for display scripting

For other Honeywell locations, please reference our International Directory on the web at: [www.iac.honeywell.com/UserCom/contacts/SalesInt.html](http://www.iac.honeywell.com/UserCom/contacts/SalesInt.html)

**Type of Product**

OPC Client

**OPC Compatibility**

OPC Data Access 1.0a  
OPC Data Access 2.0

Catalog Number	Unit Price	Availability
Consult Factory	Consult Factory	Now



**Honeywell IAC**

16404 N. Black Canyon Highway  
Phoenix, AZ 85053  
USA

Phone: (1) 800 343 0228

Web:

[www.iac.honeywell.com/plantscape/index.stm](http://www.iac.honeywell.com/plantscape/index.stm)



PlantScape® SCADA is specifically designed to meet your complex control needs for dispersed, remote or unmanned operations. Offering reliable communication between remote locations via fiber optic cable, satellite, leased lines, radio and microwave signals. Robust and flexible, PlantScape interfaces with Honeywell devices and a host of third party PLCs, RTUs, flow computers and safety systems.

**Features Include:**

- Scalable architecture
- Out-of-the-box configuration
- Support for both OPC Client and Server
- Remote capabilities including configuration, operator stations, RTUs
- Comprehensive diagnostics
- Open system that supports OPC, ODBC, and ActiveX
- SafeBrowse™
- Microsoft Visual Basic for display scripting
- Advanced alarm management
- Built-in security feature
- Unlimited historical data collection
- Real time and historical trends
- Preconfigured standard reports

For other Honeywell locations, please reference our International Directory on the web at: [www.iac.honeywell.com/UserCom/contacts/SalesInt.html](http://www.iac.honeywell.com/UserCom/contacts/SalesInt.html)

**Type of Product**

OPC Client

**OPC Compatibility**

OPC Data Access 1.0a

Catalog Number	Unit Price	Availability
Consult Factory	Consult Factory	Now



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Phone: (1) 800 343 0228

Web:

[www.iac.honeywell.com/plantscape/index.stm](http://www.iac.honeywell.com/plantscape/index.stm)



### Type of Product

OPC Client  
OPC Server

### OPC Compatibility

OPC Data Access 1.0a

PlantScape Vista is a modular, flexible, HMI system that incorporates leading edge, open-system technologies. Based on Microsoft Windows NT and Windows 95/98, it provides comprehensive features in an economical and easy to use package. PlantScape integrates with a wide range of Honeywell and third-party devices, thereby leveraging existing control investments and enabling complete integration of process information.

#### Features Include:

- Scalable architecture
- Out-of-the-box configuration
- Support for both OPC Client and Server
- Remote capabilities including configuration, operator stations, RTU's
- Comprehensive diagnostics
- Open system that supports OPC, ODBC, and ActiveX
- Microsoft Visual Basic for display scripting
- Advanced alarm management
- Built-in security feature
- Unlimited historical data collection
- Real time and historical trends
- Preconfigured standard reports

For other Honeywell locations, please reference our International Directory on the web at: [www.iac.honeywell.com/UserCom/contacts/SalesInt.html](http://www.iac.honeywell.com/UserCom/contacts/SalesInt.html)

Catalog Number	Unit Price	Availability
Consult Factory	Consult Factory	Now



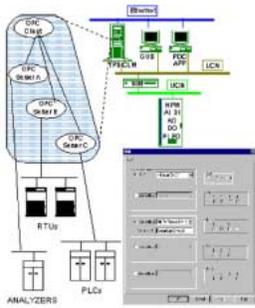
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USA

Phone: (1) 800 343 0228

Web:

[www.iac.honeywell.com/plantscape/index.stm](http://www.iac.honeywell.com/plantscape/index.stm)



The Honeywell TotalPlant System Communications Link Module (TPS/CLM) allows you to integrate data from OPC compliant servers into Honeywell's TotalPlant Solution (TPS) system. The TPS/CLM extends Honeywell's famous "open, yet secure" capabilities down into the field environment. Robust and flexible, the TPS/CLM interfaces with a host of third party PLCs, RTUs, analyzers and control networks.

The standard TPS Network (TPN) concepts and functions also apply to the data collected from OPC servers. The TPS OPC Client runs on a TPS APP Node using the Microsoft Windows NT 4.0 operating system.

**Features Include:**

- Scalable client/server architecture
- Open system that supports OPC, and other network protocols
- Powerful, flexible control algorithms that are based on decades of experience in process control

For other Honeywell locations, please reference our International Directory on the web at: [www.iac.honeywell.com/UserCom/contacts/SalesInt.html](http://www.iac.honeywell.com/UserCom/contacts/SalesInt.html)

**Type of Product**

OPC Client

**OPC Compatibility**

OPC Data Access 2.0

Catalog Number	Unit Price	Availability
Consult Factory	Consult Factory	Now



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### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 2.0  
 OPC Data Access 1.0a  
 Alarms and Events 1.0

**AlarmWorX™32** is a distributed enterprise-wide alarm and events management system. **AlarmWorX32** is the first OPC compliant alarming product based on the new OPC Alarm & Events 1.0 Specification. It includes powerful alarm detection, sorting, filtering, viewing, logging, Alarm Tag Browser and much more.

Alarm Configuration is easy with the Alarm/Event Configuration Explorer. Alarm configurations are saved to an Access or SQL database. Several time saving ActiveX Controls are provided with **AlarmWorX32**, including the Alarm Viewer ActiveX and Alarm Reports ActiveX. The alarm ActiveX controls can be embedded into the **AlarmWorX32** container, Visual Basic, HTML Internet/Intranet based WEB pages or other third party ActiveX containers.

The **AlarmWorX32** logger can capture alarms to Access, SQL 7.0, SQL 2000 or Oracle databases or to a redundant set of printers. Create alarm reports and calculations with Microsoft's built in VBA scripting language. Alarm calculations can be performed on individual tags or groups of tags. Multimedia Alarming delivers specific messages quickly and effectively, whether by sound, text-to-speech, telephone, email, fax, pager, marquee, instant messenger over PA systems. Create personal schedules for escalating notification and live video. Supports TAP and SMS Messaging to telephones.

### Features Include:

- Runs on Windows NT, 95/98, Millennium and 2000
- 32 bit multi-threading, multi-processor design
- OPC real-time alarm summary ActiveX
- Acknowledge individually, by page or area
- Powerful alarm sorting and filtering
- Supports telephones, pagers, email and marquees
- Integrated Visual Basic for applications
- Alarm Server runs as an NT service
- Windows NT based alarm security
- Redundant Alarm Logger printer support
- OPC Historical Alarm Analysis ActiveX

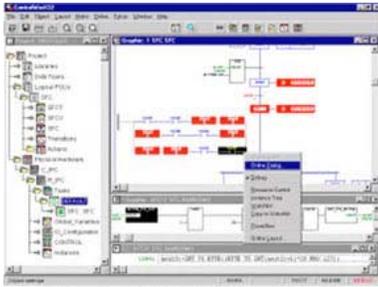
Catalog Number	Unit Price	Availability
AWX32	Consult Factory	Now



### ICONICS

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Windows NT Based Soft Logic Control

### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

**ControlWorX™32** is an OPC compliant, IEC 6-1131 Open Control application that conforms to industry standards. Create, test and debug PLC Soft Logic and process applications with ease. Robust, NT based real-time control provides connectivity to your factory floor devices.

**ControlWorX32** offers users and OEMs a high response, multi-tasking Soft Logic and Process Control engine that runs under Windows NT 4.0 and Windows 2000 providing millisecond execution of your control applications.

**ControlWorX32** Configurator offers many powerful features for the four different development phases of a control application: Edit, Compile, Debug, and Print. Comes complete with support for all five IEC 6-1131 Languages: Ladders (LD), Sequential Function Chart (SFC), Function Block (FB), Instruction List (IL), and Structured Text (ST).

**ControlWorX32** supports the handling of several configurations and resources within one project, including libraries. An easy-to-use, powerful project tree editor is provided for program organization and project management.

Easily integrate with popular HMI/SCADA or custom applications using industry standard OPC Data Access and OPC automation. Open communications standards such as Interbus, CANbus, Profibus, DeviceNet, etc. are supported.

#### Features Include:

- Fully compliant IEC 6-1131 configurator
- Supports all 5 IEC 6-1131 languages
- Mix IEC 1131 graphical languages
- Graphical object oriented editing
- Extensive project management tools
- Multiple documentation facilities
- Powerful integrated debug functions
- FAST, multitasking runtime engine
- On-line configuration and changes
- Open communications to field devices

Catalog Number	Unit Price	Availability
CWX32	Consult Factory	Now



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**Embedded WebHMI™** integrates *WEB Server* technology with traditional Graphics, Trending and Alarming applications, which run on Windows CE or other OS's on target processors. By using a standard WEB Browser such as the Microsoft Internet Explorer, users can view animated real-time displays, live data trends, historical trends from SQL, Access or Oracle and Alarm summaries without requiring the installation of any thin or fat client.

Real-time networking and communications with factory floor information is provided via standard Microsoft DCOM and the industry OLE for Process Control (OPC).

**Embedded WebHMI** not only allows the viewing of display information but also provides for security, data entry and real-time interaction with the application. Unlike other web-based products, **Embedded WebHMI** provides for both reading and writing any value where the proper security is provided. **Embedded WebHMI** is available for all major RISC and Intel processors such as the Hitachi SH3/SH4, MIPS, PowerPC and ARM.

### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0  
 Historical Data Access 1.0

### Features Include:

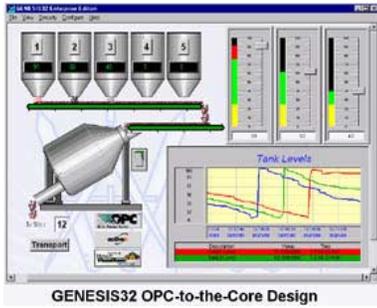
- Provides Web Server capability to CE
- Serves OPC real time data
- Supports XML / SOAP communications
- Supports OPC over TCP communications
- Works over the Internet with firewall and routers
- Zero install Web capability
- Supports ARM, SH3/SH4, MIPS and Intel
- Delivers ActiveX Controls and HTML Pages
- Ideal for blind remote controllers
- Works with IE 4.0 and 5.0



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**GENESIS32™** Enterprise Edition was designed from the ground up to take maximum advantage of Microsoft's DNA architecture, which includes: VBA, COM, DCOM and WEB enabling ActiveX technology. OPC is at the core of the ICONICS Award Winning family of 32-bit products and is the only product based exclusively on OPC.

**GENESIS32** offers a totally nonproprietary set of open and scalable automation tools that provide the ultimate freedom of choice.

**GENESIS32** is ideally suited for many applications requiring Visualization, Supervisory Control, Data Acquisition, Advanced Alarming, SPC/SQC, Report and Recipe Management and much more.

**GENESIS32** seamlessly integrates with Batch, MES, MRP, MS Office and Information systems. Create enterprise and distributed applications using the latest OPC enabling technology. Interface to applications such as MS SQL, Oracle, Access, Excel and E-mail.

**Features Include:**

- Runs on Windows NT, 95/98, Millennium and 2000
- Full DCOM based Internet / Intranet support
- 32 Bit multi-threading, multi-Processor
- Full featured HMI graphics
- Integrated DCS style redundancy
- Scalable distributed architecture
- Extensive library of 2D and 3D symbols
- Includes data logging using ADO /OLEDB
- Alarm printing and logging
- Powerful global multi-threading VBA scripting

**Type of Product**

OPC Client

**OPC Compatibility**

- OPC Data Access 2.0
- OPC Data Access 1.0a
- Alarms and Events 1.0
- Historical Data Access 1.0

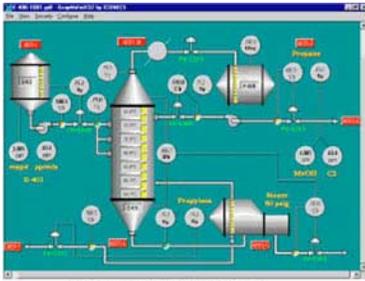
Catalog Number	Unit Price	Availability
GEN32	Consult Factory	Now



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VBA Based OPC HMI Client

### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

Award-winning **GraphWorX™32** provides Object Oriented, scalable HMI applications for Windows 95, 98, NT, Millennium and 2000 developed using the industry's simplest, most powerful and complete set of drawing and animation tools. Empower your operators with dazzling HMI visualizations of your manufacturing process.

Easily connect to PLCs, I/O Devices, DCS Systems, and popular I/O Buses, such as Profibus, Interbus, CANbus and DeviceNet using industry standard OPC.

Combine drawings, operating procedures, quality reporting, and recipe management directly into your operator displays using your choice of several powerful ActiveX Controls and Visual Basic for Applications (VBA) Scripting Language.

Integrate with Corporate Information Systems, Batch, MES, ERP and standard MS Office applications such as Excel, Access and SQL. Use **GraphWorX32** as your Web Browser plug-in for Internet, Intranet and remote visualization.

### Features Include:

- Runs on Windows NT, 95/98, Millennium and 2000
- Publish real-time graphics directly to WEB Servers
- Designed with OPC-To-The-Core™ technology
- 32 Bit, multi-threading, multi-processor
- WEB based browser plug in
- Tightly integrated Microsoft VBA
- Powerful AutoCad-style display layers
- Very fast dynamic animation
- Select from over 2000 3D crafted symbols
- Built in expressions and calculations

Catalog Number	Unit Price	Availability
GWX32	Consult Factory	Now



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**MobileHMI** is the first product to integrate the "Plug and Play" OPC software automation standard with mobile wireless Web phone technology. Use state-of-the art Mobile Phone technology where unattended maintenance and remote operations is a must. Building Controls, Water Treatment, Automotive and many other applications are ideal for the MobileHMI!

Customize your **MobileHMI** applications by selecting exactly which real-time OPC information will be displayed from a wide selection of ICONICS and third-party OPC Servers. Users can also define exactly what information they wish to have displayed on their Wireless Web Phones. Real-time alarming, live and historical trend information as well as information from Access, MS SQL, Excel and other databases can be displayed with the **MobileHMI**.

### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0  
 Historical Data Access 1.0

### Features Include:

- Wireless Mobile Phone reaches the factory floor
- Mobilize your work force with WEB Phones
- Live real-time OPC data updates
- 2-Way mobile communications
- Instant notification of OPC Alarms on Mobile Phones
- Phone browse to Excel spreadsheets and reports
- View Historical Data from standard databases
- Reliable configured security
- Advanced mobile configuration utility
- Powerful WAP phone emulation



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**Pocket AlarmWorX™** provides enterprise-wide alarm and events management for Windows CE devices. View and acknowledge any alarm on locally connected Windows CE devices or mobile CE computers.

**Pocket AlarmWorX** is the first OPC alarm client for Windows CE and is based on the new OPC Alarm & Events 1.0 Specification. It includes powerful alarm notification, sorting, filtering, viewing, multimedia and much more.

Use CE ToolWorX to create lightweight OPC client applications on Windows NT/95/98, Millennium and 2000. Download light client applications to Windows CE devices. Possible uses include; building controls maintenance, automotive, home security and many other mobile manufacturing applications. Be notified of your alarms wherever you may be!

Use **Pocket AlarmWorX** with wireless Ethernet for remote mobile capability and connect to the enterprise Alarm Summary and alarm acknowledgment capabilities. Connect to any OPC compliant Alarm and Event Server and view your alarms on mobile Windows CE devices and be notified using wireless networking.

### Features Include:

- Run on Windows CE V2.X and higher
- 32 Bit, multi-threading, multi-platform
- Supports strong ARM, SH3/SH4, MIPS and Intel processors
- Ideal for embedded applications
- Support for TCP/IP, serial or wireless
- Designed with OPC-To-The-Core™
- Connect to any OPC Alarm/Event Server
- Acknowledge by point, page or area
- Remote Alarm Configuration Explorer
- Alarm calculations and expressions

### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0

Catalog Number	Unit Price	Availability
CE-AWX	Consult Factory	Now



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### Type of Product

OPC Client  
OPC Server

### OPC Compatibility

OPC Data Access 2.0  
OPC Data Access 1.0a

**Pocket DataWorX™** provides patent pending enabling technology, which includes OPC server to OPC server Data Bridging.

Unique Data Bridge technology allows the connectivity of any OPC Server to any other OPC Server, providing Plug and Play interoperability. For example, connect an AB OPC Server to a Siemens OPC Server and share data easily and seamlessly. Data can also be manipulated through expressions and calculations.

**Pocket DataWorX** is fully compliant with OPC 1.0a and OPC 2.0. Plug and Play with any OPC compatible Windows CE based HMI, SCADA and control application.

**Pocket DataWorX** is based on COM / DCOM technology and supports local, Intranet or Internet operation. Unique DCOM technology allows full networking with the enterprise.

**Pocket DataWorX** comes complete with OPC based remote administration and configuration Explorer for rapid configuration, integrated real-time monitoring of OPC tags and a powerful OPC Universal Tag Browser for Internet and Intranet tag viewing.

### Features Include:

- Runs on Windows CE V2.X and higher
- Ideal for embedded applications
- Designed with OPC-to-the-Core™
- Support for TCP/IP, serial and wireless
- OPC Server to OPC Server data bridge
- Supports ARM, SH3/SH4, MIPS and Intel
- Integrated real-time data monitor
- 32 bit multi-threading design
- Remote configuration and administration
- Built-in expressions and calculations

Catalog Number	Unit Price	Availability
CE-DWX	Consult Factory	Now



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### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0  
 Historical Data Access 1.0

**Pocket GENESIS™** is the first suite of powerful automation tools, with a scalable architecture for running Human Machine Interfaces (HMI) on palm-sized RISC or Intel based devices. Ideal for small machine control or used in very large, networked distributed applications, **Pocket GENESIS** is the only suite of applications that uses OPC-To-The-Core™ technology for plug and play connectivity.

**Pocket GENESIS** provides three applications for running HMI, SCADA and WEB enabling server capabilities. The first of the scalable applications is Pocket GraphWorX for performing advanced HMI functions. Pocket AlarmWorX provides traditional alarming and acknowledgment capabilities using the OPC Data Access and OPC Alarm and Events plug-and-play standards. Also included is Pocket TrendWorX, which replays real-time and historical data in a number of trend chart display formats. Lightweight historical data query directly to and from native Microsoft SQL 7 Server and Microsoft Access databases integrates CE devices with the enterprise.

ICONICS **Pocket GENESIS** can network using LAN, WAN, Internet/Intranet or wireless communications with virtually any third-party enterprise productivity applications or manufacturing execution system (MES).

**Pocket GENESIS** is a Windows CE, full 32-bit multi-threaded, distributed client/server application that is based on ICONICS powerful OPC-To-The-Core technology. The product is compliant with the OPC Data Access (DA), OPC Alarm and Events (AE) and Historical Data Access (HDA) specifications.

#### Features Include:

- Runs on Windows CE V2.X and higher
- Supports popular CE devices
- 32 Bit Multi-threading
- Supports ARM, SH3/SH4, MIPS and Intel
- Includes Industrial DCOM for Windows CE
- Designed with OPC-To-The-Core™
- Trending and Historical Data Access
- Logging and Reports using SQL and Access
- Provides high performance HMI
- Remote alarm capabilities

Catalog Number	Unit Price	Availability
GENCE	Consult Factory	Now



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### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0  
 Historical Data Access 1.0

**Pocket GENESIS™** is the first suite of powerful automation tools, with a scalable architecture for running Human Machine Interfaces (HMI) on Windows powered Pocket PCs and Windows CE devices. Ideal for small machine control or used in very large, networked distributed applications, **Pocket GENESIS** is the only suite of applications that uses OPC-To-The-Core™ technology for plug and play connectivity.

**Pocket GENESIS** provides three applications for running HMI, SCADA and WEB enabling server capabilities. The first of the scalable applications is Pocket GraphWorX for performing advanced HMI functions. Pocket AlarmWorX provides traditional alarming and acknowledgment capabilities using the OPC Data Access and OPC Alarm and Events plug and play standards. Also included is Pocket TrendWorX, which replays real-time and historical data in a number of trend chart display formats. Lightweight historical data query directly to and from native Microsoft SQL 7 and SQL 2000 Server and Microsoft Access databases integrates CE devices with the enterprise.

Also included with the suite of applications is Industrial DCOM. ICONICS **Pocket GENESIS** can network using LAN, WAN, Internet/Intranet or wireless communications with virtually any third-party enterprise productivity applications or manufacturing execution system (MES).

### Features Include:

- Visualization, trending and alarming for Pocket PC
- Wireless connectivity to plant data
- Modular HMI automation tools
- Corporate database integration
- OPC real-time connectivity
- Remote alarm management
- Historical data trending
- Universal development tool
- Manage key performance indicators on-line
- Supports multiple Pocket PC platforms



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### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

**Pocket GraphWorX™** based on the award-winning GraphWorX32, provides object oriented, scalable HMI applications for Windows CE. Run the industry's simplest, most powerful and complete set of drawing and animation capabilities. Display visualization of your manufacturing process on Windows CE devices.

Easily connect to PLCs, I/O Devices, DCS Systems, and popular I/O Buses, such as Profibus, Interbus, CANbus and DeviceNet using industry standard OPC.

Using CE ToolWorX, you can rapidly create lightweight OPC client applications, on Windows NT/95/98, Millennium or Windows 2000, test them and then download your applications to any Windows CE industrial or hand held device. Possible uses include; machine control, building controls maintenance, automotive, home security and mobile manufacturing applications. Ideal for embedded controllers and instruments requiring simple to complex HMI interfaces.

Use **Pocket GraphWorX** with wireless Ethernet for remote mobile capability. Fully operational HMI interface includes security and data entry capability.

#### Features Include:

- Runs on Windows CE V2.X and higher
- 32 Bit, multi-threading, multi-processor
- High performance object-based graphics
- Ideal for embedded applications
- Supports ARM, SH3/SH4, MIPS and Intel processors
- Designed with OPC-To-The-Core™
- Very fast dynamic animation
- Built-in math, expressions and calculations
- Import popular display formats: e.g. BMP, Extended Metafile (EMF)
- Extensive OLE automation API support

Catalog Number	Unit Price	Availability
CE-GWX	Consult Factory	Now



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**Pocket TrendWorX™** is a powerful, real-time trending reporting and analysis tool for Windows CE. **Pocket TrendWorX** seamlessly integrates with enterprise-wide information systems providing historical data on Windows CE mobile and embedded devices.

**Pocket TrendWorX** is based on the latest OPC HDA Specification and plug and plays to any OPC HDA historical data server. **Pocket TrendWorX** offers an open solution to applications requiring scalable and distributed real-time historical replay and lightweight Windows CE clients.

Based on Microsoft COM/DCOM, **Pocket TrendWorX** connects via wireless networks to the Internet and Intranet based applications. Microsoft's ADO/OLEDB technology is at the core of **Pocket TrendWorX**. OPC HDA provides the standard COM interface for replay of real-time and historical data. **Pocket TrendWorX** integrates with Microsoft Access and Microsoft's SQL 7.0, using ADO and other popular OLEDB database technologies.

### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Historical Data Access 1.0

### Features Include:

- Runs on Windows CE V2.X and higher
- Ideal trends, mix real-time and historical data
- Supports ARM, SH3/SH4, MIPS and Intel
- Supports Access, SQL, Oracle and Exchange
- Trend multiple tag variables simultaneously
- Multiple trend styles such as strip chart
- Powerful Expressions and Calculations
- Windows NT-like security
- Graphical trend data analysis
- View trend information using Web browsers

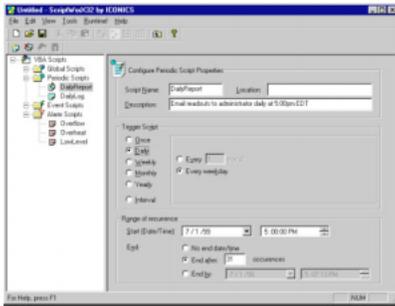
Catalog Number	Unit Price	Availability
CE-TWX	Consult Factory	Now



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**ScriptWorX™ 32** is a powerful application that allows the creation and management of Visual Basic for Applications (VBA) 6.0 scripts. User defined VBA scripts can perform OPC read and write operations to any OPC Server, which interfaces to factory floor devices such as PLCs and other OPC compliant Servers.

**ScriptWorX32** unique multi-tasking, multi-processor environment allows multiple scripts to run concurrently. ScriptWorX32 takes maximum advantage of VBA 6.0 multi-tasking and multi-threading capabilities. Simultaneously perform calculations, manage databases, and execute any operation available in the VBA language to access reports or perform recipe operations.

**ScriptWorX32** comes complete with several powerful scheduling functions to manage data and interface to Batch, MES, MRP or corporate systems. Integrate factory floor OPC information with corporate information systems such as Baan, SAP, Microsoft's SQL 7.0, SQL 2000, Access and Oracle.

Scripts can be scheduled to simultaneously execute based on time and date, alarms or data events from any OPC 1.0 or 2.0 server. A built in *Script Monitor* function provides tuning and analysis of script execution. Powerful *Script Wizard* function aids in the code creation of commonly used scripts.

#### Features Include:

- Runs on Windows NT, 95/98, Millennium and 2000
- Powerful VBA 6 scripting container
- Create VBA scripts based on Script Wizard
- Execute scripts based on time schedules, data events, and alarms
- Script Monitor provides analysis capability
- Runs as an NT service on NT and Win 2000
- 32 Bit, multi-threading, multi-platform
- Provides Global Scripting to other applications
- Full OLE Automation interface provided
- Integrates with any third party applications

### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0

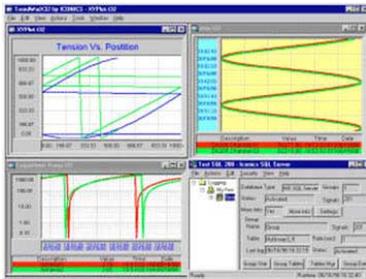
Catalog Number	Unit Price	Availability
SWX32	Consult Factory	Now



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OPC HDA Trending

### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Historical Data Access 1.0

**TrendWorX™ 32** is a powerful collection of real-time trending, historical data logging, reporting, and analysis tools which seamlessly integrates with enterprise-wide information systems. Based on the OPC Historical Data Access 1.0 specification for creating Plug and Play historical data servers and clients, **TrendWorX32** offers an open solution to applications requiring scalable and distributed real-time performance.

The powerful Microsoft based ADO/OLEDB data logging provider is at the core of **TrendWorX32**. OPC HDA provides the standard COM and OLE interface for ICONICS ActiveX Trend Viewer Control to display real-time and historical data, separately or simultaneously.

Several trend display types are supported, such as time based, X vs. Y, Logarithmic, Bar type, the popular Strip Chart Recorder and even circular charts!

Acquire thousands of data points and organize them into groups for very fast and efficient replay of historical and real-time information. Use the built in VBA to create reports, calculations and data analysis.

**TrendWorX32** integrates with Microsoft Access, Microsoft's SQL 7.0, SQL 2000 and Oracle using ADO and OLEDB database technologies.

#### Features Include:

- Runs on Windows NT, 95/98, Millennium and 2000
- 32 Bit, multi-threading, multi-processor
- Tightly integrated Microsoft VBA
- Mix real-time and historical data
- Trend multiple tags, variables simultaneously
- Powerful expressions and calculations
- Persistent background trending
- Graphical trend data analysis
- Windows CE configuration support
- Supports Wonderware's ActiveX container
- Hot database switching
- Database redundancy/merging

Catalog Number	Unit Price	Availability
TWX32	Consult Factory	Now



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### Type of Product

OPC Client

### OPC Compatibility

Historical Data Access 1.0  
 Alarms and Events 1.0  
 OPC Data Access 2.0  
 OPC Data Access 1.0a

**WebHMI™** provides OPC and visualization information from any ICONICS GENESIS32 OPC based product to any computer running Microsoft's Internet Explorer Browser. Perform remote browsing over a corporate Intranet or Internet. Based completely on Microsoft DNA architecture, **WebHMI** uses ActiveX, DCOM or XML/SOAP and OPC over TCP technology to provide Web based visualization. The **WebHMI** is exclusively designed from the ground up to take advantage of Windows NT, 95/98, Millennium, Win 2000 and Windows CE.

View over the Internet or Intranet traditional operator real-time displays with animation, live data trends, reports and alarms. Integrate your HMI application with traditional Microsoft Browsers to perform remote and low cost monitoring of key manufacturing information.

Real-time networking and communications with factory floor information is provided via standard Microsoft DCOM or XML/SOAP and OPC over TCP using the industry standard OLE for Process Control (OPC) standard.

**WebHMI** not only allows the viewing of display information but also provides for security, data entry and real-time interaction with your application.

#### Features Include:

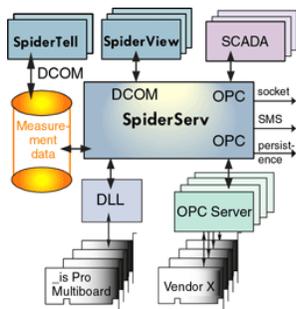
- Runs on Windows NT, 95/98, Millennium & Windows 2000 PC
- Thin WEB Client
- Enables inexpensive MS Internet Explorer or Netscape
- Zero install Web capability
- Delivers ActiveX Controls and HTML Pages
- Requires Internet Explorer 4 or 5
- Provides NT level security
- Ideal for viewing remote HTML controllers
- Supports new XML / SOAP based communications
- Supports high speed OPC over TCP communications



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### Type of Product

OPC Server  
OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

Measurement data acquisition, storage and evaluation centered in one hand – the modular built data logger \_is SpiderLog offers such varied and practically oriented features. When listening on Profibus, the logger does not limit the performance of the connected channels in any way. When using the OPC client interface, the logger is able to acquire data from any OPC source. Logged data can be received from the \_is SpiderLog system through a variety of other SW interfaces.

An on-line visualizing console and an off-line evaluation tool are included. The user has access to server functionality locally as well as remotely via a network.

### Features Include:

- Profibus protocols: DP, DP/V1, PA
- Up to 16 physical channels
- Transmission speed: 9.6 kbit/sec. to 1.5 Mbit/sec.
- Measured items maximum 1000
- Scan rate minimum 1 sec.
- Interfaces: OPC Client, OPC Server, ODBC, Socket
- Operating Systems: Windows 9x, NT, 2000

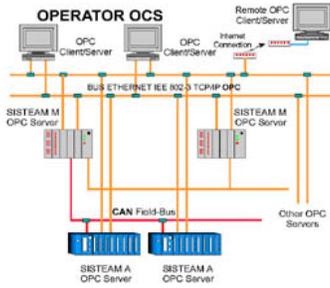
Catalog Number	Unit Price	Availability
_is SpiderLog	Consult Factory	Now



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Web: [www.ifak-system.com](http://www.ifak-system.com)



### OPERATOR OCS, SISTEAM M & SISTEAM A

INGELECTRIC-TEAM's Automation Solution consists of an OPC Standard based configuration with its OPERATOR OCS (high-performance control and supervision software), SISTEAM M (powerful integrated process control and regulation system) and SISTEAM A (modular small Programmable Logic Controller). The philosophy of this solution is to offer the users a very powerful system with totally user-friendly configuration tools and at a very attractive price.

#### Features Include:

- OPERATOR OCS: Windows NT 4.0 Operative System
- OPERATOR OCS: Client-Server Architecture based on OPC standards
- OPERATOR OCS: TCP/IP Network Transport Protocol
- SISTEAM M: Multiprocessor architecture connected into a IEEE1296 (MULTIBUS II) backpanel
- SISTEAM M & SISTEAM A: Very short response time (<1ms) for complicated algorithmic requirements
- SISTEAM M & SISTEAM A: IEC1131-3 standard programming language
- SISTEAM M & SISTEAM A: Synchronous multitask control system type of product

#### Type of Product

OPC Server  
OPC Client

#### OPC Compatibility

OPC Data Access 1.0a  
Alarms and Events 1.0

Catalog Number	Unit Price	Availability
N/A	Consult Factory	1Q '99

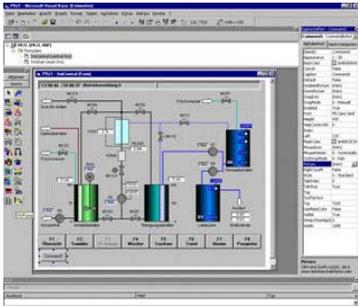


**ingelectric-team,s.a.**

#### INGELECTRIC-TEAM

Parque Tecnológico, Ed. 106  
48170 Zamudio  
Spain

Phone: (34) 94-420 97 00  
Fax: (34) 94-420 96 80  
Web: [www.ingeteam.com](http://www.ingeteam.com)



An object orientated software for every situation. Scalable from simple to complex Client-Server-applications (HMI and SCADA) and Internet/Intranet applications. What is so special about VisiWin®32 is that it can be integrated into Visual Basic (Version 5 + 6). All visualization objects are ActiveX components that can be adjusted and set via their properties. The VisiWin®32 ActiveX components are directly linked to the variables of the process database. Individual adjustments and adaptations can be made using the elements of Visual Basic. VisiWin®32 applications therefore “only” underlie the hardware requirements of your system and your own creativity of course. A large number of communication drivers are also available should no hardware be supplied as an OPC-Server. VisiWin®32 is the best choice for Automation technology. VisiWin®32 makes Visual Basic visually visualization!

### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a

### Features Include:

- OPC Client Interface
- Process Database Editor
- Alarms, Trends, Recipes, Online Language Change, Static and Moving Symbols ... as ActiveX-Components
- Hierarchy and Password Levels
- Easy and direct data exchange with other Windows® applications (Excel, Access, ...)

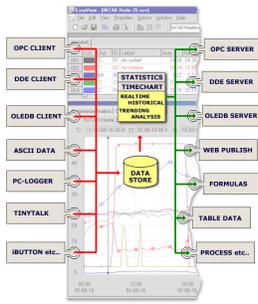
Catalog Number	Unit Price	Availability
45 000 020	4.850,-DM	Now



### INOSOFT GmbH

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D-32120 Hiddenhausen, (Lippinghausen)  
Germany

Phone: (49) 05221 16 66-02  
Fax: (49) 05221 16 66-50  
e-mail: [sales@inosoft.com](mailto:sales@inosoft.com)  
Web: [www.inosoft.com](http://www.inosoft.com)



In its role as a client, EasyView is a generic historian with state-of-the-art realtime and historical trending that combines ease of use and advanced analytical capabilities. EasyView provides a cost effective turnkey solution for almost all data logging requirements. Due to its modular and open design the EasyView system is highly configurable, enabling advanced, as well as, simple recording and data management architectures.

#### Features Include:

- State-of-the-art realtime trending.
- Modular design through plug-in architecture.
- Project management for recording tasks.
- Advanced grouping of both recordings and projects.
- Support for simultaneous logging on multiple sources.
- OLEDB plug-in for external data access and storage.
- User definable key values and graph formulas.
- Many different types of data views available.
- Data reduction management.
- Drag'n'drop import/export of data.

#### Type of Product

OPC Server  
OPC Client

#### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0  
Historical Data Access 1.0

Catalog Number	Unit Price	Availability
N/A	\$355 - \$1950	Now



#### INTAB Interface-Teknik AB

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Web: [www.intab.se](http://www.intab.se)



### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a

### Component Object Software for Manufacturing

FIX Dynamics is the first fully-integrated family of component object solutions for manufacturing. FIX Dynamics is built upon a combination of industry standard and Microsoft technologies including Visual Basic for Applications (VBA), OLE for Process Control (OPC), COM/DCOM, ActiveX/DNA, and others. With these technologies, FIX Dynamics provides users with unprecedented easy integration of FIX® software components and third-party applications. The FIX Dynamics family of software applications provides true plug-and-play interoperability with third-party software applications designed to support the OPC Interface Specification.

#### Features Include:

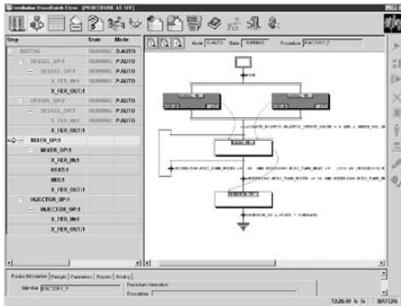
- Powerful Plug & Solve® Framework
- Open, Componentized Object Architecture
- A single, integrated WorkSpace® Development Environment
- Microsoft Visual Basic® for Applications (VBA) Scripting
- Comprehensive OPC (OLE for Process Control), COM/DCOM and ActiveX® Support
- Increased security and reliability
- Extensible configuration wizard architecture
- Extensive internet support
- Enhanced alarm management
- Complete networking capabilities



#### Intellution, Inc.

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Fax: (1) 781 551-3413  
Web: [www.intellution.com](http://www.intellution.com)



### Batch Process Monitoring and Control Software Overview

Intellution's FIX Dynamics VisualBatch software is a fully-graphical, easy to use batch control software application that enables you to model your plant, manage recipes, execute batches, produce electronic batch records, and generate reports on all your batch processes. Whether your industry is Food and Beverage, Chemical and Specialty Chemicals, Pharmaceutical or Consumer Packaged Goods, VisualBatch, features all the automation tools you need for precise control over every facet of your batch manufacturing operation. VisualBatch provides true plug-and-play interoperability with third-party software applications designed to support the OPC Interface Specification.

#### Features Include:

- Create a complete batch automation and control solution from a single graphical development environment.
- Simulate batches without first having to develop your control logic or connect to the plant floor.
- Create master recipes to produce any quantity of end product on any line you choose.
- Dynamically bind and re-bind equipment at multiple stages in a procedure's life cycle.
- Generate up-to-the second, accurate, real-time batch information when you want it.
- Connect easily to any standard relational database application, such as Microsoft SQL Server or Oracle, and easily share data throughout the organization.

#### Type of Product

OPC Client

#### OPC Compatibility

OPC Data Access 1.0a



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Intellution's FIX OPC Client software provides true plug-and-play connectivity between the company's FIX automation software applications and third-party manufacturing devices supporting the OPC server interface.

**Features Include:**

- Easy-to-Use Graphical User Interface
- Completely Configurable from Custom COM/OLE Automation Applications
- Create Groups and Items Automatically
- Configure and Control Remotely
- Exception-Based Processing
- Lets you Enable or Disable Individual Servers, Groups, and Items
- Provides Latched Data
- Time/Date Stamp for Data and Alarms
- Asynchronous or Synchronous I/O
- Device or Cache Reads
- Enables Browsing of OPC Servers

**Type of Product**

OPC Client

**OPC Compatibility**

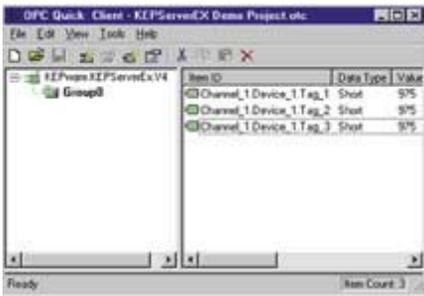
OPC Data Access 1.0a



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KEPServerEX's OPC Quick Client provides a straightforward OPC client that can be used to monitor and test your OPC projects. The OPC Quick Client supports connections to multiple OPC servers. Built-in test routines can be used to exercise your OPC server applications. Verbose OPC results are posted to the Quick client's event log. The OPC Quick client will display information on server/group/item properties as well as OPC interface availability.

**Features Include:**

- Supports 1.0a and 2.0 Data Access OPC Servers
- Supports multiple server connections.
- Supports multiple groups per server connection.
- Implements full tag-browsing interface with filtering options.
- Supports a wide range of data formats including strings and arrays.

Visit our web site, [www.OPCSource.com](http://www.OPCSource.com) and download our Server Super Pack that contains a demo version of every OPC Server we offer and includes an evaluation version of the OPC Quick Client.

**Type of Product**

OPC Client

**OPC Compatibility**

OPC Data Access 1.0a  
OPC Data Access 2.0

Catalog Number	Unit Price	Availability
Consult Factory	\$295.00	Now



**KEPware, Inc.**  
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KEPServerEX's goal is to make using OPC technology easier regardless of the type of OPC client application you may be using. For many of your applications, Microsoft's Visual Basic provides an ideal environment to create custom industrial applications. Until now using OPC technology in your Visual Basic application might have left you with more questions than answers. The simple and complex VB examples included with KEPServerEX are well commented and provide additional pointers for using OPC servers in your VB applications. The complex OPC example implements a complete OPC test client in VB with the ability to handle multiple OPC servers, multiple OPC groups, and multiple OPC tags. No example of OPC technology would be complete without OPC tag browsing and the complex example gives you a complete tag browsing interface. All of the source code for these examples is provided in the KEPServerEX download.

## Type of Product

OPC Client

## OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Features Include:

- Supports 1.0a and 2.0 Data Access OPC Servers
- Supports multiple server connections.
- Supports multiple groups per server connection.
- Supports multiple tags per group.
- Implements full tag browsing interface with filtering options.
- Supports a wide range of data formats including strings and arrays.
- Utilizes asynchronous updates for optimal performance on both reads and writes.
- Provided OPC object classes can easily be expanded for additional functionality.
- Can be used as a foundation for VB based OPC clients.
- Works with Visual Basic 5.0 or greater.

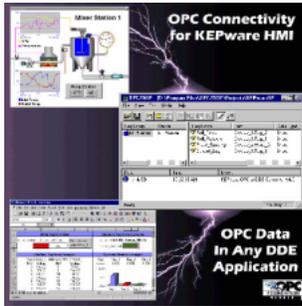
Visit our web site, [www.OPCSource.com](http://www.OPCSource.com) and download our Server Super Pack that contains a demo version of every OPC Server we offer and includes an evaluation version of the OPC Quick Client.

Catalog Number	Unit Price	Availability
Consult Factory	<b>FREE</b>	Now



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Web: [www.OPCSource.com](http://www.OPCSource.com)



### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

KEPware, Inc. announces the release of their OPC (Object Linking for Process Control) to DDE Converter. Using the OPC to DDE Converter, KEPware's own KEPware HMI can access data from any OPC Server. Connections to local and remote OPC servers are also supported. Simple configuration of the converter is aided through extensive short cut menus. Tag browsing of OPC servers is also supported making tag setup a snap. The OPC to DDE converter is not just for use with KEPware HMI. Any standard Windows DDE application or AdvancedDDE application can now get access to OPC data quickly and easily. Stop worrying about connectivity for your Legacy applications and call KEPware to learn more about the OPC to DDE Converter.

#### Features Include:

- Multi-threaded design insures optimum performance.
- Supports Tag browsing on local and remote OPC servers.
- Configuration wizards speed set-up.
- On-line help provided.
- Supports standard DDE and AdvancedDDE.
- No runtime or license fee.

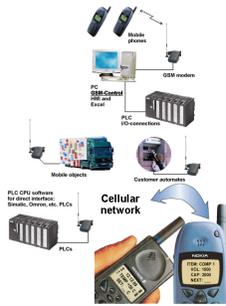
Visit our web site, [www.OPCSource.com](http://www.OPCSource.com) and download our Server Super Pack that contains a demo version of every OPC Server we offer and includes an evaluation version of the OPC Quick Client.

Catalog Number	Unit Price	Availability
KEPS-OPC2DDE	\$695	Now



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## Type of Product

OPC Server  
OPC Client

## OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

GSM-Control is MS Windows software, developed by Klinkmann, which runs either as an independent control and report center or as an integrated part of an existing application, managing the GSM traffic. GSM-Control has built-in both OPC Server and OPC Client functionality to interface with other MS Windows OPC-compliant applications.

The system uses standard mobile phones as two-way operating terminals. Different automation and service units can be connected to the same system through cheap GSM modems installed in the serial ports of the device.

GSM-Control allows the system to operate on a strict event-only basis without continuous polling of the upper level, which minimizes the transfer costs and eliminates any bottlenecks in the data transfer.

GSM-Control has many special functions: OPC and DDE support, simulated data traffic to facilitate configuring, e-mail/Internet connections, ability to run as a MS Windows NT Service etc.

The Klinkmann software library includes complete GSM connection programs for several common automation devices, e.g. Simatic S7 and Omron PLCs – with the relevant programs the devices can be connected to the GSM network and to GSM-Control, through a GSM modem installed in the serial port.

### Features Include:

- Support COM and DCOM client interfaces
- Support tag browsing
- Can run as MS Windows NT Service
- Extensive support for monitoring and controlling communication with PLCs or control devices incl. internal data logging to screen and file
- Online help available
- Built-in DDE (incl. FastDDE) support

Fully functional 1-hour demo versions including user manuals and prices of all Klinkmann OPC Servers are available at: [www.klinkmann.com](http://www.klinkmann.com)

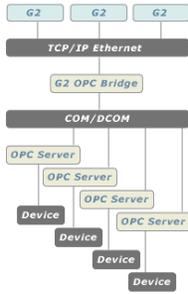
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



### KLINKMANN

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The G2-OPC (OLE for Process Control) Bridge enables G2 applications to access plant and process data from any OPC-compliant server. The bridge acts as an OPC client on behalf of G2, allowing one or more G2 applications to simultaneously read and write data to multiple OPC-compliant servers.

Free downloads are available from Matrikon's web site: [www.matrikon.com/download](http://www.matrikon.com/download)

**Features Include:**

- Fast (3000+ values/second)
- Reliable
- Flexible
- Easy to Use
- Point & Click Configuration
- Extensive Error Checking & Reporting
- Real-Time Configuration

**Type of Product**

OPC Client

**OPC Compatibility**

OPC Data Access 1.0a  
OPC Data Access 2.0

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now

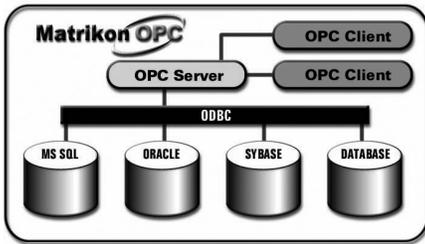


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Web: [www.matrikon.com/opc](http://www.matrikon.com/opc)

*\*See Additional Company Information*



The RTAP-OPC scan task enables RTAP environments to access plant and process data from any OPC-compliant server. The scan task acts as an OPC client on behalf of RTAP, allowing RTAP applications to simultaneously read and write data to multiple OPC-compliant servers.

Free downloads are available from Matrikon's web site: [www.matrikon.com/download](http://www.matrikon.com/download)

**Features Include:**

- Access data from any OPC compliant server
- Responsive multithreading design
- Reliable
- Flexible
- Easy to Use
- Includes Matrikon OPC Explorer and Matrikon OPC Simulation Server for Simulation and Testing purposes

**Type of Product**

OPC Client

**OPC Compatibility**

OPC Data Access 1.0a  
 OPC Data Access 2.0

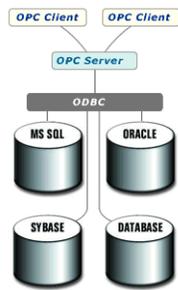


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 Web: [www.matrikon.com/opc](http://www.matrikon.com/opc)

*\*See Additional Company Information*



The Matrikon OPC Client for ODBC captures process data from an OPC Data Access server, and passes it to an ODBC compliant database. For instance, you can use this application to archive your process data in Oracle, Microsoft Access, Microsoft SQL, Sybase, or any other database that supports ODBC. This client supports multiple simultaneous connections to multiple OPC servers and ODBC databases. The OPC server is self-optimizing to provide easy, efficient, and reliable data transfer.

Free downloads are available from Matrikon's web site: [www.matrikon.com/download](http://www.matrikon.com/download)

**Features Include:**

- Communication to ODBC compliant databases
- Responsive multithreading design
- Reliable
- Flexible
- Easy to Use
- Includes Matrikon OPC Explorer and Matrikon OPC Simulation Server for Simulation and Testing purposes

**Type of Product**

OPC Client

**OPC Compatibility**

OPC Data Access 1.0a  
OPC Data Access 2.0

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now

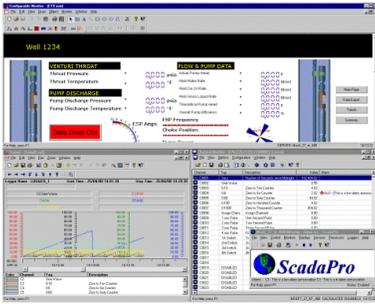


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*\*See Additional Company Information*



Measuresoft ScadaPro is an advanced real-time information system. ScadaPro provides an integrated solution for Data Acquisition, Data Logging, HMI, Data Management and Real-time/Historical Trending.

ScadaPro has been designed for use in engineering applications such as:

- Process Monitoring and Control
- Power Generation and Transmission
- Test and Measurement
- Plant Efficiency Monitoring
- Oil and Gas Well Logging
- Building Management Systems
- Waste Water Management

### Type of Product

OPC Server  
OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Features Include:

- Multiple Independent Data Loggers
- Advanced Alarm Management
- Real-time and Historical Trending
- Real-time Calculator
- HMI Builder
- OPC, ODBC and DDE connectivity
- Data Export to standard formats
- I/O Based Variants
- Internet Server option with Free Clients
- PID Controller option
- Batch Sequencer option
- Windows NT, 2000, 9x client and server support

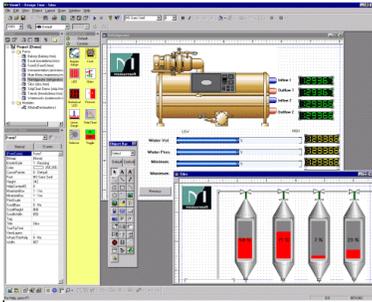
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



### Measuresoft Development Ltd

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### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

Measuresoft ViewIT is an easy to use operator display builder. ViewIT's Scriptable Forms Environment provides the flexibility for building simple or sophisticated HMI displays, allowing anyone (you, your customer, or a systems integrator) to easily extend or customize the operator display. ViewIT includes a full set of OPC client real-time Instrumentation ActiveX controls that can be used for acquiring and presenting OPC data.

#### Features Include:

- ActiveScript Editor with IntelliSense and ActiveScript Debugging
- Supports VBScript 5.1
- Extensible Forms, Modeless Dialogs, Property Sheets
- Object Alignment, Spacing, Z-order, Etc.
- Rotation, Groups, Layers
- Zooming and Auto-Scrolling
- Instrumentation ActiveX Controls:
  - Angular Gauge
  - Knob
  - LED
  - Linear Gauge
  - AlphaNumeric LED
  - Percent
  - Selector
  - Slider
  - Strip Chart
  - Toggle
- Online Help and Tutorials

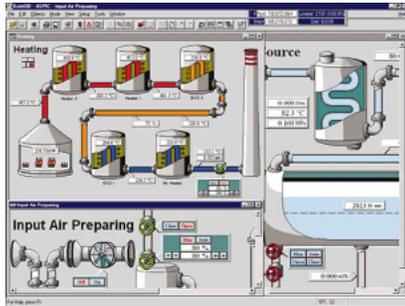
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



#### Measuresoft Development Ltd

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Web: [www.measuresoft.com](http://www.measuresoft.com)



### Type of Product

OPC Server  
OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### ASPIC – Adaptable System for Process Visualization and Control

An object-oriented system for design and operation of SCADA HMI (Supervisory Control and Data Acquisition Human Machine Interface) applications. It allows user to develop control room applications, operation, control and monitoring panels for machines in industrial processes and lines as well as graphic user interface between human and machine in different industries and power engineering. The Developer version is free, you pay for Runtime versions only.

#### Features Include:

- Designed for Windows NT/95/98/CE
- Object-oriented graphics
- MDI screens and template screens
- User-expandable object libraries
- Advanced alarm handling
- Real-time and historical trends
- Reporting tool included
- Timing of variable values
- C-like script language
- Password protection
- OPC Client
- Can communicate with OPC servers supporting OPC Data Access 1.01a or 2.0 at the same time

#### Additional Features For Windows NT/95/98:

- Extensive zoom possibilities
- Database archiving via ODBC
- Database storing alarms via ODBC
- Database configuring via ODBC
- OPC client and server
- DDE client and server

Visit our web site at [www.merz-sw.com](http://www.merz-sw.com) and download a 1-hour demoverision.

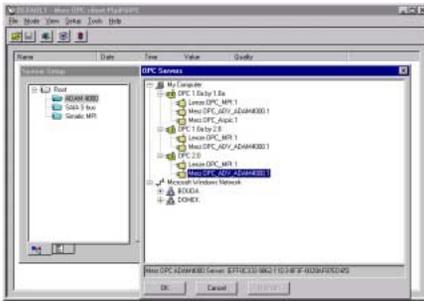
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



**MERZ, spol. s r. o.**

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CZ-460 01 Liberec 1  
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Merz PI-OPC Interface is an OPC Client for data transfer between OPC Servers and Plant Information (PI™) System databases. It is designed for Windows NT 4.0 operating systems.

The Plant Information (PI™) System is a set of software programs designed to fully automate the collection, storage and presentation of plant information developed by OSI Software, Inc.

### Features Include:

- Connection to any OPC server compatible with OPC Data Access 1.0a or 2.03 specifications.
- Browsing of variables in OPC server's configuration.
- Uses three modes to store data in a PI server.
- Use time stamps from an OPC server or to generate them.
- Dynamically change the hysteresis of saving to reflect the limited amount of the written data.
- Communicate with one or more OPC servers at the same time.
- Allows running multiple instances to perform save operations in multiple PI databases simultaneously.
- Allows running program as an NT service.
- Provides a user interface allowing you to set up properties and monitor the communicated data.
- The interface supports the following types of PI server data points: bool, uint8, int8, char, uint16, int16, uint32, int32, digital, uint64, int64, float16, float32, float64, PIstring.
- In this version, data is communicated only from an OPC server to a PI database, not conversely.
- A user manual and a help file are included in the demo version.

Visit our web site at [www.merz-sw.com](http://www.merz-sw.com) and download a 1-hour demoverision.

### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

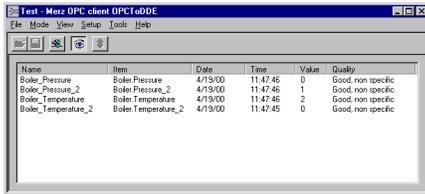
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



**MERZ, spol. s r. o.**

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CZ-460 01 Liberec 1  
Czech Republic

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Web: [www.merz-sw.com](http://www.merz-sw.com)



## Type of Product

OPC Client

## OPC Compatibility

OPC Data Access 1.0a

OPC Data Access 2.0

Merz OPC client OPCToDDE ensures fast and reliable transfer between OPC Servers and DDE Clients. It is fully compatible with OPC Data Access 1.0a and 2.0 including tag browsing. Data communicated with DDE Clients have the CF\_TEXT format and they are available also in a network (NetDDE). The types of variables exchanged with DDE Server are Int, Float or String (unformatted text).

### Features Include:

- Designed for Windows NT/95/98
- Supports Tag browsing on local and remote OPC servers
- Communicates with different OPC servers supporting OPC Data Access 1.01a and Data Access 2.0 at the same time
- Supports DDE and NetDDE for network connections
- Possible to transfer data from OPC servers into MS Excel sheets.
- Context-sensitive help file

Visit our web site at [www.merz-sw.com](http://www.merz-sw.com) and download a 1-hour demoverison.

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



**MERZ, spol. s r. o.**

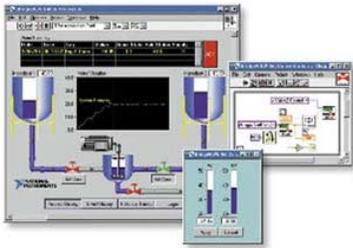
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### Type of Product

OPC Server  
OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### BridgeVIEW

BridgeVIEW uses an innovative graphical programming language called G that provides the ability to integrate functionality in a way that is not possible with traditional automation software. For example, BridgeVIEW's integrated graphical programming and user interface application development environment can easily combine PLCs, motion control, vision, high-speed data acquisition and control together into a single application. This approach leverages the high performance and broad connectivity capabilities of today's high-performance PCs and operating systems like Microsoft Windows NT, 98 and 95. BridgeVIEW also provides industry-standard OPC client support built-in.

### Features Include:

- Powerful, easy-to-use graphical programming language for PC-based measurement and automation solutions
  - Data analysis and visualization
  - Simulation and modeling
  - Logic and continuous control
  - Advanced supervisory control
  - High speed data acquisition
  - Motion control
  - Machine vision and inspection
- Enterprise-wide connectivity with ODBC/SQL, TCP/IP, DDE, and ActiveX
- Industry-standard connectivity with built-in OPC client

To have additional product information, brochures, demonstration software, or newsletters mailed to you, simply fill out our online information request form: [www.digital.natinst.com/guest.nsf/newproduct](http://www.digital.natinst.com/guest.nsf/newproduct)

If you are outside of the United States and Canada, please contact one of our International Branch Offices: [www.natinst.com/niglobal](http://www.natinst.com/niglobal)

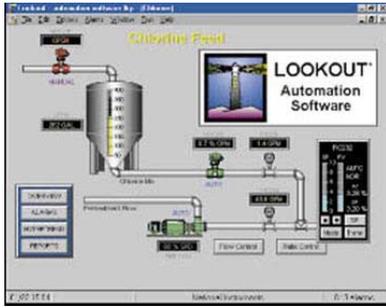
Catalog Number	Unit Price	Availability
777416-01	Consult Factory	Now
777416-05	Consult Factory	Now



### National Instruments Corporation

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### Type of Product

OPC Server  
OPC Client

### OPC Compatibility

OPC Data Access 1.0a

### Lookout

Lookout is high-performance industrial automation software that runs on a PC under Microsoft Windows NT, 98, and 95. Lookout provides a graphical interface to your process as either a human machine interface (HMI), or as a supervisory control and data acquisition (SCADA) system. Lookout is an easy-to-use configurable package that requires absolutely no programming or scripting - just fill in the blanks. Lookout also comes with a built-in OPC client that provides plug-and-play connectivity with any manufacturing device supporting the OPC server interface. Lookout applications include continuous process monitoring and supervisory control, discrete manufacturing, batch applications, and telemetry systems.

### Features Include:

- Object-oriented architecture - no programming or scripting required
- Easy to use on-line configuration
- Extensive graphics library with animation
- Event-driven processing
- Advanced telemetry and device connectivity capabilities
- Networking and redundancy
- Industry-standard OPC client support built-in

To have additional product information, brochures, demonstration software, or newsletters mailed to you, simply fill out our online information request form: [www.digital.natinst.com/guest.nsf/newproduct](http://www.digital.natinst.com/guest.nsf/newproduct)

If you are outside of the United States and Canada, please contact one of our International Branch Offices: [www.natinst.com/niglobal](http://www.natinst.com/niglobal)

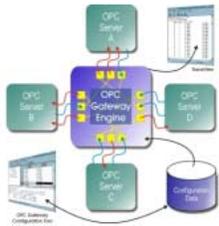
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



### National Instruments Corporation

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Web: [www.natinst.com](http://www.natinst.com)



## Type of Product

OPC Client

## OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

Connect the islands of automation on your factory floor. Integrate the automation systems of your enterprise easily and economically. Use the OPC Gateway software to seamlessly map real-time value and quality data between your DCS, PLC, Fieldbus, and SCADA systems. Combine the OPC Gateway with two or more OPC servers to create a standards-based, off-the-shelf communications hub for real-time plant information.

Take the OPC Gateway for a test drive. Download a fully functional 30-day trial version from our website.

### Features Include:

- **Simple and intuitive configuration tools.** Browse your servers, select your source and target points, then drag and drop the points onto a mapping sheet. Edit the configuration using a familiar spreadsheet interface.
- **Bulk configuration import and export.** Build your configuration using a spreadsheet or database.
- **High performance engine.** The OPC Gateway Engine easily handles the transfer of several thousand values per second. The engine runs as a Windows NT service.
- **On-line monitoring tools.** Monitor the health of engine communications with your OPC servers by configuring OPC Server Watchdogs. Send detailed information about real-time data transfers to the screen or a file.
- **Configurable data transforms.** Configure a transformation expression for each mapping. Implement engineering unit conversion, bit shifting, bit masking, and logical expressions. Test your expression off-line.
- **Comprehensive datatype support.** The engine performs automatic datatype conversions so you can map virtually any source point to any target point. Arrays are supported.
- **Optimize data throughput and OPC server loading.** Tune your configuration to satisfy your performance requirements. The following data transfer methods are supported: onchange, polled, and both.
- **Transfer source point quality information.** Define a target server point to receive source point OPC quality information (e.g. good, bad) or define a fault value for the target point (e.g. -9999).

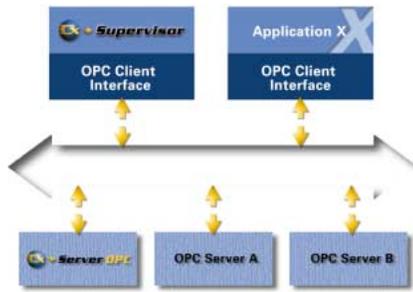
Catalog Number	Unit Price	Availability
GW-XXX - Per machine license based number of mappings. 100, 300, 500, 2000, 16000. Annual Software Maintenance and Support Programs Available	Consult Website	Now
	Consult Factory	Now



### Northern Dynamic Inc.

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Web: [www.nordyn.com](http://www.nordyn.com)



### Type of Product

OPC Client

CX-Supervisor provides all the functionality and flexibility that you will need for building and running small to midsize SCADA applications.

It contains a concise range of graphic objects that can be used to present process information to an operator in a clear, concise and unambiguous manner. At the same time CX-Supervisor contains all functionality for supervisory control and for linking the factory floor with office automation systems.

A full range of intuitive tools facilitates development tasks to novice users and allows the expert designer to concentrate on more complex tasks.

Applying COM/DCOM, ActiveX, OLE, ADO, OPC, CX-Supervisor presents the most advanced technologies in the user-friendly Windows environment.

CX-Supervisor is a part of the CX Automation Suite, Omron's complete software solution for industrial automation.

#### Features Include:

- OPC Data access V2 client.
- ADO/ODBC support for reading from and logging data to any database, supporting ActiveX Database Objects.
- Powerful scripting language, including the support for VBA and Java scripting.
- ActiveX container.
- Extensive symbol library.
- Connectivity to other Windows applications using OLE and DDE.
- Alarm management system.
- Recipe handling system.
- Extensive data-logging and viewing capabilities.
- Report generating (including HTML).
- Easy population and configuration by importing CX-Programmer symbol names.

Catalog Number	Unit Price	Availability
N/A	Contact Local Sales Office	Nov 2000

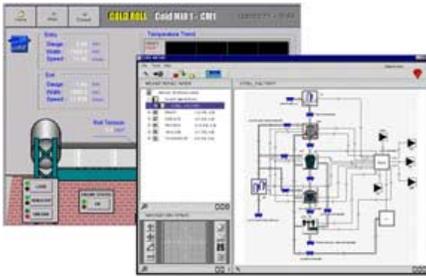


#### Omron Europe

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Web: [www.eu.omron.com](http://www.eu.omron.com)

*\*See Additional Company Information*



### Type of Product

OPC Server  
OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0  
Alarms and Events 1.0

The Orsi Group Cube Suite is a core line of components for the realization of Integrated Plant Systems Solutions (IPS). This includes equipment and process sensors, process programmable controller and all software components used to control or monitor production, such as scheduling, maintenance, genealogy, tracking, and more.

The Cube Line of Products is composed of:

- Cube MESAD, the tool for Analysis, Development, Deployment and Administration of IPS.
- Cube MES, the solution for MES Production Management.
- Cube ICS, a complete Suite of Open Control Systems: the new generation of Integrated Control Systems.
- Cube HMI, the solution for HMI/SCADA applications, connectable to all major PLCs and DCSS.

Through CUBE Suite, shop floor and business layers can be easily linked; in particular CUBE provides industry-standard OPC client and built-in server support, thus being a real open system.

Each CUBE OPC client can be connected to more than one local or remote OPC server, in order to import external data into CUBE servers. The CUBE OPC Server is able to pick up data from every CUBE Real Time Data Base connected on the network and from each ORSI ICS Component (up to OPEN PMC), and make them available to external, third parties OPC Client modules.

### Features Include:

- Three-Tier Architecture, fully exploiting the new Microsoft DNA framework
- Open system, thus encapsulating inside the solution any CUBE and/or Third Party Application module
- Flexibility: vertical modules implement specific functions and can be coordinated to realize integrated Plant Manufacturing Modeling
- Modularity, to allow the configuration of each single station with specific functions
- Reliability, to avoid the loss of critical information, ensuring high performance levels
- Security, to guarantee appropriate access levels that fit the user profile
- Simple Configuration, to cut application development times through single-instance component configuration
- Distributed Data Integration, to access physically-different databases on the network as a single database

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory

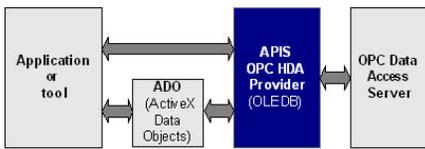


### ORSI Group

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Web: [www.orsigroup.com](http://www.orsigroup.com)

*\*See Additional Company Information*



OSI Software, Inc. manufactures the PI OPC interface. This interface was developed as an OPC COM custom interface for standard OPC server implementations. The PI OPC interface provides a uniform method for data collection on the PI System data archive from a variety of hardware and software platforms. The interface can be installed on either a PI home node or a PI API node. Data is collected by this interface either on an exception basis or by polling. The data is accessible from the PI Client Applications such as PI-ProcessBook and PI-DataLink. These applications provide real time data access and trending to PI data on client PC's.

**Features Include:**

- Each interface connects to one server
- OPC Data Access 1.0a and 2.0 compliant (as of version 1.2 of the interface)
- Supports the PI-API, which provides data buffering if the PI System is temporarily unavailable
- Event triggered data collection
- Automatic time synchronization of the OPC server clock and the PI System
- Automatically reestablishes temporarily downed connections and resumes data collection

**System Requirements:**

- Intel Pentium 200MHz, 64MB of memory
- Windows NT 4.0 with Service Pack 3 or higher
- TCP/IP networking capability
- PI System 2.0 or higher

**Type of Product**

OPC Client

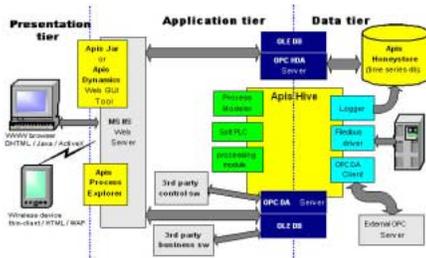
**OPC Compatibility**

OPC Data Access 1.0a  
OPC Data Access 2.0

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



**OSI Software, Inc.**  
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 San Leandro, CA 94577-0427  
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 Fax: (1) 510 357-8136  
 e-mail: [Romi@osisoft.com](mailto:Romi@osisoft.com)  
 Web: [www.osisoft.com](http://www.osisoft.com)



Apis\* is a component-based system, which provides solutions for a diversity of tasks in the field of automation and control. Apis has been built around the OPC standards with efficiency and stability in mind. Apis Hive is the home for Apis Data Access bees and Apis Service bees. Data Access bees such as the OPC Client Bee, InterbusS Bee and others, gather information from the plant. The Apis Service bees such as the SoftPLC bee and the Process Modeler Bee, refine the information gathered and provide the plant with honey.

Said in other words: Apis Hive is an integration platform for data access and data processing. The platform exposes all information of the integrated system in an OPC Data Access 2.0 interface.

\* *Apis Mellifera* is the Latin name of the European bee-race.

### Type of Product

OPC Server  
OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Features Include:

- OPC Data Access 2.0 Server for: DDE, InterbusS, SATTLINE, ABB ExCom, Neles DXD ALP Station, OPC DA 1.0, Text files and more.
- Supports all optional OPC interfaces, including OPC namespace browsing and OPC properties.
- Microsoft Management Console (MMC) based, dynamic and remote configuration.
- High performance data exchange between modules.
- Multi-tag (item) editing.
- Running as a Windows NT service or Win32 program.
- Detailed reporting to NT Event Log for system diagnostics and maintenance.
- Custom access modules can be developed in short time to provide OPC DA 2.0 interface for proprietary systems.
- Options: Soft PLC, Model based Predictive Control (MPC), Kalman filter, HTML Reporting, DHTML process pictures, System Identification, OLE DB/ADO interface

Additional information available online at [www.prediktor.no/products.htm](http://www.prediktor.no/products.htm)

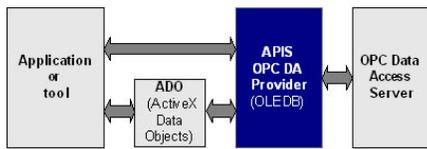
Catalog Number	Unit Price	Availability
01-100	Consult Factory	Now



### Prediktor AS

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e-mail: [apis@prediktor.no](mailto:apis@prediktor.no)  
Web: [www.prediktor.no](http://www.prediktor.no)



The Apis OPC DA Provider is an OLE DB Provider module. It provides an OLE DB /ADO interface on top of any OPC Data Access server. OLE DB is the key technology in Microsoft's Universal Data Access strategy. ADO is a layer on top of OLE DB that provides a simpler object model than OLE DB.

OLE DB and ADO are widely supported technologies in high-level development tools and GUI tools. This module makes it easier than ever before to plug OPC Data Access Servers into your applications. In many tools, no programming is needed at all. Use this module with Microsoft Internet Explorer's data binding feature and you have OPC data on the WEB in zero time.

**Features Include:**

- Reading and writing data through OLE DB
- Names space browsing through OLE DB
- Data subscription through OLE DB
- OPC Property access through OLE DB

Additional information available online at [www.prediktor.no/products.htm](http://www.prediktor.no/products.htm)

<b>Type of Product</b>
OPC Client
<b>OPC Compatibility</b>
OPC Data Access 1.0a

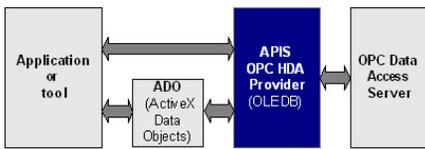
Catalog Number	Unit Price	Availability
01-200	Consult Factory	Now



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The Apis OPC HDA Provider is an OLE DB Provider module. It provides an OLE DB/ADO interface on top of any OPC Historical Data Access server. OLE DB is the key technology in Microsoft's Universal Data Access strategy. ADO is a layer on top of OLE DB that provides a simpler object model than OLE DB.

OLE DB and ADO are widely supported technologies in high-level development tools and GUI tools. This module makes it a piece of cake to plug OPC Historical Data Access Servers into your applications. In many tools, no programming is needed at all. Use this module with Microsoft Internet Explorer's data binding feature and you have OPC time series on the WEB in zero time.

**Features Include:**

- Reading historical data through OLE DB
- Names space browsing through OLE DB
- OPC HDA Attribute access through OLE DB
- OPC HDA Aggregate access through OLE DB
- Arithmetic operations on data through OLE DB

Additional information available online at [www.prediktor.no/products.htm](http://www.prediktor.no/products.htm)

<b>Type of Product</b>
OPC Client
<b>OPC Compatibility</b>
Historical Data Access 1.0

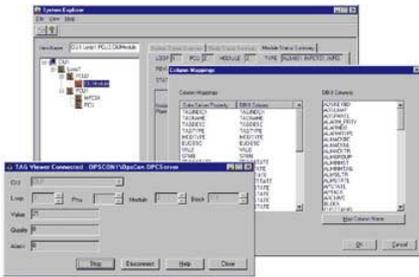
Catalog Number	Unit Price	Availability
03-200	Consult Factory	Now



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Web: [www.prediktor.no](http://www.prediktor.no)



### Operator's Console/Bailey® Net 90®/INFI 90® DCS Sys

OPsCon™ v2.0 provides a complete replacement for the aging operator's console on a Bailey® Net 90® or INFI 90® Distributed Control System (DCS). OPsCon™ v2.0 meets the need for a replacement operator's console by providing the best operator's console for the Bailey® DCS available on the market today.

OPsCon™ v2.0 utilizes the full capability of OPC, thereby bringing the true power of having real-time process data with integrity and security to your desktop. OPsCon™ v2.0 offers a truly open control system.

#### Type of Product

OPC Server  
OPC Client

#### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0  
Alarms and Events 1.0

#### Features Include\*:

- All data available via OPC interface.
- Easy conversion of existing TAGs.
- Provides faster performance than original equipment.
- Installs easily.
- Supports diagnostics and tuning.
- The best operator display package:
  - Emulates familiar Bailey® faceplates for ready-made display objects.
  - Unlimited pages of full-process graphics.
  - Object-based graphics, edited easily on-site.
  - Graphic dynamo objects with scripted actions.
  - Process data trend diagrams with real-time and historical trends.
- Five standard security levels installed automatically.
- Fully year-2000 compliant.

\* When installed with Intellution® FIX® (purchased separately).

To have additional product information, brochures, or demonstration software mailed to you, simply fill our tour online information request form at:

[www.opscon.com/request.htm](http://www.opscon.com/request.htm)

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Catalog Number	Unit Price	Availability
OPS20-CD	Consult Factory	Now



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Web: [www.opscon.com](http://www.opscon.com)

\*See Additional Company Information



The OPC for RTXHDB holds historical information from OPC server applications. Besides the current value database, OPC for RTXHDB can automatically build any number of propagated databases using the following algorithm: average value, standard deviation, maximum value, and minimum value. Typically the averages are fifteen (15) minutes, one (1) hour, one (1) shift, one (1) day, and one (1) week. These databases can be as large as the capacity of the hard drive will allow you to hold. Portions of the databases can be archived, to such media as DVD-ROM's or magnetic tape, providing unlimited off-line storage of historical data.

### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a

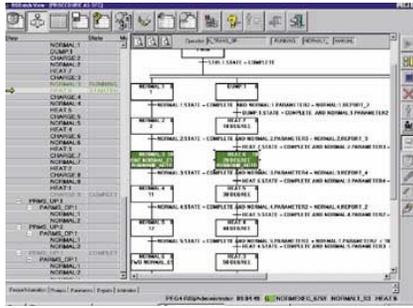
OPC Data Access 2.0



### Real Time eXecutives, Inc (RTX)

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Web: [www.rtx.com](http://www.rtx.com)



RSBatch provides efficient, predictable operation of batch processing. RSBatch ensures consistency between batches, and simplified generation of event information during batch runs. Based on the ISA's International Batch Control Standard, S88.01, RSBatch enables you to reuse code, recipes, phases, and logic between processes with similar procedures. RSBatch is hardware-independent, and can be used with your choice of process-connected devices. It is also software-independent and can integrate with a variety of HMIs, ERP/MRP systems, and other applications. Whether performing simple unit-level operations or highly complex, network-structured, multi-product tasks, RSBatch provides the optimal solution.

**Features Include:**

- Recipe Management and Execution
- Process Simulation for testing recipes for your entire batch process without establishing a process connection
- Integration with a wide variety of software applications, such as databases, RSView32, and Microsoft® Visual Basic®
- Process Control through any of today's most popular process-connected devices, including PLCs, DCSs, and even PC-based controllers
- Data Collection and Report Generation
- Information Exchange of batch and recipe information with corporate information systems
- Security
- OLE for Process Control (OPC) support

**Type of Product**

OPC Client

**OPC Compatibility**

OPC Data Access 1.0a

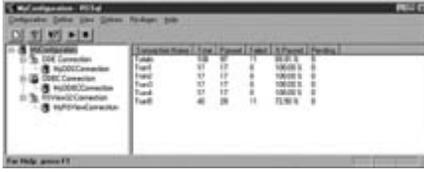
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory



**Rockwell Software Inc.**

2424 South 102nd Street  
West Allis, WI 53227  
USA

Phone: (1) 414 321-1515  
Web: [www.software.rockwell.com](http://www.software.rockwell.com)



RSSql, the Industrial Transaction Manager software from Rockwell Software, provides the vital, bi-directional link that enables your OPC-based manufacturing control system and your enterprise software to work together. Information from the factory floor can flow into enterprise databases in real time, and enterprise systems can control manufacturing processes, all without writing a single line of code! RSSql is a flexible and powerful tool that can streamline manufacturing and business procedures, and make your company more competitive.

RSSql is designed for use on a single PC or as a distributed application over an enterprise. Centralized configuration simplifies administration. Both Control Engineers and Database Administrators will find the user interface intuitive and easy to use.

### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a

### Features Include:

- Sophisticated bi-directional transactions for true enterprise-wide integration.
- Intuitive user interface which allows you to bind processor data points to database table fields or stored procedure arguments.
- A rich set of event triggers, including internal time and date based events, control system events and external application events.
- A distributed architecture that provides true scalability so you can begin operating on a single computer or distribute it across a network as your data needs increase.
- Centralized configuration, operation and system diagnosis simplifies administration and operation even on large, distributed systems.

Catalog Number	Unit Price	Availability
Several-based on tag counts	Consult Factory	Yes



### Rockwell Software Inc.

2424 South 102nd Street  
West Allis, WI 53227  
USA

Phone: (1) 414 321-1515  
Web: [www.software.rockwell.com](http://www.software.rockwell.com)



### Type of Product

OPC Server  
OPC Client

### OPC Compatibility

OPC Data Access 1.0a

RSView32 is an integrated, component-based HMI system for monitoring and controlling your automation machines and processes. Designed for the Microsoft Windows environments, RSView32 is Windows 2000 ready. It was the first HMI software in the industry to be both a client and server of OPC data. This provides users with added flexibility for peer-to-peer networking as well as the ability to create a system using control products from multiple vendors.

The RSView32 Active Display System is a true client/server program that extends the functionality of RSView32 by allowing users to remotely load, run, and interact with RSView32 graphic displays from virtually any computer on a network. This enables the user to extend the reach of their process control system from the plant floor to the office and beyond.

### Features Include:

- Displays are ActiveX Containers
- Graphics and Animation
- Alarm Monitoring
- Reusable Tag Databases
- Reusable Graphics
- Logging Directly to ODBC Database
- Interoperability with Microsoft Products
- Trending - Real-time and Historical
- Event Detection
- Security
- Visual Basic for Applications (VBA) as the built-in programming language

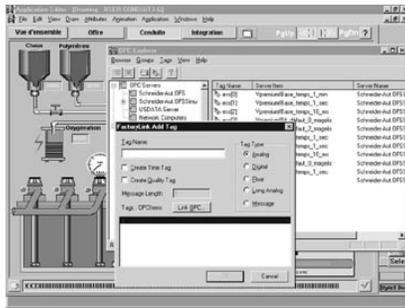
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory



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Phone: (1) 414 321-1515  
Web: [www.software.rockwell.com](http://www.software.rockwell.com)



### Type of Product

OPC Server  
OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

Monitor Pro is a multi-user real-time SCADA (Supervisory Control and Data Acquisition) application server for manufacturing and process automation. It allows data to be collected from a wide variety of plant floor devices, and valuable information to be distributed easily throughout the entire organization using open standards.

Monitor Pro includes built-in OPC Client and Server functions that simplify system integration in a heterogeneous computing environment. OPC allows communications with a large number of devices using a standard interface, to levels 1, 2, or 3 of the data handling networks in the Enterprise, and especially with all the Schneider Automation PLCs using the OPC Factory Server which provides a connection with all major networks.

### Features Include:

- Industry standard OPC Client & Server support
- Exception-based high performance real-time engine
- Enterprise database connectivity
- Distributed alarming
- Distributed architecture
- Statistical process control
- Real-time and historical trending
- Object oriented graphics
- Monitor Pro Add-Ons (Process View: dedicated process control oriented application)
- Direct access to the Schneider Automation PLCs and their application databases in build-time and run-time, which provides a true integration between the MES, the SCADA system and the PLC architecture

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



### Schneider Automation Inc.

One High Street  
North Andover, MA 01845-2699  
USA

Phone: (1) 978 975-9079  
Fax: (1) 978 975-9301  
Web: [www.schneiderautomation.com](http://www.schneiderautomation.com)

*\*See Additional Company Information*



### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a

SIMATIC ProTool/Pro provides the PC-based human machine interface solution in the vicinity of the machine.

The high-performance runtime software enables safe process operation thanks to short response times. Jog mode at the machine as well as the secure data acquisition present no problem.

The branch- and technology-neutral SIMATIC ProTool/Pro human machine interface software allows universal use in all automation applications in the form of a single-user solution.

Complete integration of ProTool/Pro into the SIMATIC S7 environment ensures three-way integration:

- in configuring and programming,
- in a common data storage
- and in the communication networks.

#### Features Include:

- Process representation via
  - Windows-compliant operator interface
  - Mouse and function key operation
  - Vector graphics
  - User-friendly trend graphics with scrolling and zoom functions
  - dynamic positioning of objects
- Recipes
- Archiving of messages and process values
  - Different archive types
  - Supports ODBC
  - On-line evaluation of process value archives via trend graphics
  - External evaluation via MS standard tools
- Free configurable protocols
- Implementation of customer-specific functions via Visual Basic scripts
- Data sharing with S7-PLC and the WinAC soft-PLC
- Supports OLE, OPC
- Acquisition of OPC items from OPC Servers
- Serves ProTool/Pro data to OPC Clients

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



#### Siemens AG

Automation & Drives  
 SIMATIC Human Machine Interface  
 P.O. Box 4848  
 D-90327 Nuremberg  
 Germany

Phone: (49) 0911 895-0  
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 e-mail: [simatichmi.marketing@nbgm.siemens.de](mailto:simatichmi.marketing@nbgm.siemens.de)  
 Web: [www.siemens.com/prottool](http://www.siemens.com/prottool)

*\*See Additional Company Information*



### Type of Product

OPC Server  
OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

WinCC is part of the Totally Integrated Automation concept from Siemens that offers the most comprehensive solution for reducing automation costs extending from distributed I/O to process control systems. It features three-way integration:

- in configuring and programming,
- in a common data storage
- and in the communication networks.

Whether used as a stand-alone SCADA application, or as part of an integrated solution, WinCC offers leading edge technology combined with unsurpassed openness.

WinCC's scalability accompanies the growth of your applications from single user systems over client-server and multi-server scenarios with redundant servers all the way to a distributed Internet/Intranet architecture.

WinCC runs on Windows NT 4.0 and Windows 2000.

### Features Include:

- WinCC communicates via its integrated OPC Client with OPC Servers
- Build up an OPC communication between different WinCC projects by using OPC Clients and Servers respectively
- WinCC provides data of its process data base via its integrated OPC Server

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



### Siemens AG

Automation & Drives  
SIMATIC Human Machine Interface  
P.O. Box 4848  
D-90327 Nuremberg  
Germany

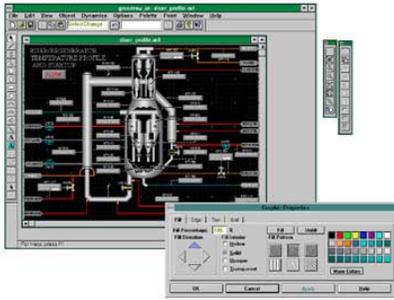
Phone: (49) 0911 895-0

Fax: (49) 0911 895-3009

e-mail: [simatichmi.marketing@nbgm.siemens.de](mailto:simatichmi.marketing@nbgm.siemens.de)

Web: [www.siemens.com/protool](http://www.siemens.com/protool)

*\*See Additional Company Information*



SL-GMS is a flexible, easy-to-use tool for developing animated displays for monitoring and controlling real-time applications.

**Features Include:**

- Drawing Tool Customization – Modify the drawing tool to provide your own look-and-feel.
- Flexible Data Connectivity – Connect SL-GMS graphics to any datasource including ODBC databases, DDE, or OPC.
- Unified Solution for Component or Web-based Applications – use SL-GMS graphics as an ActiveX or JavaBean or use our Java Code Generator to convert SL-GMS dynamic graphic displays to Pure Java.
- Portability – Develop displays that run on Microsoft Windows, UNIX (SUN, HP, IBM) and other platforms.

**Type of Product**

OPC Client

**OPC Compatibility**

OPC Data Access 1.0a

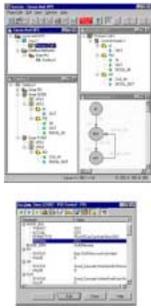
Catalog Number	Unit Price	Availability
SL-GMS	Consult Factory	Now



**SL Corporation**

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Corte Madera, CA 94925  
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Web: [www.sl.com](http://www.sl.com)



Syscon 3, a user friendly configuration tool, combines the abstraction power of object oriented software, Windows NT's™ operational simplicity, Foundation™ Fieldbus' flexibility and interoperability and OPC's™ accessibility, to easily create configurations for the most complex applications. Requires a Windows NT™ workstation and a Smar PCI card for communication.

**Features Include:**

- Object oriented GUI.
- The Fieldbus Browser makes it easy to navigate through the most complex configurations.
- Creating control strategies is as easy as dragging and dropping function blocks and graphically connecting its parameters.
- Off-line configuration made possible thanks to Foundation's™ Resource Files.
- Fieldbus configuration using OLE.
- Fieldbus operation using OPC.
- Client/Server architecture via DCOM.

**Type of Product**

OPC Client

**OPC Compatibility**

OPC Data Access 1.0a

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now

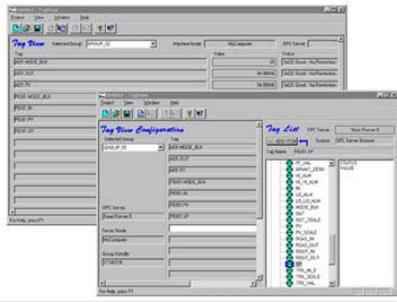


**SMAR Research Corporation**

Alexandre Pimenta, Interfaces Manager  
 Av. Antonio Furlan Jr. 1028  
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# Tag View 3.1 Client



Tag View 3.1 is an OPC Client application specially developed to validate a Fieldbus configuration by monitoring Function Blocks and their parameters.

It is also used to verify the statistical behavior of the process variables. Tag View 3.1 determines their maximum and minimum values and the number of overshoots and undershoots that exceed a specified deadband.

The Tag View 3.1 application runs on a personal computer under Microsoft Windows NT 4.0 and it may connect to either an in-process, a local or a remote OPC Server. It provides an easy-to-use online tag configuration by accessing intrinsic OPC Server Browser, when available, or a tag list file edited on line.

### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a

### Features Include:

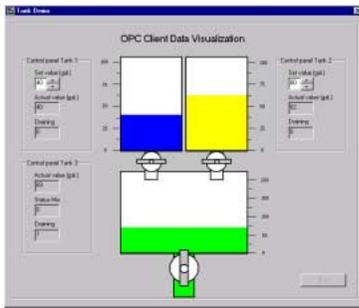
- OPC Server Client.
- Connection to remote or local servers.
- Allows the simultaneous connection to multiple servers.
- Actuates directly in the Plant.

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory



**SMAR Research Corporation**  
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## OPC Compatibility

OPC Data Access 2.0  
OPC Data Access 1.0a

The Software Toolbox® **OPC Data ActiveX Control** provides a robust, reliable, high-performance and easy-to-use means of connecting Visual Basic to OPC servers without writing any code. Simply drop the OPC Data control into VB and use its intuitive user interface to browse OPC servers and bind live process data to VB user interface objects. All the details are handled for you automatically including group management, data quality monitoring, and DCOM connection monitoring to assure reliable operation. Runtime free distribution licenses are available as well as site licenses.

### Features Include:

- Connect VB to OPC servers for reading data without writing any code and write data with minimal code
- Provides capability for the VB user to build their own OPC client applications in VB in minutes.
- Connect to multiple OPC servers simultaneously using multiple instances of the control
- OPC server and tag browsing built in plus free OPC Browser ActiveX Control included
- Product is a multi-threaded 32-bit ActiveX with a low memory footprint written in Visual C++ for optimum performance and reliability
- DCOM support built in including user configurable timeouts to insure maximum reliability of a VB/DCOM configured application.
- Sample VB and VC++ code included
- Context-sensitive online help files
- Extensive support for a wide variety of data types as supported by the PLC or control device.
- Technical Support provided by our own VB experts

Download free demos and technical datasheets for every OPC server we offer on our website at the above address. All products available for secure online purchase at our website

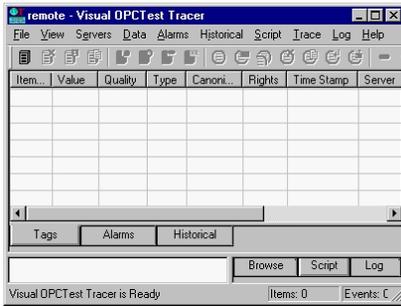
Catalog Number	Unit Price	Availability
41276104- Site License	Call	Now
41276102- Single machine development license w/ unlimited runtime dist. rights	US\$795	Now
41276101- Single Machine Dev. License	US\$295	Now
41276103- Additional dev. license	US\$295	Now



### Software Toolbox, Inc.

148A East Charles Street  
Matthews, NC 28105  
USA

Phone: (1) 704 849-2773 or  
(1) 888 665-3678 (US Toll Free)  
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e-mail: [tools@softwaretoolbox.com](mailto:tools@softwaretoolbox.com)  
Web: [www.softwaretoolbox.com](http://www.softwaretoolbox.com)



### Type of Product

OPC Client

### OPC Compatibility

Historical Data Access 1.0  
 Alarms and Events 1.0  
 OPC Data Access 2.0  
 OPC Data Access 1.0a

Visual OPCTest Tracer is an OPC client with a number of unique features that make the development and testing of OPC servers quick and easy. Advanced scripting support helps you save time by automating common tasks, write your own custom test programs in your favorite scripting language, and connect to many automation servers such as Excel!. Connect to multiple Data Access, Alarm & Events, and Historical Data Access servers at the same time to quickly discover and test server's capabilities. There is no other product so powerful and wide-ranging, yet so incredibly affordable. For more detailed specification and free demo please visit us at [www.opctest.com](http://www.opctest.com).

### Features Include:

- Test & analyze DA, AE, and HDA servers
- Scripting with VBScript, JScript, others
- User configurable scripting menu
- Scripting samples are provided
- Connect to Excel and other COM servers
- Advanced Tag tracing options
- Log all OPC calls, even when successful
- Handle OPC, System, & Network errors
- Proven OPC Interoperability
- Free one-year product upgrades

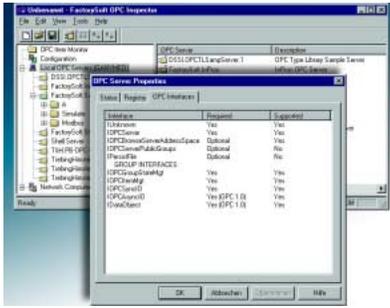
Catalog Number	Unit Price	Availability
Consult Factory	Consult Factory	Now



### Terravic Corporation

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 Chalfont, PA 18914  
 USA

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 Fax: (1) 215 491-4034  
 e-mail: [sales@opctest.com](mailto:sales@opctest.com)  
 Web: [www.opctest.com](http://www.opctest.com)



Himstedt has been the successful exclusive reseller of all FactorySoft's OPC products in Germany. Trebing and Himstedt provides the local support to FactorySoft's OPC products, including Toolkits, servers, and client products. Numerous producers were helped with technical consulting and decision making.

As a widely-respected and leading OPC technology provider in Europe, Trebing and Himstedt provides the most popular OPC products with the best support. All Trebing and Himstedt products were OPC-enabled using FactorySoft's OPC Toolkits.

OPC Inspector is a universal OPC client tool that provides data monitoring, performance measurement, diagnostics, and interface validation for OPC servers. As users confront the challenge of multi-vendor systems built on OPC, they quickly realize the need for tools to assist with evaluating, troubleshooting, and monitoring OPC data. OPC Inspector fulfills all of these needs in an affordable, comprehensive and easy-to-use application.

### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Features Include:

- Browse and display live data from multiple local and remote OPC servers simultaneously in one window, for easier troubleshooting of systems with large amounts of data or many different servers.
- Measure the response time of different OPC server configurations and tune your application to deliver optimum performance.
- Perform an interface verification test on an OPC server and report on which functions are supported. Avoid integration issues with noncompliant servers.
- Read data from and write data to I/O items in any connected OPC server. Use OPC Inspector as a fast data access tool when you need to view or change data without working through the user interface of your existing client applications.



### Trebing & Himstedt Prozessautomation GmbH & Co. KG

Wilhelm-Hennemann-Strasse 13  
D-19061 Schwerin  
Germany

Phone: (49) 385 39572 0  
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e-mail: [sales@t-h.de](mailto:sales@t-h.de)  
Web: [www.t-h.de](http://www.t-h.de)

*\*See Additional Company Information*



FactoryLink 7 is a multi-user, real-time SCADA (Supervisory Control and Data Acquisition) application for manufacturing and process automation. It connects to plant floor devices, consolidates and processes data, and communicates the data to decision-makers around the globe.

FactoryLink 7 gives manufacturers the most open real-time automation system in the industry by providing both OPC Client and OPC Server support. The FactoryLink Server incorporates OPC Client and Server, which collects and distributes data to users and higher-level business systems, such as Xfactory. The FactoryLink Client contains an OPC Client allowing data to be accessible from the FactoryLink Server or any other OPC Server. FactoryLink 7, designed specifically for Windows 2000, is built on the Microsoft Windows DNA multi-tier architecture and is the first SCADA system to fully utilize the advantages this standard offers.

### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a

### Features Include:

- Object based configuration eliminates repetition, reduces errors and application development times are slashed.
- External data import – if the external data changes, objects created using the data can be updated with a single mouse click.
- Easy to use online configuration enables applications to be modified without having to stop and restart the system.
- Integrated with Microsoft SQL Server 7.0 to provide advanced, out-of-the-box data storage functionality.

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now

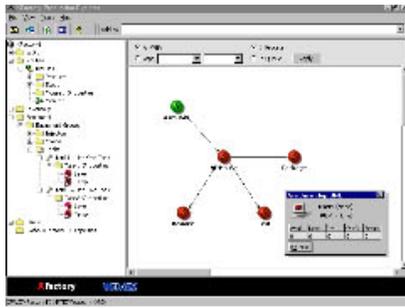


### USDATA

2435 N. Central Expressway  
Richardson, TX 75080  
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Phone: (1) 972 680-9700; (1) 877 USDATA1  
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Web: [www.usdata.com](http://www.usdata.com)

*\*See Additional Company Information*



Xfactory 1.4 MES (Manufacturing Execution System) is a work-in-process (WIP) tracking product built on Microsoft Distributed interNet Applications Architecture (DNA). Xfactory enables facilities to integrate, coordinate and manage data across multiple levels including all areas of production, inventory management, scheduling, planning and business management.

Xfactory is an OPC Client, allowing it to collect data from any OPC Server, including SCADA systems such as FactoryLink 7, or plant floor devices. By creating a visual representation of the factory using objects that represent different manufacturing functions, Xfactory users are able to model, configure and define applications for their plant by using simple point, click, drag and drop methods.

### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a

### Features Include:

- Built entirely upon standard Microsoft Windows DNA 2000.
- Complete real-time integration – ActiveX/DCOM based event sub-system.
- True object-oriented methodology – giving the end-user the ability to extend plant objects with properties, events and methods.

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now

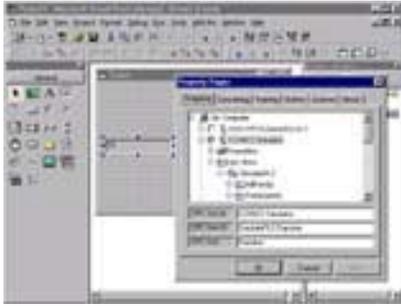


### USDATA

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*\*See Additional Company Information*



ActiveVBOpc is an ActiveX control that can browse an OPC Server and then link any OPC item into your Visual Basic project. It's as easy as setting an ActiveVBOpc OCX onto your form, and then mapping the OPC data item you wish to monitor!

There are numerous property pages that let you format the way the data is displayed in the control. You can dynamically convert the data, dynamically rename the data, and even configure the control as a pushbutton!

OPC has never been this easy!

**Features Include:**

- Link OPC data into Visual Basic.
- Dynamically format the OPC data.
- Dynamically change color of the control and text.
- Browse OPC Servers easily.
- Rename the OPC data dynamically.

**Type of Product**

OPC Client

**OPC Compatibility**

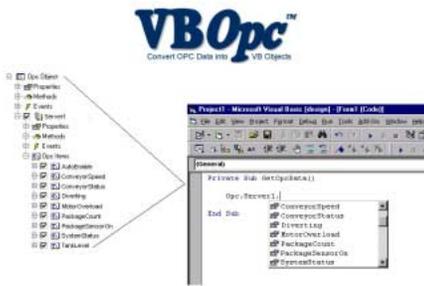
OPC Data Access 1.0a  
OPC Data Access 2.0

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory



**VBLogic, Inc.**  
1991 Sossoman Springs Road  
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e-mail: [opc@vblogic.com](mailto:opc@vblogic.com)  
Web: [www.vblogic.com](http://www.vblogic.com)



VBOpc is a software program that will browse any Opc Server and enable the user to point-and-click on the Opc Items that he or she wishes to have converted into Visual Basic program objects!

That's right, Opc data will be converted into an In-Process DLL that can be referenced from Visual Basic. This generated DLL will encapsulate all of the user's selected Opc Items and their properties, making them accessible from within VB! All of the Opc names will appear in a VB object dropdown box just like that of a Label or Textbox control.

OPC has never been this easy!

### Features Include:

- Convert Opc Data into VB Objects.
- Create an In-Process DLL that contains Opc Data.
- Create Custom Properties in your Opc DLL.
- Reference your Opc DLL from within Visual Basic.
- Generate a unique Compiled HTML Help File for each OPC DLL that you create.

### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a

OPC Data Access 2.0

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory



### VBLogic, Inc.

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Web: [www.vblogic.com](http://www.vblogic.com)



### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a

VIScontrol is a powerful tool to build industrial automation software. Current applications cover both simple man-machine-interfaces (MMI) and complex supervisory control and data acquisition (SCADA) systems. As VIScontrol is truly universal, it is used in all industries, including machine tools, plant operation, building automation, and road traffic control. VIScontrol is easy-to-learn and easy-to-use. Applications are configured in a graphical editor, no programming is required. VIScontrol is available for Windows-95, Windows-NT, MS-DOS and Windows-CE operating systems. The Windows-95/NT version supports the OPC client interface.

### Features Include:

- Easy-to-learn configuration editor
- Small footprint software - results in high-performance systems
- Event-driven internal processing
- Links to other applications and databases
- Networking on a control point level or on a browser level
- OPC client functionality available

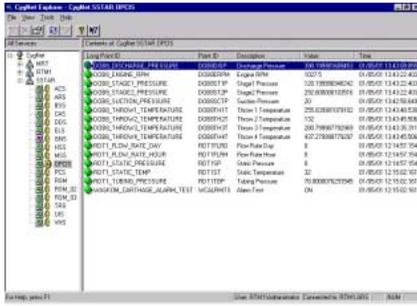
Catalog Number	Unit Price	Availability
VIScontrol	Consult Factory	Now



### VISCOM Visual Communications

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3004 Bern  
Switzerland

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Fax: (41) 31 307 50 55  
e-mail: [info@viscomvisual.com](mailto:info@viscomvisual.com)  
Web: [www.viscomvisual.com](http://www.viscomvisual.com)



CygNet's OPC Interface Service provides a reliable, high-speed means for connecting CygNet software to any OPC Server. The OPC Interface Service works seamlessly with the full suite of CygNet software to provide a complete solution for your automation needs. Capabilities include alarm and event notification, advanced reporting, trending and analysis, and auto-archiving.

**Features Include:**

- Runs on Windows NT, 95/98, and 2000
- Real-time monitoring
- Automatic notification
- Unlimited history retention
- Built-in VB Script
- Version management
- Integrated security
- Web browser access

**Type of Product**

OPC Client

**OPC Compatibility**

OPC Data Access 2.0

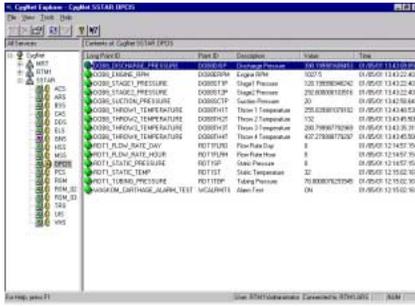
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



**Visual Systems, Inc.**

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 Web: [www.visualsys.com](http://www.visualsys.com)



CygNet Studio is a powerful OPC-based HMI (Human Machine Interface) building environment. It incorporates the simplicity of "drag and drop" to build sophisticated real-time displays. Even more advanced features can be added using the power of its built-in scripting capability. CygNet Studio supports CygNet Tools, third-party OPC controls, Active X controls, and OLE objects to provide real-time monitoring and control of field and communication equipment. CygNet Studio combines with the full suite of CygNet automation software to provide features that operators and corporate executives depend on for dynamic enterprise management -- features that reduce downtime, lower operating costs, and improve return on investment.

### Features Include:

- Runs on Windows NT, 95/98, and 2000
- OPC-based HMI Active X container
- Real-time supervisory control and data acquisition
- Alarm and event notification
- Trending
- Value calculation
- Built-in VBScript
- VB text value formatting
- Historical data access
- Version management
- Integrated security
- Web browser access

### Type of Product

OPC Server  
OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

Catalog Number	Unit Price	Availability
cstudio6.0	Consult Factory	Now



### Visual Systems, Inc.

994 Mill Street  
Second Floor  
San Luis Obispo, CA 93402  
USA

Phone: (1) 805 781-3580  
Fax: (1) 805 781-3583  
e-mail: [info@visualsys.com](mailto:info@visualsys.com)  
Web: [www.visualsys.com](http://www.visualsys.com)

**PHOTO  
UNAVAILABLE**

### Type of Product

OPC Server  
OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

Wellspring Solutions leverages our expertise in object-based technology and industrial automation to create solutions that provide robust plant-floor process coordination and control while maximizing investments in enterprise resource planning (ERP) and supply chain management (SCM) systems. Our solutions, built around OAenterprise™ 3.0, use open standards to provide flexible, web-enabled, real-time coordination and integration of all your key plant floor and business processes so that, for the first time, you can actually see your entire operation and how every piece is interrelated. Moreover, object-based OAenterprise systems allow you to coordinate and control all the processes that make up your supply chain, resulting in optimal decision-making and rapid response to customers and markets.

### Features Include:

- Open, scalable Object-Based Control with integrated alarms, history, and visualization with an easily-maintained, reusable class/object model
- Process monitoring and interaction through a high-fidelity, native Windows NT® HMI, any standard web-browser, or any OPC-client HMI
- Creation and maintenance of control logic, algorithms, and business rules using IEC 61131 graphical programming or powerful, flexible Java™
- High-performance, distributed historian with efficient event-driven storage of time-stamped data, transparent redundancy, and support for integration with existing and 3rd-party historians/databases
- Hierarchical, distributed alarming that simplifies nuisance alarm suppression and enables sophisticated "smart alerts"
- Open backbone for integration with existing infrastructure and applications
- Support of industry standards, such as OPC, ActiveX, COM/Automation, ODBC, and XML
- Polling or event-driven processing
- Simultaneous, distributed multi-user operation and development

To have additional product information, catalogs, brochures, data sheets, or 'white papers' mailed to you, please visit our online request form:  
[www.wellspringsolutions.com/about/contactus.htm](http://www.wellspringsolutions.com/about/contactus.htm)

Catalog Number	Unit Price	Availability
Consult Factory	Consult Factory	Consult Factory

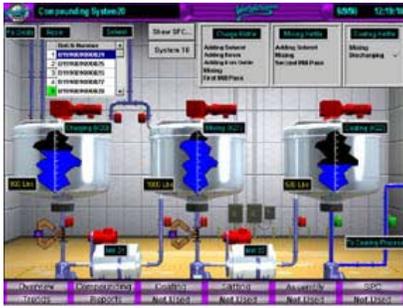
WELLSPRING  
SOLUTIONS  
INC



### Wellspring Solutions, Inc.

4 Hutton Centre, Suite 300  
Santa Ana, CA 92707  
USA

Phone: (1) 714 556-0500  
Fax: (1) 714 556-0520  
e-mail: [sales@wellspringsolutions.com](mailto:sales@wellspringsolutions.com)  
Web: [www.wellspringsolutions.com](http://www.wellspringsolutions.com)



FactorySuite™ 2000 is the world's first integrated component-based MMI System. With FactorySuite 2000, you have access to all the information you need to run your factory. Today, it's not enough to buy just a database. Or just an HMI. You need all the pieces – visualization, optimization and control, plant floor data collection, and data storage and analysis – to make your plant truly productive. FactorySuite 2000 runs on the Microsoft® Windows NT 4.0 operating system and the HMI and clients also run on Windows 98/95. FactorySuite 2000 can give you a powerful manufacturing and management information (MMI) system.

### Features Include:

- FactorySuite 2000
- InTouch™ - The world's leading HMI for visualization
- InControl - Windows NT-based machine and process control
- IndustrialSQL Server - The first real-time relational database for the plant floor
- Scout - A robust Internet/Intranet tool for remote data viewing
- InTrack - Resource management
- InBatch - Flexible batch management
- OPCLink - Allows FactorySuite to act as an OPC Client
- Compatible with both in-process and out-of-process OPC Servers
- Lifechecks - Will notify the user if the OPC Server is not on-line
- Data Monitor - Knows what items are active, and can provide the raw value

### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a

Catalog Number	Unit Price	Availability
02-2001	Consult Factory	Now



### Wonderware Corporation

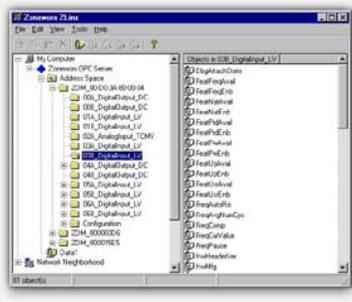
100 Technology Drive  
Irvine, CA 92618  
USA

Phone: (1) 949 453-6703

Fax: (1) 949 453-6500

e-mail: [OPC@wonderware.com](mailto:OPC@wonderware.com)

Web: [www.wonderware.com](http://www.wonderware.com)



### Type of Product

OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

ZLinx simplifies the task of importing live data originating from Zoneworx Pathways products via the Zoneworx OPC Server into ODBC-compliant applications, such as Microsoft Excel, Microsoft Access, MS-SQL Server, etc. Through simple copy and paste operations, users can insert data into databases, spreadsheets and other applications capable of OLE linking. Once linked, data will update in the applications at a user configured rate. ZLinx also allows the reading and writing of arbitrary OPC items via Excel Visual Basic macros with a single function call; this allows Excel to fully control any OPC accessible device. In some cases this can even eliminate the need for expensive HMI software applications.

#### Features Include:

- Simple copying and pasting operations insert live ZOPC information directly into ODBC compliant databases (e.g., SQL, Access) and into OLE client software (e.g., Excel, Word).
- Networked and remote OPC server access delivers data quickly and easily to any work station in the enterprise, allowing you to use existing training and personnel and low-cost work stations to perform critical information analysis.
- Script programming for Delphi, Visual Basic and other programming languages eliminates the costs of expensive HMIs and MES applications when a simple desktop-based application is suitable.
- Browsing of OPC server tags eliminates costly and time consuming programming.
- Immediate OPC data in any ODBC application provides real-time data monitoring that can prevent or minimize the damage from system breakdowns.

Catalog Number	Unit Price	Availability
ZOPC	Consult Zoneworx	April 2000



#### Zoneworx, Inc.

40925 Country Center Drive  
Temecula, CA 92591  
USA

Phone: (1) 877 506-9409; (1) 909 296-1226  
Fax: (1) 909 296-1227  
e-mail: [customerservice@zoneworx.com](mailto:customerservice@zoneworx.com);  
[sales@zoneworx.com](mailto:sales@zoneworx.com)  
Web: [www.zoneworx.com](http://www.zoneworx.com)



The Object Server is a Microsoft Windows based feature that complies with the OLE for Process Control (OPC) standard. It provides access to real time process and production information throughout the ABB Quality Control System (QCS). The Object Server gives you the power to access information on the QCS network and directly from measurements, profilers and machine health systems. The Object Server manages the task of collecting, organizing and distributing information to each client application on the mill network. Each client application receives only the data it wants, when it wants it and how it wants it to be organized.

**Features Include:**

- Complies with OLE for Process Control (OPC) standard 1.0 and 2.0
- Manages collection, organizing and distribution of ABB Quality Control System information
- Allows production and process parameters to be sent to the ABB Quality Control System
- Implements control monitoring and reporting applications easily
- Integrates seamlessly with other OPC compliant systems
- Includes comprehensive publishing and diagnostic utilities

**OPC Compatibility**

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0

**Operating Systems Supported**

NT  
 2000

**Manufacturers Supported**

ABB devices  
 Compatible OPC Clients  
 (Various)

**Networks Supported**

Microsoft NT  
 2000 Networks

Catalog Number	Unit Price	Availability
SE/NTSVR	Consult Factory	Now

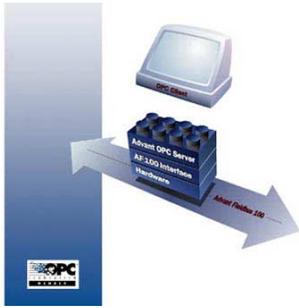


**ABB Automation**

Quality Control Systems  
 650 Ackerman Road  
 Columbus, OH 43202  
 USA

Phone: (1) 614 261-2000  
 Fax: (1) 614 261-2113  
 e-mail: [paperstore.usiny@us.abb.com](mailto:paperstore.usiny@us.abb.com)  
 Web: [www.abb.com/pulpandpaper/](http://www.abb.com/pulpandpaper/)

*\*See Additional Company Information*



The Advant OPC Server for Advant Fieldbus 100 is based on the Windows NT operating system. It enables data exchange between Windows applications and stations on the Advant Fieldbus 100 network and access is provided to process objects in Advant Controllers.

The Advant OPC Server can be used by client applications with support for the mandatory custom interface, the automation interface and the alarms and events interface.

It is well integrated with the AMPL Control Configuration engineering tool, meaning that you only need to enter object configuration data once to configure both the controller nodes and the Advant OPC Server for Advant Fieldbus 100.

### OPC Compatibility

Alarms and Events 1.0  
 OPC Data Access 1.0a  
 OPC Data Access 2.0

### Operating Systems Supported

NT

### Features Include:

- Easy access to real-time process data by symbolic addressing.
- Three access modes: read, write and standing data subscription.
- Information-rich, high-resolution, event and alarm messaging.
- Built-in hardware configuration support.
- Comprehensive error detection and diagnostics.
- Smooth application engineering support.

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



### ABB Automation Inc.

ABB Automation Products AB  
 SE-721 59 Västerås  
 Sweden

Phone: (46) 21 34 20 00  
 e-mail: [automationinfo@us.abb.com](mailto:automationinfo@us.abb.com)  
 Web: [www.abb.com/automation](http://www.abb.com/automation)

*\*See Additional Company Information*



### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

NT

### DriveLink™ with OPC

DriveLink is a tool for connecting ABB drives with Windows NT based monitoring systems and MMI products. It supports all ABB models ACS600, DCS600, and ACS1000 drives over ABB's fiber optic DDCS communication network. The DriveLink OPC server can deliver a single signal value in 9ms, as compared to 500ms through a traditional DDE interface. It can access all drives connected to the DDCS network with no limit to the number of drives or measurement points.

DriveLink with OPC provides read and write access to all of the critical drive functions and parameters. The package includes a simple user interface that can browse the data objects available in the drives network as well as read and change their attributes. Typically, the DriveLink OPC server is used together with an MMI or SCADA package for monitoring and control. It may also be used with applications created in Visual Basic or Visual C++ or with any OPC client application.

### Features Include:

- Built in browser
- Read and write access to drive data
- Access over TCP/IP and the local drive network
- Compatibility with third-party SCADA systems
- Compatibility with user applications
- Fast access to drive parameters

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory



### ABB Automation Inc.

29801 Euclid Avenue  
Wickliffe, OH 44092  
USA

Phone: (1) 440 585-8500  
e-mail: [automationinfo@us.abb.com](mailto:automationinfo@us.abb.com)  
Web: [www.abb.com/automation](http://www.abb.com/automation)

*\*See Additional Company Information*

## Extended MODBUS OPC Server Server



The Extended MODBUS OPC Server provides an enhanced communication interface between standard OPC clients and MOD30ML, Modcell MultiLoop, AC70 or AC110 controllers. IEEE floating point data from these controllers is directly supported by the server, improving resolution and eliminating the need for scaling in the host. The server imports interface files created by the MOD30ML and Modcell MultiLoop instrument configuration software, automatically and effortlessly creating the server's tag database.

### Features Include:

- Operation under Windows 95, Windows 98 and Windows NT platforms with Industry-Standard OPC-Compliant Hosts
- Easy to use Explorer-Style Configuration and Diagnostic Interface
- Simulation Mode for Testing Communications with Host
- Supports Communications with Standard MODBUS RTU Devices
- Eliminates need for custom or proprietary drivers
- Supports DDE communications for non-OPC clients, such as Microsoft Excel

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

95  
98

Catalog Number	Unit Price	Availability
OPC-XM	Consult Factory	Now



### ABB Automation Inc.

Instrumentation Division  
125 East County Line Road  
Warminster, PA 18974  
USA

Phone: (1) 800 922 2473  
e-mail: [instrumentation@us.abb.com](mailto:instrumentation@us.abb.com)  
Web: [www.abb.com/automation](http://www.abb.com/automation)

*\*See Additional Company Information*



### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0

### Operating Systems Supported

NT

### Manufacturers Supported

DDE  
 IEC 1131-3

### Networks Supported

Ethernet  
 Foundation Fieldbus  
 Interbus S  
 Profibus

### Freelance 2000 Controller and DigiVis Operator Station Software

A next generation automation system to meet your needs, with true DCScapability, but with the familiarity of the PLC.

These are names which stand for professional solutions in measurement technology and process automation - partners with know-how, who have made their mark on the international scene. The result: a next-generation automation system to meet your needs, with true DCScapability, but with the familiarity of a PLC.

#### Features Include:

- OPC Server (Freelance 2000 Controller via Networked PC Application)
- OPC Client DigiVis Operator Station Software
- Clever Automation
- Compact & Cost-Effective
- System-wide reliability
- Integrated Standards
- Easy Engineering
- Simple Maintenance

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



**ABB Automation Inc.**  
 29801 Euclid Avenue  
 Wickliffe, OH 44092  
 USA

Phone: (1) 440 585-8500  
 e-mail: [automationinfo@us.abb.com](mailto:automationinfo@us.abb.com)  
 Web: [www.abb.com/automation](http://www.abb.com/automation)

*\*See Additional Company Information*



The applicom® OPC Server is designed for all local or remote OPC Clients such as SCADA, HMI and custom products connected to industrial networks and fieldbuses. applicom® OPC Server includes a ready-to-use smart board for any of the more than 30 industrial networks supported in our communication suite.

**Features Include:**

- Multi-protocol OPC server simultaneously
- Up to 30 communication protocols
- Single configuration tool whatever the protocol
- Test and diagnostic software
- OPC Server with TAG Browser
- OPC Client application (including VC++ source code) for testing
- ActiveX OPC Client for VBA application

**OPC Compatibility**

OPC Data Access 1.0a  
OPC Data Access 2.0

**Operating Systems Supported**

95  
98  
NT  
2000

**Manufacturers Supported**

Allen Bradley  
Alstom  
Elsag Bailey  
GE Fanuc  
Klockner group  
Mitsubishi  
Omron  
Saia  
Schneider Electric  
Siemens  
Texas Instrument

**Networks Supported**

Serial  
Modbus Plus  
WorldFIP  
Profibus  
Ethernet  
Ethernet TCP/IP

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



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France

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Web: [www.applicom-int.com](http://www.applicom-int.com)

*\*See Additional Company Information*



The applicomIO® OPC Server is designed for all local or remote OPC clients such as SoftLogic, SCADA, HMI and custom products connected to fieldbuses. applicomIO® OPC Server includes a ready-to-use smart board for any of the 4 protocols supported in our communication suite.

**Features Include:**

- Multi-protocol OPC server simultaneously
- Single configuration tool whatever the protocol
- Test and diagnostic software
- OPC Server with TAG Browser
- OPC Client application (including VC++ source code) for testing
- ActiveX OPC Client for VBA application
- VenturCom RTX, DCX extensions

**OPC Compatibility**

OPC Data Access 1.0a  
OPC Data Access 2.0

**Operating Systems Supported**

NT  
2000

**Manufacturers Supported**

Allen Bradley  
Phoenix Contact  
Schneider Electric  
Siemens

**Networks Supported**

Profibus-DP:  
-Master/Slave modes  
CANopen:  
-Master modes  
DeviceNet:  
-Master/Slave modes  
InterBus-S:  
-Master mode

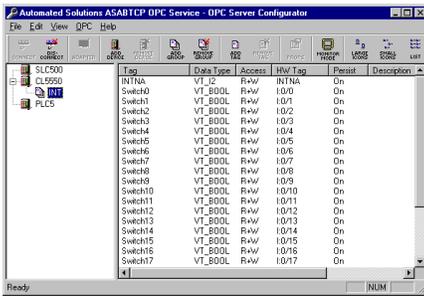
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



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43 rue Mazagran  
76320 Caudebec-les-Elbeuf  
France

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*\*See Additional Company Information*



Automated Solutions' 2001 version OPC Servers offer the most reliable, cost effective and comprehensive features list available in the OPC/HMI market today. Our servers offer unmatched configuration capability with an exclusive universal tag database import feature that allows end users to automatically import tags directly from their PLC programming software or third party HMI platform. Our unique read tag optimization provides unmatched data transfer speeds to the leading PLC brands. Our servers are compatible with all local and remote OPC Clients such as HMI, SCADA, ActiveX Controls, and custom built (VB, VC++) applications. The OPC Data Access Automation interface is supported. OPC Servers provide full OPC Data Access 2.0 compliance including tag browsing, with the additional flexibility of dynamic tag and device creation from any OPC Client.

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

95  
98  
2000  
NT

### Manufacturers Supported

Allen-Bradley  
Modicon/Modbus

Evaluation versions are available for download from our web site. Automated Solutions servers are sold separately by interface type for maximum cost-effectiveness.

### Features Include:

- Can be run as a stand-alone server (95/98/2000/NT) or NT Service (NT/2000)
- Supports data quality reporting
- Dynamic addition of devices and tags from any local or remote OPC Client
- Tag optimization minimizes the number of data transactions on non-contiguous data areas
- Unique import/export feature supports automatic tag import from major PLC programming software packages and HMI platforms
- Block tag addition allows for rapid creation of similarly named tags
- Supports self-registration, server and tag browsing
- Configuration utility provides communication diagnostics and read/write access to tags
- Supports local or network data access using DCOM
- Configuration utility can run locally or across the network
- Tags can be marked persistent, so that they are loaded each time the server is started

### Networks Supported

A-B Ethernet  
A-B Data Highway Plus (DH+)  
A-B Serial DF1  
A-B Data Highway 485 (DH485)  
Modbus/TCP  
Modbus Plus  
Modbus ASCII/RTU

Catalog Number	Unit Price	Availability
Consult Factory	Consult Factory	Now



### Automated Solutions, Inc.

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1415 Fulton Road  
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*\*See Additional Company Information*



### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0  
Alarms and Events 1.0

### Operating Systems Supported

2000  
NT

### Manufacturers Supported

Fieldbus interface cards from:  
-Beckhoff  
-Hilscher  
-Siemens

### Networks Supported

Ethernet  
Beckhoff Lightbus  
Profibus  
Interbus-S  
CANopen  
DeviceNet  
Sercos

### Fieldbus Independent OPC Server

The TwinCAT Automation Software is a complete solution for PC-compatible automation systems. TwinCAT offers hard real-time control capability combined with Soft-PLC and Soft-MC (Motion Control) on Microsoft Windows operating systems. TwinCAT forms with Beckhoff Industrial PC and Buserminal I/O a complete control solution.

TwinCAT OPC Server provides direct communication via TwinCAT-PLC/-NC or TwinCAT-IO to all common field busses and PC interfaces for I/O signals: Profibus DP/MC, DeviceNet, Beckhoff Lightbus, CANopen, Interbus, SERCOS, TCP/IP, USB, PC-Memory, PC-Ports, etc.

TwinCAT OPC Server can access all TwinCAT devices like: TwinCAT PLC, TwinCAT NC, TwinCAT IO, TwinCAT CP, TwinCAT CAM...

Download a royalty free full featured TwinCAT OPC evaluation package from [www.beckhoff.com](http://www.beckhoff.com).

### Features Include:

- Fieldbus independent (access via TwinCAT PLC / IO to all common field bus systems)
- Windows NT / Windows 2000 / Windows CE platforms
- Implementation as NT-service and DLL for client applications requiring high-speed data exchange
- Configuration via XML, Configurator supports browsing / import of TwinCAT variables
- Support OPC browsing to simplify opc-server tag integration with the opc-clients
- Min. scan rate of 1 ms
- Supports COM /DCOM & Automation interface
- Integrated Data Monitoring

Catalog Number	Unit Price	Availability
TwinCAT OPC	Consult Factory	Now
TwinCAT I/O	Consult Factory	Now
TwinCAT PLC	Consult Factory	Now
TwinCAT NC/PTP	Consult Factory	Now
TwinCAT NC I	Consult Factory	Now

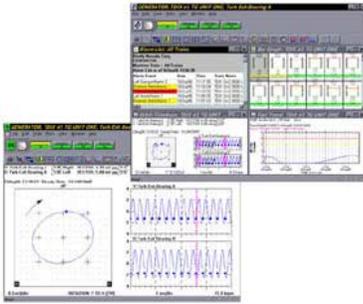


### Beckhoff

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D-33415 Verl  
Germany

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Fax: (49) 5246 963-198  
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Web: [www.beckhoff.com](http://www.beckhoff.com)

*\*See Additional Company Information*



Data Manager® 2000 is a continuous online machinery diagnostic software application intended for critical rotating and reciprocating machinery. This modular application stores and collates vibration and process data. Plant personnel can view this data in a number of diagnostic plot formats including alarm, historical, event, real time static and dynamic for steady state and startup/shutdown conditions. The DM2000 data exporter, via the OPC server, provides the user the ability to integrate machinery condition information with automation application such as Data Historians and Human Machine interface.

**Features Include:**

- Window NT Based application
- Client/server architecture with support for:
  - LAN
  - WAN
  - Remote connection
- Expandable system can include:
  - Machine performance monitoring
  - Decision Support for mechanical malfunctions

**OPC Compatibility**

OPC Data Access 1.0a  
OPC Data Access 2.0

**Operating Systems Supported**

95  
98  
NT

**Manufacturers Supported**

Bentley Nevada's Data Manager 2000

**Networks Supported**

Ethernet

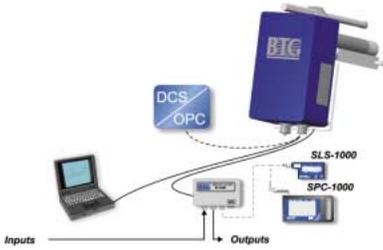
Catalog Number	Unit Price	Availability
Consult Factory	Consult Factory	Now



**Bentley Nevada Corporation**

1631 Bentley Parkway  
Minden, NV 89423  
USA

Phone: (1) 775 782-3611  
Fax: (1) 775 782-9253  
Web: [www.bentley.com/](http://www.bentley.com/)



### OPC Compatibility

OPC Data Access 1.0a

### Operating Systems Supported

95  
98  
NT

BTG strengthens its leading position in pulp & paper measuring systems by offering an OPC server for BTG Pulp & Paper Sensors. The server makes predictive diagnostics available to anyone across the plant using standard OPC interface.

The BTG OPC Server provides extremely fast, secure, plug-and-play access from any OPC client application into BTG Pulp & Paper Sensors. You can use the server to get and set all parameters available in the instruments or use the OPC server as a complement to other available ways of communicating with the instruments.

The server supports a browsing feature which gives clients access to all information available in the instrument. The server provides read and write access to all information in the specific instrument. With the server the instrument can be remotely configured and calibrated.

The BTG OPC Server is designed so that it will support coming generations of pulp & paper instruments from BTG.

#### Features Include:

- Easy plug-and-play configuration.
- Industry-standard OPC connectivity
- Multidrop addressing to instruments
- Remote tag browsing from OPC client
- Supports multiple OPC clients
- Supporting both automation and custom interfaces
- Multithreaded design assigns separate processing thread for maximum performance

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



#### BTG Pulp and Paper Sensors AB

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Box 602  
661 29 Saffle  
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e-mail: [info@btg.se](mailto:info@btg.se)  
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The COMSOFT OPC Servers support Profibus (DP-Master Class 1, DP/V1-Master Class 2 and DP-Slave) and SINEC-L1 (Master and Slave). Part of the server package is an easy to use configuration tool for defining the OPC server tags including advanced test and diagnostic tools. An OPC-Test-client is part of delivery. The COMSOFT OPC-Server is implemented in the free-threading model to get an optimal performance and can be configured dynamically meaning that the data traffic is not interrupted if a new configuration (for example, new bus devices or new tags) is loaded on the OPC server. The OPC Servers support the COMSOFT boards in a variety of form factors (ISA, PCI, Compact-PCI).

**Features Include:**

- Free-threading high performance OPC Server
- Supports Flat and Hierarchical Browsing
- Easy to use configuration tool including advanced test- and diagnostic functions
- Dynamic server configuration without interrupting data traffic
- Supports up to 5 COMSOFT boards in one PC

**OPC Compatibility**

OPC Data Access 1.0a  
OPC Data Access 2.0

**Operating Systems Supported**

NT

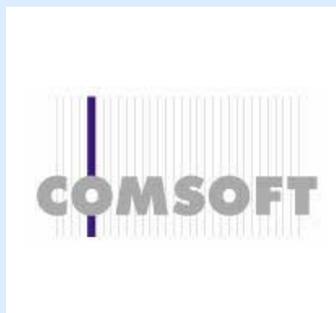
**Manufacturers Supported**

Siemens

**Networks Supported**

Profibus DP/V1  
Sinec-L1

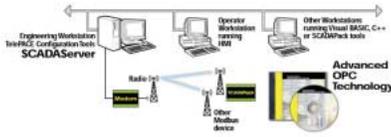
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory



**COMSOFT GmbH**

Industrial Communication Products  
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D-76227 Karlsruhe  
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Web: [www.comsoft.de](http://www.comsoft.de)



**SCADA Server™** is the newest SCADA communications software from Control Microsystems. SCADA Server is an OPC (OLE for Process Control) server that looks after the details of communication between host computers and a SCADA network. SCADA Server works with dial-up telephone, half duplex radio or leased line modems, full duplex systems and any other communication system using Modbus and a serial port on the host computer. SCADA Server even supports unsolicited (report-by-exception) messages and lets SCADAPack programming tools be used AT THE SAME TIME as the SCADA network is being polled by the host computer. SCADA Server makes the communication system flexible and easy to set-up.

SCADA Server can be used with any OPC client supporting custom interface version 1.0. SCADA Server also provides an easy solution for field communication between any Modbus device and custom applications written in Visual Basic or Visual C, or even Excel using Visual Basic for Applications!

### Features Include:

- Half-Duplex (RTS/CTS flow control) and associated timing.
- Dial-up telephone with facility for initiating or answering calls to and from the field (this feature is not for use with TelePACE, IEC61131, the SCADAPack firmware loader, or RealFLO. Each of these packages has their own dial-up facility included with the package).
- Extended addressing option allowing addressing of up to 65534 field devices.
- Slave/Master capability allowing for receipt of unsolicited Modbus messages originating from the field.
- Automation interface for use with client programs developed with Visual Basic including applications such as Excel incorporating Visual Basic for Applications.
- Full multithreaded application.
- Custom interface version 1.0 for use with most HMI/SCADA Host software and OPC client programs developed in C/C++.
- Browsing of the server address space.
- DCOM support allowing access to SCADA data by multiple clients over the LAN.

A sample version with support limited to full duplex direct connection is available at reduced cost. This product is available for immediate shipment.



### Control Microsystems

Canada & International  
28 Steacie Drive  
Kanata, ON K2K 2A9  
Canada

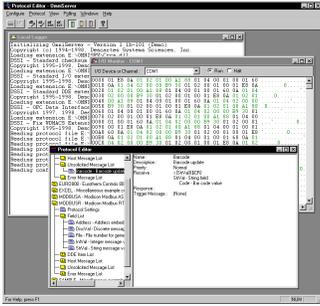
Phone: (1) 613 591 1943

Fax: (1) 613 591 1022

e-mail: [marketing@controlmicrosystems.com](mailto:marketing@controlmicrosystems.com)

Web: [www.controlmicrosystems.com](http://www.controlmicrosystems.com)

*\*See Additional Company Information*



The Descartes OmniServer™ I/O Server is a Windows program that provides Windows applications real-time access to a variety of I/O devices. Using OmniServer, you specify protocols and define data interfaces used to access the devices' data. Done completely with dialogs, you do not need to know any programming languages. With the protocols you build, OmniServer makes the I/O data available to your client applications.

**Features Include:**

- User-configurable.
- No programming.
- Flexible message modes.
- Data parsing.
- Multiple devices.
- Error detection codes.
- Message sequences.
- OPC, DDE, and custom interfaces.
- Serial, LPT, TCP/IP, and GPIB.
- ASCII and binary support.

**OPC Compatibility**

OPC Data Access 1.0a  
OPC Data Access 2.0

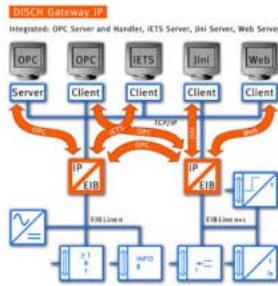
**Operating Systems Supported**

95  
98  
2000  
NT



**Descartes Systems Sciences, Inc.**  
OmniServer Sales Manager  
130 Paris Drive  
Lawrenceville, GA 30043  
USA

Phone: (1) 770-868-8701  
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e-mail: [sales@omnidssi.com](mailto:sales@omnidssi.com)  
Web: [www.omnidssi.com](http://www.omnidssi.com)



### Plug in the Power of OPC Servers

The DISCH Gateway stands for remote and platform independent access to the EIB®. The DISCH Gateway IP is an embedded device, that links the world of SCADA and visualization software with EIB Networks.

With the DISCH Gateway IP is the first embedded OPC Server available. Designed as an OPC Server within an embedded system the DISCH Gateway IP enables very high safety and seamless integration of facility management into automation industry.

The EIB OPC Server features full group addressing (read/write) as well as access to physical addresses. The server's repository is derived directly from the database of the manufacturer-independent EIB Tool Software (ETS).

The server is fully capable of handling the event-oriented EIB approach, hence reducing bus load significantly. Furthermore, the EIB OPC Server supports access through multiple clients.

The configuration of the DISCH Gateway IP is done via a Java Applet. This Java Applet contains a browser for the EIB objects.

### Features Include:

- First embedded OPC Server
- Linking EIB Networks to SCADA and visualization software
- Easy access to group addresses and physical addresses
- Cost reduction by direct integration of ETS database
- OPC Handler included for fast gateway to gateway coupling
- Remote maintenance of EIB networks via the integrated iETS Server
- Integrated Jini Server
- Platform independent user interface based on the web technology

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Networks Supported

EIB Network

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



### Disch GmbH

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D-91207 Lauf a. d. Pegnitz  
Germany

Phone: (49) 9123 9424921  
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e-mail: [Sales@Disch-GmbH.de](mailto:Sales@Disch-GmbH.de)  
Web: [www.Disch-GmbH.de](http://www.Disch-GmbH.de)

*\*See Additional Company Information*



The EIB OPC Server links the world of SCADA and visualization software with EIB Networks. For example, software solutions for facility management can comfortably access EIB. Remote monitoring, remote control, visualization and seamless PC integration into the world of home & building control is possible through a wide selection of OPC Client applications. The EIB OPC Server features full group addressing (read/write) as well as access to physical addresses. The server's repository is derived directly from the database of the manufacturer-independent EIB Tool Software (ETS). The server is fully capable of handling the event-oriented EIB approach, hence reducing bus load significantly. Furthermore, the EIB OPC Server supports access through multiple clients.

**Features Include:**

- Linking EIB Networks to SCADA and visualization software
- Vendor-independent multi-client capability
- Easy access to group addresses and physical addresses
- Cost reduction by direct integration of ETS database

**OPC Compatibility**

OPC Data Access 2.0  
OPC Data Access 1.0a

**Operating Systems Supported**

NT

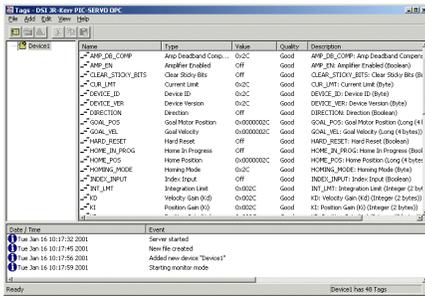
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



**Disch GmbH**  
Chantal Degol  
EIB Association  
Avenue de la Tanche, 5  
B-1160 Brussels  
Belgium

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*\*See Additional Company Information*



Dynamic Software OPC Servers are quality servers for the Windows NT, Windows 2000, and Windows 95/98 environments. The OPC Servers provide connectivity to factory floor equipment, such as PLC's, from Visual Basic applications and Visual C++ applications. Our OPC Servers can also be used by any OPC compatible HMI and SCADA application. All DSI OPC Servers are based on Microsoft's COM/DCOM technology.

Our OPC Servers are both reliable and economical and are attractively priced for the OEM with many installations.

We also have OPC Servers for OMRON and JR Kerr Motion Control Cards.

## OPC Compatibility

OPC Data Access 2.0

## Operating Systems Supported

NT  
2000  
95  
98

## Manufacturers Supported

OMRON  
JR Kerr

## Features Include:

- Import/Export Tags from/into ASCII/CSV files
- Debug Logs
- Multithread
- Supports OPC Browse Interface
- Supports COM/DCOM Technology
- Equipment Simulation for HMI Testing
- Fully functional demonstration copies are available on our Web Site.

## Networks Supported

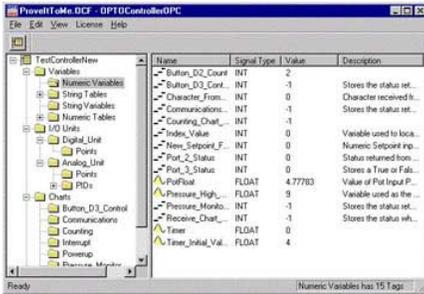
Modbus

Catalog Number	Unit Price	Availability
Modbus OPC Server	\$195.00 for Modbus	Now



**Dynamic Software, Inc.**  
2978 Voyager Drive  
Green Bay, WI 54311  
USA

Phone: (1) 920 432-4454  
Fax: (1) 920 432-4455  
e-mail: [dsiinfo@dsigb.com](mailto:dsiinfo@dsigb.com)  
Web: [www.dsigb.com](http://www.dsigb.com)



Ethernet OPC Server \$495

KOYO Ethernet OPC Server \$495

KOYO DirectNet RS-232 OPC Server \$495

GE Genius I/O OPC Server \$1,000

OPTO Controller Ethernet and RS-232/485/422 OPC Server \$1,500

OPTO Ethernet I/O OPC Server \$695

OPTO Mux RS-422 OPC Server \$695

TI Simatic 505 RS-232 OPC Server \$1,500

TI Simatic 505 Ethernet CTI2572 OPC Server \$1,500

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

95  
98  
NT  
2000

### Manufacturers Supported

General Electric  
Koyo PLC Direct  
OPTO 22  
Siemens

### Features Include:

- Supports multiple OPC clients.
- OPC Data Access 2.0 compliant.
- OPC Automation Interface provided for direct connection to Visual Basic.
- Compatible with Microsoft Windows 95 with DCOM, Win 98, Windows NT 4.0, and Windows 2000.
- CSV file import/export feature for easy setup in third party spreadsheet or database.
- GUI allows one step procedure to setup thousands of Items.
- Remote tag browsing from OPC clients.
- Device simulation for off-line data testing.
- Easy installation, self-registering.
- Multi-threaded for high-speed execution.
- Download servers from [www.eldridgeeng.com/prod01.htm](http://www.eldridgeeng.com/prod01.htm)

Catalog Number	Unit Price	Availability
OPC-Servers	\$495 - \$1,500	Now

### Networks Supported

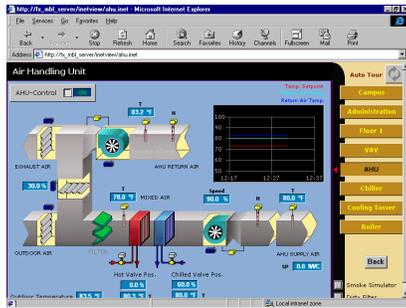
Arcnet  
Ethernet  
RS232  
RS485



### Eldridge Engineering, Inc.

708 West 20th Avenue  
Spokane, WA 99203  
USA

Phone: (1) 509 838-7517  
Fax: (1) 509 838-7037  
e-mail: [ken@opcsystems.com](mailto:ken@opcsystems.com)  
Web: [www.opcsystems.com](http://www.opcsystems.com)



### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

95  
98  
NT

Facility SCADA is a Windows based SCADA product targeted at the Building Automation Industry. Facility SCADA has the capability of collecting data from a wide variety of subsystems/protocols including LonWorks®, BACnet® and MODBUS®. Information is distributed through the enterprise network using TCP/IP and displayed via Microsoft Internet Explorer with the aid of ActiveX Document Technology.

The OPC interface packaged with Facility SCADA, gives it (Facility SCADA) the ability to play the role of an OPC Client. The OPC interface supports the data access servers of version 1.0 as well as 2.0.

The HMI (Human Machine Interface) is built using the very same building blocks used to construct Web Pages. High quality HMIs normally seen only on User Interfaces such as Web Pages are thus achievable. The HMI building technique is primarily Point and Click combined with Drag and Drop. This Zero Code Development environment makes Facility SCADA a Rapid Application Development Tool for the Building Automation Industry.

### Features Include:

- Support for most industry standard protocols
- Distributed Architecture
- Exception based communication mechanism
- Real Time and Historical Trending
- High Level Scheduling
- Alarm Notification via speech synthesis and e-mail
- Multimedia Capable
- Windows 9x and NT

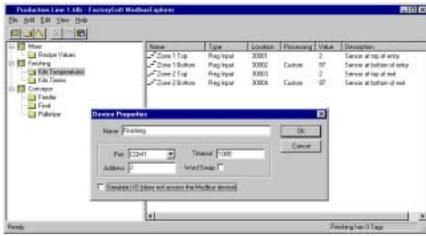
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



### Eutech Cybernetics (Pte). Ltd

Block 55  
Ayer Rajah Crescent  
#04-01/07, Singapore 139949

Phone: (65) 7787995  
Fax: (65) 7774186  
Web: [www.ecyber.com](http://www.ecyber.com)



The FactorySoft Modbus OPC server is a complete server for the Modbus ASCII/RTU protocol. It meets the full requirements of the OPC Data Access specification and offers helpful user interface features such as drag & drop configuration and built-in data monitoring.

**Features Include:**

- Multithreaded design assigns separate processing thread to each data group for maximum performance.
- Import and export of tag database to CSV files for fast development or bulk editing.
- Redundancy feature allows alternate connection path to be defined for each Modbus device.
- Select full scan or manual operation for individual tags allowing override of field signals during testing or in the event of failure. Built-in simulation is also included.
- Supports COM, DCOM and OLE Automation versions of the OPC interface.

**OPC Compatibility**

OPC Data Access 1.0a  
OPC Data Access 2.0

**Operating Systems Supported**

NT

**Manufacturers Supported**

Modbus ASCII  
Modbus RTU

Catalog Number	Unit Price	Availability
OPC-Modbus	\$995	Now



**FactorySoft, Inc.**

Cabot Business Park  
89 Forbes Boulevard  
Mansfield, MA 02048  
USA

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e-mail: [info@factorysoft.com](mailto:info@factorysoft.com)  
Web: [www.factorysoft.com](http://www.factorysoft.com)



### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

NT

### Manufacturers Supported

Selectron

### Networks Supported

CAN

The MAS OPC Server is developed for the ferrocontrol Modular Automation System (MAS) for control and positioning with networking via CAN-bus and programming according to the IEC 1131-3 standard. As an integrated and expandable system, MAS links up various functional units by sharing the common CAN-Bus. The system is available in three different performances:

- MAS CompactPLC: Decentral unit for smaller applications with CAN interface.
- MAS PowerPLC: Fast decentral unit based on an embedded system with CAN and Ethernet.
- MAS SoftPLC: Integrated in an industrial PC on Windows NT.

### Features Include:

- OPC Server for all MAS systems.
- Access to the PLC gateway via TCP/IP.
- The ferrocontrol intelligent digital drive systems (DARC) are linkable.
- Including NC axis positioning and interpolation with DIN 66025.
- PLC programming with IEC 1131-3.

Catalog Number	Unit Price	Availability
MAS OPC Server	Consult Factory	Now



### ferrocontrol

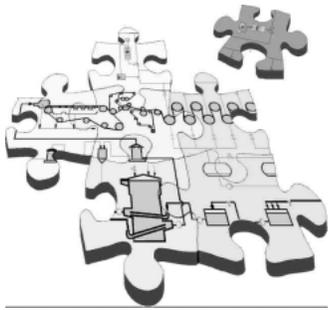
Bodenschwinghstr. 20  
32049 Herford  
Germany

Phone: (49) 5221 9660

Fax: (49) 5221 66347

e-mail: [wduerpjohann@ferrocontrol.de](mailto:wduerpjohann@ferrocontrol.de)

Web: [www.ferrocontrol.de](http://www.ferrocontrol.de)



### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

NT

Apros OPC Server gives a standard OPC view into the Apros (Advanced Process Simulation ) simulation database. Apros provides tools for fast and accurate modeling of fossil, nuclear, chemical, pulp and paper processes. Dynamic simulation using these high-fidelity models is an effective problem-solving tool for process and automation design and analysis as well as for operator training and support.

Apros OPC Server works as a front process for both NT and UNIX versions of Apros providing powerful, yet easy-to-use, services for reading and writing data. With Apros OPC Server it is easy to give an access to the simulation data e.g. to training operator user interfaces or to OPC compliant visualization tools for monitoring simulation variables. Using OPC cross connectors the simulator can also be connected to distributed control systems (DCS) of different vendors supporting OPC data access. This way a dynamic process model can be controlled by an actual control application, which opens new possibilities for designing and testing of automation solutions as well as for operator training. The background implementation of the OPC interfaces is based on a fast TCP/IP connection to the database. Browsing of the database and snapshot management are also implemented using this real-time link, which keeps the server address space view constantly up to date.

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



### FINN TECH

Finntech Finnish Technology Ltd Oy  
Innopoli, Tekniikantie 12  
P.O. Box 402  
FIN-02151 Espoo  
Finland

Phone: (358) 9-4561  
Fax: (358) 9-456-7007  
e-mail: [Kaj.Juslin@vtt.fi](mailto:Kaj.Juslin@vtt.fi)  
Web: [www.finntech.fi](http://www.finntech.fi)



### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

95  
98  
NT

### Manufacturers Supported

All HART field device vendors

### Networks Supported

SYSTEM INTERFACE:  
-DeltaV  
-PROVOX  
-RS3  
-Alstom  
HART MULTIPLEXER:  
-Arcom  
-Elcon  
-MTL  
-P+F  
STAHL (pend.)  
HART MODEM

### Access valuable information about your HART, Field Devices

The Fisher-Rosemount AMS OPC Server provides HART device configuration, alert, and diagnostic information to any OPC client application.

The AMS OPC Server is the essential link to HART field device information for users across the enterprise. OPC client applications can be purchased from Fisher-Rosemount or any OPC Foundation member. Integration solutions range from simple spreadsheet reports to DCS/HMI graphics to Computerized Maintenance Management Systems or Enterprise Resource Planning systems.

AMS is the universal interface to all HART field devices through the many supported networks listed below.

Unit price of \$3000 is introductory for a period of time.

### Features Include:

- Read and write access for HART device parameters
- Support for Windows NT, Windows 95, Windows 2000 and Windows 98 clients
- Support for all HART field devices based on HART Device Descriptions
- Support for browsing OPC data items
- Audit Trail logging of device parameter modifications

Catalog Number	Unit Price	Availability
Consult Factory	\$3000	3Q 2000



**Fisher-Rosemount**  
12001 Technology Drive  
Eden Prairie, MN 55344  
USA

Phone: (1) 612 828-3022  
Fax: (1) 319 395-0059  
e-mail: [ams@adtrack.com](mailto:ams@adtrack.com)  
Web: [www.assetweb.com](http://www.assetweb.com)

*\*See Additional Company Information*



### OPC Compatibility

OPC Data Access 2.0  
 OPC Data Access 1.0a  
 Alarms and Events 1.0

### Operating Systems Supported

NT

### Manufacturers Supported

Fisher-Rosemount Systems

### Networks Supported

Ethernet  
 HART Foundation  
 Foundation Fieldbus  
 Profibus DP  
 AS-I bus

The Fisher-Rosemount DeltaV process automation system provides OPC servers based on the Data Access and Alarms and Events specifications.

The DeltaV OPC Server provides extremely fast, secure, plug-and-play access from any OPC client application into the DeltaV process automation system. Your OPC clients get full access into today's smartest field devices, because the DeltaV system has been built from the ground up around these standards. No add-on's or 3rd-party tools are required. FOUNDATION™ Fieldbus, HART and other standards have been architected into the DeltaV system from the start. Additional standards have also been incorporated into each new release such as Profibus DP and Actuator-Sensor Interface (AS-i).

The DeltaV OPC Events Server provides an interface to allow the transfer of alarm and event information from the DeltaV alarms and events subsystem. OPC Alarms and Events clients may use this server to access all alarm and event information from the DeltaV system. Client applications "subscribe" to events using various filtering capabilities, for example by event type, area source, and/or severity.

The OPC Events Server supports every type of event provided by the DeltaV alarm and event subsystem, including: process alarms, status changes, operator changes, device status changes, batch phase state messages, and configuration installations.

#### Features Include:

- Read/Write real-time DeltaV data or read DeltaV alarm and event data from local applications or from any Windows NT, Windows 95, or Windows 98 client
- DeltaV OPC servers provide a browsable interface to all OPC Data Access and Alarms and Events client applications
- OPC Alarms and Events client applications may filter the alarms and events based on their individual requirements
- Full access to HART FOUNDATION™ Fieldbus devices
- Full access to FOUNDATION™ Fieldbus devices
- All system data and diagnostics information available via OPC
- Fully secure communications using robust DeltaV mechanisms

Catalog Number	Unit Price	Availability
VE2201Sxxxxx (Data Access)	Consult Factory	Now
VE2228 (Alarms & Events)	Consult Factory	Now



#### Fisher-Rosemount Systems, Inc.

8301 Cameron Road  
 Austin, TX 78754  
 USA

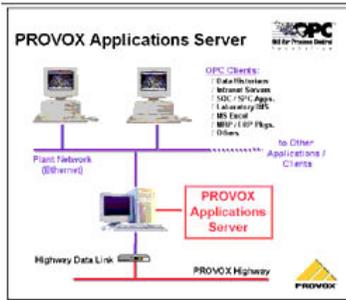
Phone: (1) 512 835-2190; (1) 800 654-7768

Fax: (1) 512 832-3443

e-mail: [info@EasyDeltaV.com](mailto:info@EasyDeltaV.com)

Web: [www.EasyDeltaV.com](http://www.EasyDeltaV.com)

*\*See Additional Company Information*



PROVOX Applications Server (NT2111) provides an OPC-compliant server to interface OPC clients and other user applications with Fisher-Rosemount Systems' PROVOX control system. The PROVOX Application Server runs on a personal computer (purchased separately) using Microsoft Windows NT (4.0) operating system and connects to the PROVOX system via Ethernet. The PROVOX Applications Server provides real-time data to both user-written and industry-standard, third-party applications such as Microsoft Excel, Intellution FIX, Aspentech InfoPlus.21, and many others.

### Features Include:

- Real-time PROVOX system data on a Windows NT and OPC-compliant platform
- True server functionality providing multiple client access to a single, common server minimizing costs and ensuring consistent data to all clients
- Supports Microsoft COM and Distributed COM (DCOM) client interface
- Ready-to-use Microsoft Excel (Add-in application with point-and-click, tool-bar operations)
- Support for Visual Basic programming interface
- Provides Fisher-Rosemount Systems' Computer Highway Interface Package (CHIP) with up to 10,000 point access
- Provides CHIP application program interface (API) supporting C language application development
- Upgrade packages available for existing Provox Chip users

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

NT

Catalog Number	Unit Price	Availability
FSNT2111-1	Consult Factory	Now



### Fisher-Rosemount Systems, Inc.

8301 Cameron Road  
Austin, TX 78754  
USA

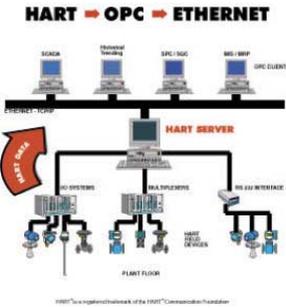
Phone: (1) 512 835-2190; (1) 800 654-7768

Fax: (1) 512 832-3443

e-mail: [info@EasyDeltaV.com](mailto:info@EasyDeltaV.com)

Web: [www.EasyDeltaV.com](http://www.EasyDeltaV.com)

*\*See Additional Company Information*



The HART Server provides a standard method for accessing the wealth of process and diagnostic information available in field instrumentation using the HART Communication Protocol.

The HART Server makes it easy for SCADA/HMI, Historical Trend, SQC/SPC, and MIS/ERP OPC applications to access the process data available in HART-capable instruments anywhere in the plant. HART-capable instruments can be directly connected to the PC serial port through commonly available RS-232 interfaces. Systems of HART devices can be connected through HART-capable multiplexers and I/O systems.

Installation and start-up are simplified as the HART Server "learn" feature automatically recognizes and establishes communication with all connected HART devices.

**Features Include:**

- Enables OPC client applications to access standard information available in all HART devices.
- Supports OPC client applications with access to:
  - Digital process values and engineering units in multi-variable HART devices
  - Range values and other instrument properties for monitoring/modification
  - Continuous instrument status and diagnostics information
- Multiple clients can access the same HART information simultaneously.

HART® is a registered trademark of the HART Communication Foundation

**OPC Compatibility**

OPC Data Access 1.0a

**Operating Systems Supported**

- 95
- 98
- NT

Catalog Number	Unit Price	Availability
HCF_KIT-175	Consult Factory	Consult Factory



**HART Communication Foundation**

9330 Research Blvd., Suite I-350  
 Austin, TX 78759-6540  
 USA

Phone: (1) 512 794-0369  
 Fax: (1) 512 794-3904  
 Web: [www.hartcomm.org](http://www.hartcomm.org)



The HIMA OPC Server acts as a transmission interface between the HIMA PES H41q/H51q, the HIMA Planar4 system and DCS, visualization systems or other systems which have an OPC interface. It supports the OPC Data Access 1.0a and 2.0. So the HIMA automation systems are open for any system, which has an OPC client available. For easy configuration the HIMA OPC Server has a user interface and supports tag browsing and server browsing.

**Features Include:**

- User interface
- Direct data access to HIMA configuration tool ELOP II-NT
- Redundant data access to HIMA systems
- Connection information
- Full support of tag properties
- Browsing interface

**OPC Compatibility**

OPC Data Access 1.0a  
OPC Data Access 2.0

**Operating Systems Supported**

NT

Catalog Number	Unit Price	Availability
N/A	Consult Factory	N/A



**HIMA Paul Hildebrandt GmbH + Co KG**

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68782 Mannheim  
Germany

Phone: (49) 6202 709-0  
Fax: (49) 6202 709 107  
e-mail: [t.bartsch@hima.com](mailto:t.bartsch@hima.com)  
Web: [www.hima.com](http://www.hima.com)



The Windows NT-based Application Processing Platform (APP) is a powerful vehicle for serving or hosting Honeywell, user and third-party advanced applications on the Honeywell TotalPlant Solution (TPS) system.

This versatile, open application platform gives you all the power and freedom you need to serve your plant's strategic automation objectives. It represents an evolution from Honeywell's TDC Application Module (AM), enabling users to enjoy familiar AM features and benefits. At the same time it expands user flexibility with these technological advancements:

**Features Include:**

- TPN Server - an OPC 2.0 server that allows hosted or network connected OPC applications to read, write, or scan data in the TPS Process Network (TPN). Capable of supporting both OPC 1.0a and 2.0 clients.
- Honeywell Communication Interface (HCI) - a standard communication interface encapsulating OPC Data Access 2.0 while providing additional, optional, value-added interfaces for enhanced security, ease of use, and robustness to advanced applications.
- System Infrastructure - software technology providing a unified approach for security, configuration, and execution.

For other locations please reference our International Directory on the web at: [www.iac.honeywell.com/UserCom/contacts/SalesInt.html](http://www.iac.honeywell.com/UserCom/contacts/SalesInt.html)

**OPC Compatibility**

OPC Data Access 1.0a

**Operating Systems Supported**

NT

Catalog Number	Unit Price	Availability
TP-ASP1xx	Consult Factory	Now



**Honeywell IAC**  
 16404 N. Black Canyon Highway  
 Phoenix, AZ 85053  
 USA

Phone: (1) 800 343 0228  
 Web: [www.iac.honeywell.com/plantscape/index.stm](http://www.iac.honeywell.com/plantscape/index.stm)



Honeywell's PlantScape Process system is the first powerful, yet affordable control system to address the full spectrum of hybrid control needs. PlantScape Process not only delivers integrated continuous, batch, and discrete/machine control, it also provides integrated security and HVAC control, safety management, field control and numerous application packages to help you get the most out of your process.

**Features Include:**

- Scalable client/server architecture
- Open system that supports OPC, ODBC, ActiveX, Foundation Fieldbus and ControlNet
- Support for both OPC Client and Server
- State-of-the-art Hybrid Controller
- Global database, graphical tools, and integrated applications
- Powerful, flexible control algorithms that are based on decades of experience in process control
- SafeBrowse™
- Microsoft Visual Basic for display scripting

For other locations please reference our International Directory on the web at [www.iac.honeywell.com/UserCom/contacts/SalesInt.html](http://www.iac.honeywell.com/UserCom/contacts/SalesInt.html)

**OPC Compatibility**

OPC Data Access 1.0a

**Operating Systems Supported**

NT

**Manufacturers Supported**

Honeywell

**Networks Supported**

ControlNet  
 Ethernet  
 Foundation Fieldbus  
 TPS Process Network

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



**Honeywell IAC**

16404 N. Black Canyon Highway  
 Phoenix, AZ 85053  
 USA

Phone: (1) 800 343 0228

Web:

[www.iac.honeywell.com/plantscape/index.stm](http://www.iac.honeywell.com/plantscape/index.stm)



PlantScape® SCADA is specifically designed to meet your complex control needs for dispersed, remote or unmanned operations. Offering reliable communication between remote locations via fiber optic cable, satellite, leased lines, radio and microwave signals. Robust and flexible, PlantScape interfaces with Honeywell devices and a host of third party PLCs, RTUs, flow computers and safety systems.

### Features Include:

- Scalable architecture
- Out-of-the-box configuration
- Support for both OPC Client and Server
- Remote capabilities including configuration, operator stations, RTUs
- Comprehensive diagnostics
- Open system that supports OPC, ODBC, and ActiveX
- SafeBrowse™
- Microsoft Visual Basic for display scripting
- Advanced alarm management
- Built-in security feature
- Unlimited historical data collection
- Real time and historical trends
- Preconfigured standard reports

For other locations please reference our International Directory on the web at [www.iac.honeywell.com/UserCom/contacts/SalesInt.html](http://www.iac.honeywell.com/UserCom/contacts/SalesInt.html)

### OPC Compatibility

OPC Data Access 1.0a

### Operating Systems Supported

NT

### Manufacturers Supported

Honeywell

### Networks Supported

ControlNet  
Ethernet

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



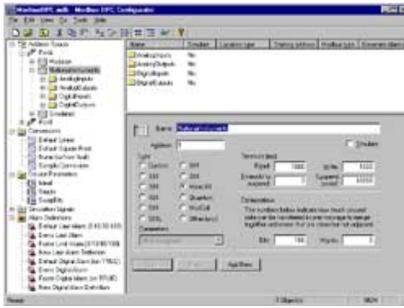
### Honeywell IAC

16404 N. Black Canyon Highway  
Phoenix, AZ 85053  
USA

Phone: (1) 800 343 0228

Web:

[www.iac.honeywell.com/plantscape/index.stm](http://www.iac.honeywell.com/plantscape/index.stm)



**ICONICS OPC Servers** provide direct communications to any compatible PLC or device. Our OPC Servers support most popular communication protocols with serial, Ethernet, or modem connections.

**ICONICS OPC Servers** support direct import of various formatted databases for bulk edits and rapid deployment. Powerful Tag Browsing capability provides easy and seamless connection to compatible devices. **ICONICS OPC Servers** are fully compliant with OPC 1.0a and OPC 2.0. Plug and play with any OPC compatible HMI, SCADA and Control applications using the OPC custom interface. Create Visual Basic or VBA based applications that work with built in OPC 2.0 OLE Automation support.

All **ICONICS OPC Servers** are based on COM/DCOM technology and support local, Intranet, Internet and remote modem communications.

**ICONICS OPC Servers** come complete with OPC Configuration Explorer for rapid configuration, integrated real-time monitoring of OPC tags, a powerful OPC Universal Tag Browser for Internet and Intranet tag viewing and an OPC 1.0/2.0 Test Client Application.

### Features Include:

- Designed for Windows NT, 95/98 and 2000
- Support OPC Browse Interface
- Integrated Real-time Data Monitor
- 32-bit Multi-threading, Multi-Processor Design
- Supports OPC Data Bridge & Redundancy
- Assign separate threads per data group
- Online Configuration of OPC Tags
- Supports COM/DCOM & OLE Automation
- CSV Import/Export for Bulk Edit
- Built-In Fast Simulation

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0  
Alarms and Events 1.0

### Operating Systems Supported

95  
98  
NT  
2000

### Manufacturers Supported

Allen-Bradley  
ADAM  
Beckhoff  
Bristol Babcock  
Cutler-Hammer  
General Electric  
KOYO  
Mitsubishi  
Moore Procidia  
OPTO  
Siemens  
Texas Instruments  
Toshiba  
Yokogawa

### Networks Supported

BACNET  
Data Highway+  
Ethernet  
Interbus S  
LONWORKS  
Modbus  
Modbus Plus  
Profibus

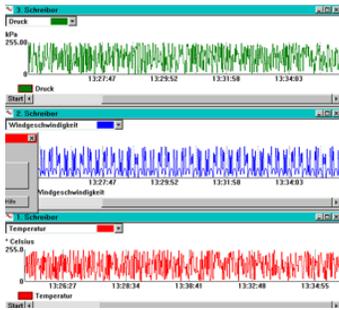
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



### ICONICS

Marketing Department  
100 Foxborough Boulevard  
Foxborough, MA 02035  
USA

Phone: (1) 508 543-8600  
Fax: (1) 508 543-1503  
e-mail: [info@iconics.com](mailto:info@iconics.com)  
Web: [www.iconics.com](http://www.iconics.com)



### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

NT  
2000  
98  
95

### Networks Supported

Profibus  
CAN

### \_is SpiderLog for Profibus

The data logger \_is SpiderLog is especially designed to control, visualize and archive measurement data in Profibus based networks without creating additional traffic. The OPC server interface can be used for the connection to SCADA systems. The logger is predestined for maintenance work in control stations.

### \_is Pro MultiServer

Based on any adapter of our \_is Pro Profibus product range the server offers a comfortable access to the data of one or even several Profibus networks.

### \_is CAN OPC Server

Our CAN server offers comfortable access to our \_is CAN interfaces, supporting different CAN protocols.

### Features Include:

#### \_is SpiderLog for Profibus

- Profibus protocols: DP, DP/V1, PA
- Up to 16 physical channels
- Transmission speed: 9.6 kbit/sec. to 1.5 Mbit/sec.
- Measured items maximum 1000
- Scan rate minimum 1 sec.

#### \_is Pro MultiServer

- Profibus protocols: DP Master class 1 and 2, DP/V1 via MSAC2, PA via RS485
- Tools for configuration and demonstration

Catalog Number	Unit Price	Availability
_is SpiderLog	Consult Factory	Now
_is Pro MultiServer	Consult Factory	Now
_is CAN OPC Server	Consult Factory	Now



### ifak system GmbH

Steinfeldstrasse 3  
39179 Barleben  
Germany

Phone: (49) 39203 81920  
Fax: (49) 39203 81939  
e-mail: [aut@ifak-system.com](mailto:aut@ifak-system.com)  
Web: [www.ifak-system.com](http://www.ifak-system.com)

INAT OPC server is developed for process visualization systems.

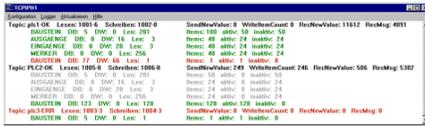
You can use it to link your process visualization system to a TCP/IP or H1 network for the communication with S5 and S7 controllers.

Options: Besides standard TCP/IP the INAT OPC server provides the Siemens RFC1006 protocol and the H1 protocol for the communication with the S5 and S7 PLCs.

Standard Ethernet adapters are sufficient.

### Features include:

- Universal standard interface for all OPC clients
- Comparison of new / old data in the OPC Server.
- A cumulative frame list reduces the writing to the plc.
- Status display and OPC server logger.
- Easy configuration of TCP/IP and H1 connections.
- Clearly arranged list of all parameterized connections with status display.
- Number of topics and items is limited only by the RAM memory of your PC.



### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

NT  
2000  
98  
95

### Manufacturers Supported

Communication Processors:

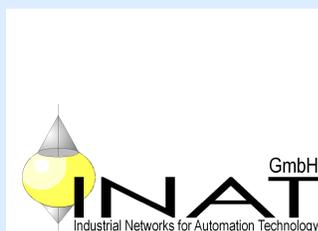
-INAT S7-TCP/IP  
-S5-TCP/IP  
-S5-H1  
-Siemens CP 1430, S7-443-1  
S7-343-1.

Visualization Systems:

RSView™, InTouch™, FIX™,  
Factory Link™, Graph PIC®,  
ZENON®, VISIWIN®, RAMSES®,  
DIADEM®, GENESIS32®,  
InVISU®, Procon WIN®,  
WIZCON™

### Networks Supported

TCP/IP  
H1



**INAT GmbH**  
Ostendstraße 115  
90482 Nürnberg  
Germany

Phone: (49) 911 544 27-0  
Fax: (49) 911 544 27-27  
e-mail: [info@inat.de](mailto:info@inat.de)  
Web: [www.inat.de](http://www.inat.de)



Informetric System's Legacy Connect™ Server allows roll goods manufacturers to enhance system reporting, operator interface and management functions without costly upgrades. Users can easily deploy supervisory control, distribute process information, and produce certification documentation using off-the-shelf OPC clients. Legacy Connect's configurable trigger types are well suited to developing event-based applications such as downtime reporting, product tracking databases and defect mapping.

**Features Include:**

- Extracts process, quality and production data from on-line gauging systems
- Suitable for connecting to supervisory control, statistical process control, enterprise resource planning, and process/production database systems
- Triggers and tags are configured through intuitive Windows dialogs
- Supported data types include Booleans, integers, floating point numbers, strings, and arrays
- Acts as a bridge between legacy gauging systems and network computing environments
- Easily integrates with popular industrial software

**OPC Compatibility**

OPC Data Access 1.0a

**Operating Systems Supported**

NT

**Manufacturers Supported**

ABB  
Eurotherm  
Measurex  
NDC  
OSI

**Networks Supported**

Ethernet  
TCP/IP  
UDP  
Serial  
Backplane  
Data Freeway

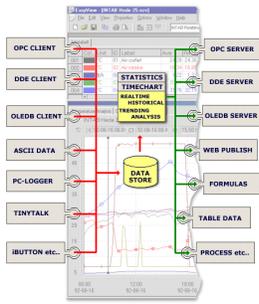
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



**Informetric Systems, Inc.**

1025 Solano Avenue  
Albany, CA 94706  
USA

Phone: (1) 510 524-8399 x.201  
e-mail: [sales@informetric.com](mailto:sales@informetric.com)  
Web: [www.informetric.com](http://www.informetric.com)



In its role as a server, EasyView provides OPC data access to INTAB's range of dataloggers. EasyView is also able to act as a bridge between other servers and clients, providing the clients with realtime data computed from the data provided by the servers as well as managing data storage. Due to its modular and open design the EasyView system is highly configurable, enabling advanced as well as simple recording and data management architectures.

#### Features Include:

- State-of-the-art Realtime trending.
- Modular design through plug-in architecture.
- Project management for recording tasks.
- Advanced grouping of both recordings and projects.
- Support for simultaneous logging on multiple sources.
- OLEDB plug-in for external data access and storage.
- User definable key values and graph formulas.
- Many different types of data views available.
- Data reduction management.
- Drag'n'drop import/export of data.

#### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0  
Historical Data Access 1.0

#### Operating Systems Supported

98  
2000  
NT

#### Manufacturers Supported

INTAB  
Gemini  
Spectrum  
OEM loggers

#### Networks Supported

OEM networks

Catalog Number	Unit Price	Availability
N/A	\$355-\$1950	Now



#### INTAB Interface-Teknik AB

Martin Fredriksson  
Gjutarevägen 1  
Stenkullen SE-443 61  
Sweden

Phone: 46 (0)302 235 05  
Fax: 46 (0)302 232 00  
e-mail: [opc@intab.se](mailto:opc@intab.se)  
Web: [www.intab.se](http://www.intab.se)



The “Janz OPC Server” is software which manages the connection between Janz *MODULbus* modules and the OPC world. This main module is able to provide data from numerous different types of hardware interfaces. For each module, customers want to read from or write to, an additional library is used. Depending on the module the corresponding DLL is combined with the server. Among other modules this includes a module for CANopen network connections.

**Features Include:**

- One main OPC server supporting OPC Data Access Interface 2.0 and 1.0a.
- Capable of providing data from many different hardware modules with one OPC server using ‘Janz hardware support DLLs’.
- Many different digital and analog I/O modules for MODULbus supported, especially CANopen.
- A separate path is added in the OPC server’s namespace for every included module.

**OPC Compatibility**

OPC Data Access 1.0a  
OPC Data Access 2.0

**Operating Systems Supported**

95  
98  
2000  
NT

**Manufacturers Supported**

Janz Computer AG

**Networks Supported**

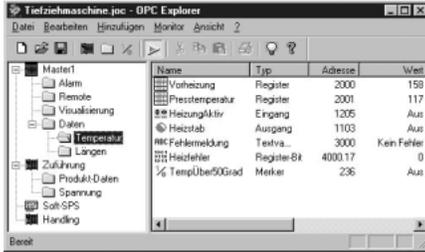
CANopen

Catalog Number	Unit Price	Availability
JanzOPCServer	Consult Factory	2Q 2000



**Janz Computer AG**  
Im Dörener Feld 8  
D-33100 Paderborn  
Germany

Phone: (49) 0 5251 15 50 0  
Fax: (49) 0 5251 15 50 90  
e-mail: [mail@janz.de](mailto:mail@janz.de)  
Web: [www.janz.de](http://www.janz.de)



This is an OPC-server for the connection of Windows software to PROCESS-PLC systems. OPC is an automation technique standard based on Microsoft OLE. Several Clients have access to PROCESS-PLC systems via the server. All software meeting OPC standards may serve as Client.

The Jetter OPC-Server supports communication with all Jetter PROCESS-PLC control systems via serial interface or the field bus JETWay. It is a multi-threaded OPC-Server, in order to achieve high performance for all OPC-Clients on local and network computers. The Jetter OPC-Server supports all interfaces prescribed by OPC Specification 1.0, as well as additional useful features like drag & drop configuration and installed data visualizing.

### OPC Compatibility

OPC Data Access 1.0a

### Operating Systems Supported

NT

### Features Include:

- OPC-Server for Windows NT
- Simple access to realtime data via symbolic addressing- Supports several OPC-Clients
- Multithreaded design achieves maximum performance by providing the possibility of separate threads for each group
- Supports COM, DCOM, and OLE automation of the OPC-interface
- Supports browsing of variables via OPC-Clients
- Data rate 10 ms or the maximum data rate of connected control systems
- Simple installation with self-registration
- Comprehensive Online-Help for handling and configuration

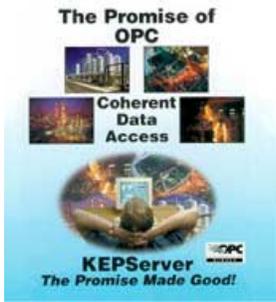
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory



### Jetter AG

Ludwigsburg  
D-71642  
Germany

Phone: (49) 7141 255-0530  
Fax: (49) 7141 255-0484  
e-mail: [sales@jetter.de](mailto:sales@jetter.de)



### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

95  
98  
2000  
NT

### Manufacturers Supported

Allen Bradley  
General Electric  
Siemens  
Modicon  
Koyo PLC Direct  
SquareD  
Mitsubishi  
Texas Instruments  
Omron  
Idec  
Telemecanique  
Toshiba  
Toyopuc  
Yokogawa  
Ethernet I/O

### Networks Supported

DF1  
GE Ethernet & EGD  
Siemens PPI/MPI/AS511  
Modbus RTU  
Modbus Plus  
PLCdirect Serial/Ethernet  
SquareD RS-422  
TBP/TIWAY/ 2572 Optilogic  
Ethernet I/O  
Modbus Open Ethernet  
Unitelway  
Data Highway +  
AB Ethernet

KEPware's latest OPC server, KEPServerEX takes OPC technology to new levels of performance while maintaining the ease of use and quality for which it is already known. If you need a wide range of connectivity but don't want to learn how to use a multitude of OPC servers, KEPServerEX offers over 50 communications protocols under one consistent user interface.

### Features Include:

- OPC 1.0a and OPC 2.0 as well as DDE support.
- Tested with every major OPC client application.
- Advanced Tag Scaling with 2.0 property support.
- Advanced protocol diagnostic window.
- Online changes at any time to any parameter.
- Runs as a NT Service or Stand Alone Program
- User Manager with login protects configuration settings.
- Full Featured OPC Quick client for project testing.
- Multi-threaded design insures optimum performance.
- Each driver supports 16 simultaneous communications threads for the ultimate in performance.
- Includes OPC 2.0 Automation Interface and comprehensive Visual Basic examples.
- Modem support included on all Serial Port Drivers.

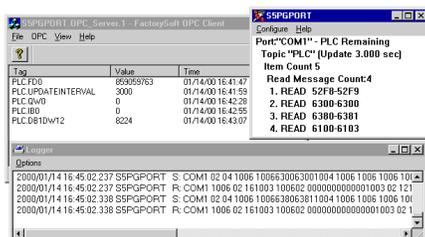
Visit our web site, [www.OPCSource.com](http://www.OPCSource.com) and download our Server Super Pack that contains a demo version of every OPC Server we offer.

Catalog Number	Unit Price	Availability
Consult Factory	\$795	Now



**KEPware, Inc.**  
81 Bridge Street  
Yarmouth, ME 04096  
USA

Phone: (1) 207 846-5881  
Fax: (1) 207 846-5947  
e-mail: [sales@kepware.com](mailto:sales@kepware.com)  
Web: [www.OPCSource.com](http://www.OPCSource.com)



**Klinkmann** belongs to the leading international developers of industrial communication software. So far Klinkmann has developed software for over 100 different protocols and the software is supplied to over 60 countries around the world. Klinkmann is developing software on a subcontracting basis to several international corporations.

Klinkmann expertise covers various automation devices including Siemens, Omron, Allen-Bradley, Modicon, ABB and Valmet as well as different fieldbuses like Profibus, Interbus, LON, CAN, Modbus and TCP/IP.

Other communication related technologies are part of Klinkmann's product range including software based protocol converters, automatic dialing systems, GSM mobile network for wireless communication etc.

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

NT

### Manufacturers Supported

ABB  
Entrelec  
Fisher & Porter  
Klockner Moeller  
OMRON  
Opto 22  
Siemens

### Networks Supported

Ethernet  
RS232

### Features Include:

- Support COM and DCOM client interfaces
- Support tag browsing
- Can run as MS Windows NT Service
- Extensive support for monitoring and controlling communication with PLCs or control devices incl. internal data logging to screen and file
- Online help available
- Built-in DDE (incl. FastDDE) support

Fully functional 1-hour demo versions including user manuals and prices of all Klinkmann OPC Servers are available at: [www.klinkmann.com](http://www.klinkmann.com)

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



### KLINKMANN

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FIN-00371 Helsinki  
Finland

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Fax: (358) 9-513 541  
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Web: [www.klinkmann.com](http://www.klinkmann.com)



### OPC Compatibility

OPC Data Access 1.0a

### Operating Systems Supported

95  
98  
2000  
NT

### Manufacturers Supported

Siemens  
Wonderware  
Intellution  
PCSoft  
GTI  
Inosoft  
Gefasoft

### Networks Supported

Ethernet TCP/IP  
RS232

### MULTIPROG wt – ProConOS – OPC/CALL-R Server

Kloepper und Wiege Software GmbH provides solutions for all industrial control requirements consisting of the IEC 61131 programming tool MULTIPROG wt, the IEC 61131 runtime system ProConOS and the OPC/CALL-R Server. It makes no difference if these are distributed or centralized controls, communication via network, remote service and programming, fieldbus or direct I/O connections, connections to HMI/SCADA, off the shelf soft-PLCs on Windows NT or customer-specific adaptations to any hardware etc.

### Features Include:

The ProConOS OPC/CALL-R Server connects local or remote to the PLC runtime system ProConOS. The user has the advantage of:

- access on multiple MULTIPROG wt PLC projects in one OPC Server workspace.
- access on local instance variables.
- flat and hierarchic browsing by support of the optional OPC interface IOPCBrowseServerAddressSpace.
- automatic synchronization of the OPC Server running on a different PC than MULTIPROG wt after a change in the PLC program.
- access on arrays and/or components of arrays of elementary data types.

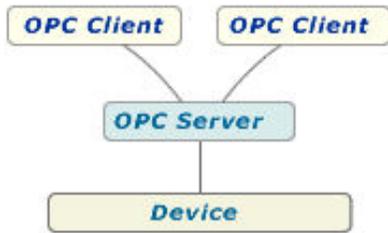
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory



### KW Software GmbH

Lagesche Strasse 32  
D-32657 Lemgo  
Germany

Phone: (49) 52 61 93 73-0  
Fax: (49) 52 61 93 73-26  
e-mail: [info@kw-software.de](mailto:info@kw-software.de)  
Web: [www.kw-software.de](http://www.kw-software.de)



Matrikon OPC servers enable data interchange with OPC clients for an extensive selection of devices and networks that represent our extensive driver and interface development. Our servers are self-optimizing and self-configuring to provide easy, efficient and reliable data transfer.

These servers are available for free download from Matrikon's web site:  
[www.matrikon.com/download](http://www.matrikon.com/download)

**Features Include:**

- Fully OPC 1.0a and 2.0 compliant
- Incorporates Matrikon's proven error management and recovery technology
- Responsive multithreading design
- Optimized polling for peak performance
- Runs as a Windows Service
- Supports OPC browsing
- Includes Matrikon OPC Explorer and Matrikon OPC Simulation Server for Simulation and Testing purposes

**OPC Compatibility**

OPC Data Access 2.0  
 OPC Data Access 1.0a

**Operating Systems Supported**

98  
 2000  
 NT

**Manufacturers Supported**

ABB, Air Liquide, Allen Bradley, Aspen Tech, Bailey, Bristol Bapcock, Ci Technologies (Citect), DDE, Eurotherm, Fisher-Rosemount, Foxboro, General Electric, Gensym G2, Hewlett-Packard, Honeywell, Intellution, Kaye Instruments, Kent DCS, Master Piece, MOD 300 DCN, Modbus, Modicon, Moore, ODBC, Sensor Highway, Siemens, Simons Ideas, Texas Instruments, Triconex, Valmet, West Series, Yokogawa

**Networks Supported**

Data Highway+  
 Ethernet  
 GCOM  
 Modbus Plus  
 RS232  
 TCP/IP  
 CGOM

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now

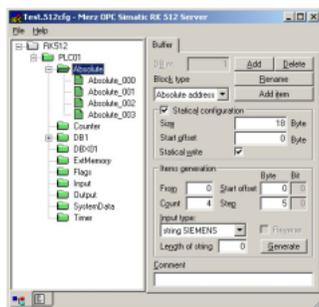


**Matrikon**

OPC Sales  
 Suite 1800, 10405 Jasper Avenue  
 Edmonton, Alberta T5J 2N4  
 Canada

Phone: (1) 780 448-1010  
 Fax: (1) 780 448-9191  
 e-mail: [drivers@matrikon.com](mailto:drivers@matrikon.com)  
 Web: [www.matrikon.com/opc](http://www.matrikon.com/opc)

*\*See Additional Company Information*



Merz OPC Servers are compatible with all local and remote OPC Clients such as HMI, SCADA, and other Custom interface (C++) OPC Client applications. OPC Servers provide full OPC Data Access 1.0a and 2.0 compliance including tag browsing. They can be easily configured in all supported operating systems, i.e. in Windows CE too. Merz also provides a wide range of capabilities for those who need a custom-made OPC Server to meet their special requirements.

### Features include:

- Server can communicate with OPC clients supporting both the OPC Data Access 1.01a and 2.0, even at the same time
- Supports tag browsing, also in a network
- Attempts to renew lost connections with PLC's
- Automatically optimizes data acquisition according to OPC clients' demands
- Can be configured using the Logical or Physical configuration of items – you can reassign variables according to the hierarchical structure in the real world regardless of the item structure inside the PLC
- Creates a .LOG file of various detail levels for easier set-up
- Built-in simulation mode for testing
- Extensive documentation and troubleshooting

Visit our web site at [www.merz-sw.com](http://www.merz-sw.com) and download a 1-hour demoverison of each Merz OPC Server (user manual included).

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

95  
98  
NT

### Manufacturers Supported

Advantech  
Allen-Bradley  
GE Fanuc  
Koyo  
Lenze  
Mitsubishi  
OMRON  
SAIA  
Siemens

### Networks Supported

Modbus RTU  
DDE/NetDDE  
RS485  
RS422

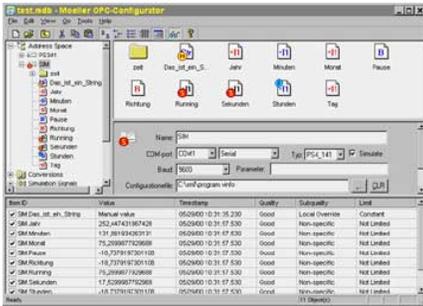
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



### MERZ, spol. s r. o.

U sirotcince 353/7  
CZ-460 01 Liberec 1  
Czech Republic

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Fax: (420) 48 5100273  
e-mail: [aspics@merz-sw.com](mailto:aspics@merz-sw.com)  
Web: [www.merz-sw.com](http://www.merz-sw.com)



The S40 OPC Server from Moeller connects all PLCs of the PS40 device family to OPC client applications. It allows access to the complete marker range of each PLC. Program variables can be automatically extracted from the application program with their symbolic names and data types. This simplifies the use of already declared application variables for the client. The client and PLC can be connected via an RS232, modem or TCP/IP interface. The product is shipped on CD with German and English language support.

### Features Include:

- OPC 1.0 and 2.0 support
- Simultaneous data access to multiple PLC devices
- Simulation tool for testing
- Various interfaces (RS232, modem, TCP/IP)
- Support of all IEC 61131-3 data types
- Import of variables from application program
- Integrated data conversion and/or data scaling

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

Catalog Number	Unit Price	Availability
N/A	DM 650.00	Now

### Networks Supported

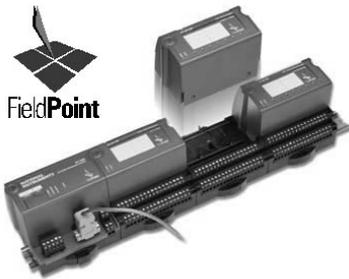
RS232  
TCP/IP



### Moeller

Hein-Moeller Str. 7-11  
D-53115 Bonn  
Germany

Phone: (49) 228 6020  
Fax: (49) 228 6022 433  
Web: [www.moeller.net](http://www.moeller.net)



## FieldPoint Modular Distributed I/O System

FieldPoint is a modular distributed I/O system that provides economical solutions for industrial monitoring and control applications. The FieldPoint system includes a variety of analog and digital I/O and intelligent network modules that are extremely easy to configure and use. FieldPoint delivers reliable, economical data acquisition and control functionality in a compact, rugged package that is easily networked. The FieldPoint OPC server delivers industry-standard connectivity to any OPC client including National Instruments BridgeVIEW and Lookout software.

### Features Include:

- Analog and discrete I/O
- High-voltage isolation
- Easy plug-and-play configuration with HotPnP™
- Low cost
- OPC server provides industry-standard connectivity

To have additional product information, brochures, demonstration software, or newsletters mailed to you, simply fill out our online information request form: [www.digital.natinst.com/guest.nsf/newproduct](http://www.digital.natinst.com/guest.nsf/newproduct)

If you are outside of the United States and Canada, please contact one of our International Branch Offices: [www.natinst.com/niglobal](http://www.natinst.com/niglobal)

### OPC Compatibility

OPC Data Access 1.0a

### Operating Systems Supported

95  
98  
NT

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



### National Instruments Corporation

1150 N Mopac Expressway  
Austin, TX 78759-3504  
USA

Phone: (1) 512 794-0100  
Fax: (1) 512 683-8411  
e-mail: [info@natinst.com](mailto:info@natinst.com)  
Web: [www.natinst.com](http://www.natinst.com)



## Foundation Fieldbus Interfaces

The National Instruments AT-FBUS and PCMCIA-FBUS interfaces connect FOUNDATION Fieldbus devices to standard desktop, industrial, and notebook personal computers. Both types of interfaces connect to H1 (31.25 kb/s) networks and are available in one and two port configurations. NI-FBUS Communications Manager (CM) software for Windows NT/98/95 is included with each interface. Any OPC client including HMI, SCADA and DCS applications can use the NI-FBUS OPC Server for real-time data collection and control on the fieldbus.

### Features Include:

- H1 FOUNDATION Fieldbus Interface
- One or two communication ports
- NI-FBUS Communications Manager software
- Runs as Link Master or Basic Device
- Supports Windows NT/98/95
- OPC server

To have additional product information, brochures, demonstration software, or newsletters mailed to you, simply fill out our online information request form: [www.digital.natinst.com/guest.nsf/newproduct](http://www.digital.natinst.com/guest.nsf/newproduct)

If you are outside of the United States and Canada, please contact one of our International Branch Offices: [www.natinst.com/niglobal](http://www.natinst.com/niglobal)

### OPC Compatibility

OPC Data Access 1.0a

### Operating Systems Supported

95  
98  
NT

### Networks Supported

Foundation Fieldbus H1

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



### National Instruments Corporation

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Web: [www.natinst.com](http://www.natinst.com)



### OPC Compatibility

OPC Data Access 1.0a

### Operating Systems Supported

95  
98  
NT

### Data Acquisition and Signal Conditioning

National Instruments delivers a variety of PC-based data acquisition and signal conditioning products. National Instruments DAQ products are available for ISA, PXI, PCI, CompactPCI, PCMCIA and USB systems, giving users wide-ranging capabilities for high-performance analog and digital I/O. DAQ products offer a variety of functions, including analog and digital I/O, timers and counters. National Instruments also manufactures a wide range of signal conditioning products for interfacing signals and sensor outputs to data acquisition (DAQ) boards and personal computers. National Instruments DAQ products come with a built-in OPC server that provides industry-standard connectivity to any system supporting an OPC client interface.

### Features Include:

- High performance and high accuracy
- Multifunction boards with analog and digital I/O and timers/counters
- Supports ISA, PCI, CompactPCI, PXI, PCMCIA, and USB PC-based platforms
- Plug and play compatibility
- Signal conditioning
- Low cost
- Industry-standard OPC connectivity

To have additional product information, brochures, demonstration software, or newsletters mailed to you, simply fill out our online information request form: [www.digital.natinst.com/guest.nsf/newproduct](http://www.digital.natinst.com/guest.nsf/newproduct)

If you are outside of the United States and Canada, please contact one of our International Branch Offices: [www.natinst.com/niglobal](http://www.natinst.com/niglobal)

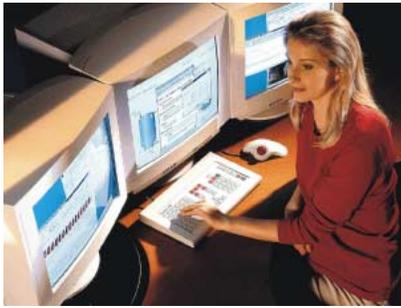
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



### National Instruments Corporation

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Web: [www.natinst.com](http://www.natinst.com)



The Windows NT-based OPC-server improves connectivity of the Damatic XDi open automation system. It enables transfer of real-time process and production data residing in the process stations.

Damatic XDi OPC-server allows OPC-client applications to easily access plant floor data in a consistent manner. It is a powerful, standard and easy-to-use interface, enabling all the satisfied users to take full advantage of the power, capacity and leading edge technology of the Damatic XDi in the Windows NT domain.

### Features Include:

- Direct connection without gateways to the Damatic XDi communication.
- Easy access to real-time process data using name based data addressing.
- Supports all the basic Damatic XDi data types with time stamp and status information as well as texts.
- All diagnostic data available via OPC.
- Utilizes tag configuration data of Damatic XDi engineering system.

### OPC Compatibility

OPC Data Access 1.0a

### Operating Systems Supported

NT

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



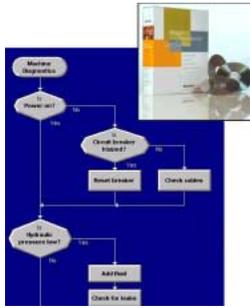
### Neles Automation

Lentokentänkatu 11  
P.O. Box 237  
FIN-33101 Tampere  
Finland

Phone: (358) 2048 3170

Fax: (358) 2048 3171

Web: [www.nelesautomation.com](http://www.nelesautomation.com)



OpenControl provides high speed, deterministic PC-based machine control that replaces proprietary PLCs and enables enterprise access to the plant floor. Applications are built with the Visual Flowcharting Language, providing an intuitive environment for programming and debugging. Compiled flowcharts run under Nematron's HyperKernel real-time Windows NT subsystem, providing performance and determinism not available with NT alone. HMI and other applications run under Windows NT, providing enterprise access to real-time production data. OpenControl is based on the IEC-61131 data model with direct representations of variables as well as alias and wire labels.

### Features Include:

- Intuitive Visual Flowchart Language (VFL) for programming and debugging of machine control applications.
- Simple, Windows-standard drag-and-drop interface eliminates line drawing and positioning of flowchart elements.
- Built-in diagnostic capabilities simplify maintenance and reduce downtime.
- Tightly integrated with Paragon HMI and SCADA software, eliminating redundant databases.

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

NT

### Manufacturers Supported

GE Genius  
Balogh RFID  
Datalogic RFID

### Networks Supported

AB RIO  
DeviceNet  
Interbus-S  
Modicon RIO  
Profibus  
Seriplex

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



### Nematron World Headquarters

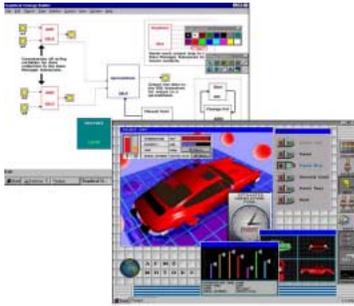
5840 Interface Drive  
Ann Arbor, MI 48103  
USA

Phone: (1) 800 NEMATRON (734 214-2000)

e-mail: [info@nematron.com](mailto:info@nematron.com)

Web: [www.nematron.com](http://www.nematron.com)

*\*See Additional Company Information*



### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

NT

This powerful, flexible HMI/SCADA software package regulates control and management of process information. Paragon delivers high-performance and reliability in networked applications with a scalable database design. This open modular design and dynamic connectivity features simplify integration into enterprise-wide networks. ODBC and Java support provide paths to enterprise relational database and Intranet/Internet systems.

Paragon's OPC servers consist of four distributed (TCP/IP) servers performing a complete range of PC-Based control functions, with integrated I/O drivers, deterministic control engines, alarming and advanced data management. Full browsing of Paragon's hierarchical names is supported and names on remote stations can be browsed.

### Features Include:

- Process I/O Server (PIO) – Over 70 field proven drivers for popular devices.
- Continuous Strategy (CS) Function Block Control Server – Uses a graphical builder with 73 built-in control algorithms and supporting functions.
- OpenControl (OC) Deterministic Sequential Control Server – A flow-chart builder to configure sequential control applications for manufacturing.
- Data Manager Server (DM) – An event-driven, function block based distributed manager for any number of alarm, history and trend collections.

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



**Nematron**<sup>®</sup>  
Open minds. Open systems. Real solutions.

### Nematron World Headquarters

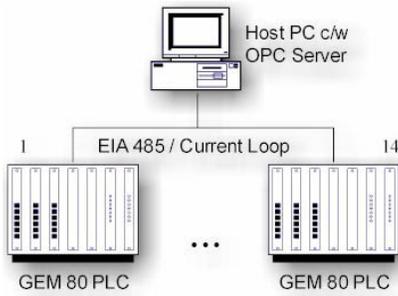
5840 Interface Drive  
Ann Arbor, MI 48103  
USA

Phone: (1) 800 NEMATRON (734 214-2000)

e-mail: [info@nematron.com](mailto:info@nematron.com)

Web: [www.nematron.com](http://www.nematron.com)

*\*See Additional Company Information*



Northern Dynamic Inc.'s GEM 80 OPC Server provides register and bit level access to Alstom Drives and Control's GEM 80 series of Programmable Logic Controllers.

The physical connection to the PLC network can be EIA 232, 485 or current loop. Access to all available tables within the PLC is provided. For newer controllers floating point data is also supported.

Download the GEM80 OPC Server from our website for free. This fully functional trial version runs for 15 days.

### Features Include:

- Simultaneous data transfer from up to 14 PLC tributaries.
- Access to all PLC tables, including read-only tables.
- Automatic tributary table size configuration.
- Protocol level trace logging to window and to file for troubleshooting communication problems.
- Communications statistics are tabulated and available for viewing.
- A pre-defined OPC item is created for each configured tributary which indicates communications status to that PLC.
- Multi-threaded design allows efficient access to data by OPC clients.
- Powered by Northern Dynamic's OPC Server Toolkit.

### OPC Compatibility

OPC Data Access 2.0  
OPC Data Access 1.0a

### Operating Systems Supported

95  
98  
2000  
NT

### Manufacturers Supported

Alstom Drives And Controls  
Gem 80 PLC's Models 100, 130,  
131, 140, 160, 250, 300, 400

### Networks Supported

Gem ESP Protocol  
(EIA-232/485, Current Loop)

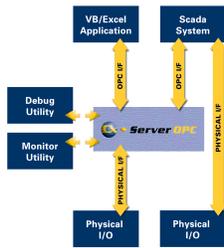
Catalog Number	Unit Price	Availability
GEM80-UL	Consult Web-site	Now



### Northern Dynamic Inc.

J103-155 Frobisher Drive  
Waterloo, Ontario N2V 2E1  
Canada

Phone: (1) 519 725-2071; (1) 888 265-7345  
Fax: (1) 519 725-2072  
e-mail: [solutions@nordyn.com](mailto:solutions@nordyn.com)  
Web: [www.nordyn.com](http://www.nordyn.com)



CX-Server OPC is the software solution to communicate with Omron hardware via the OPC standard.

CX-Server OPC is an OPC server supporting Data Access V2.

All main Omron communication networks and protocols are supported.

CX-Server OPC is part of the CX Automation Suite, Omron's complete and integrated software solution for industrial automation.

The population of CX-Server OPC is very efficient and user friendly. When CX-Programmer is used to create PLC programs, variable names can be imported easily deducing configuration work substantially.

CX-Server OPC can also be linked directly into standard ActiveX containers. A set of HMI ActiveX controls is provided to create small HMI applications in, for example, Excel or VBA.

**Features Include:**

- OPC Data access V2.
- Links directly into ActiveX containers like Excel and VBA.
- HMI ActiveX controls included.
- Easy population and configuration by importing CX-Programmer symbol names.
- Part of CX Automation Suite, the complete software solution for industrial automation.

**OPC Compatibility**

OPC Data Access 2.0

**Operating Systems Supported**

95  
98  
NT

Catalog Number	Unit Price	Availability
N/A	Contact Local Sales Office	Now

**Networks Supported**

Symac Way (hostlink)  
Symac Net  
Ethernet  
Toolbus  
Symac Link  
Symac board  
Controller link  
Modem connection



**Omron Europe**

Wegalaan 67-69  
2132 JD Hoofddorp  
The Netherlands

Phone: (31) 23 5681 300  
Fax: (31) 23 5681 301  
Web: [www.eu.omron.com](http://www.eu.omron.com)

*\*See Additional Company Information*



### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

2000  
NT

### Networks Supported

Interbus  
Ethernet  
ISA  
PCI  
PC/104  
PC Card

### Interbus OPC Server for Generation 4 controller boards

The Interbus OPC Server supplies complete access to Phoenix Contact automation components. The products available for the OPC Interface consist on the hardware side of a large range of PC-plug-in boards and decentralized automation platforms. The configuration of the OPC server is directly integrated in the generic configuration software CMD G4 or the IEC-61131 programming tool PC WORX.

#### Features Include:

- Parallel data access with up to 4 local controller boards and 16 remote controller via Ethernet and Interbus
- Accessible controller boards:
  - Field and Standard Controller with ISA, PCI, PC/104 or PC CardInterface
  - Remote Field Controller via Ethernet and Interbus
- Fast data access with direct memory access on the controller
- Diagnostic and status items for controller and bus systems
- Demo server with 40 items for free download (no time limitation)
- Diagnostic client

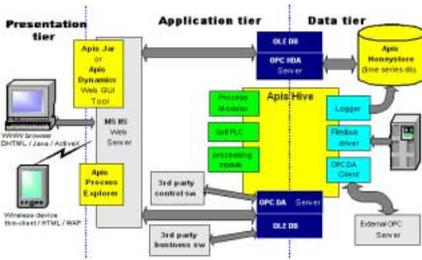
Catalog Number	Unit Price	Availability
2729127	Consult Factory	4Q '98



#### Phoenix Contact GmbH & Co.

Flachsmarkt 8-28  
D 32825 Blomberg  
West Germany

Phone: 49 (0) 5235 3 00  
Fax: 49 (0) 5235 34 12 00  
Web: [www.phoenixcontact.com](http://www.phoenixcontact.com)



Apis Honeystore is a time-series database, designed to provide the best possible performance on standard PC Hardware.

Compared to competing SQL based solutions, it has higher performance, both when storing data and retrieving data. Instead of providing an SQL engine for data retrieval, it provides a standard OPC Historical Data Access interface, and optionally the new alternative to ODBC: OLE DB/ADO.

The database can be used with Apis Hive (another product in this catalog) to provide a very efficient OPC logging system.

**Features Include:**

- C-API and COM/DCOM interface
- Storage capacity and performance scales with the hardware provided
- Caching to memory provides unprecedented data retrieval performance
- Both time-fixed resolution and event based storage
- Runs on Windows NT 4.0 or Windows 2000
- Different sampling rates can be configured for different sets of tags
- Options: OLE DB/ADO interface, Excel plugin, ASCII export, HTML Reporting, Web based trending application

Online Information: [www.prediktor.no/products.htm](http://www.prediktor.no/products.htm)

**OPC Compatibility**

Historical Data Access 1.0

**Operating Systems Supported**

2000  
NT

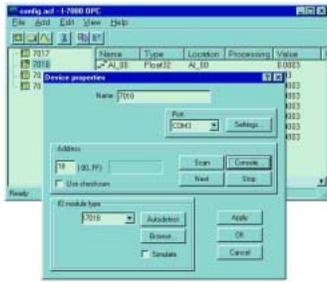
Catalog Number	Unit Price	Availability
03-100	\$5000	Now



**Prediktor AS**

Storveien 3  
N-1624 Gressvik  
Norway

Phone: (47) 69 36 38 50  
Fax: (47) 69 36 38 51  
e-mail: [apis@prediktor.no](mailto:apis@prediktor.no)  
Web: [www.prediktor.no](http://www.prediktor.no)



### OPC Compatibility

OPC Data Access 2.0

### Operating Systems Supported

NT  
95  
98

### Manufacturers Supported

ICP-DAS I-7000 Series  
ADAM-4011  
ADAM-5000/485

### For Remote Serial Input/Output Devices

The Fastwel OPC Servers are OPC compliant Servers able to communicate with I-7000 remote serial I/O devices or ADAM-4000 and ADAM-5000/485 remote serial I/O devices as well as serve data to OPC clients. The Fastwel OPC Servers were implemented using advanced programming concepts of the most current version of the OPC Specification (Version 2) for use in developing next generation industrial software applications.

### Features Include:

- Advanced OPC data quality and data conversion to client's request
- Supports multiple multi-drop I/O Devices
- Supports Multiple Groups for easy configuration and manageability
- Supports up to 4080 devices and modules connected to 16 serial ports
- Internally Simulated for configuration and testing
- Automatically Generated OPC tags for supported device types
- Serial ASCII console mode for data exchange with serial I/O devices manually
- Setting up the device parameters from clients online
- Change Device, Group and Tag properties online
- Flexible engineering units and signal ranges
- Test simple OPC Client included

### System Requirements:

- Windows NT 4.0 (with SR3), Windows 98, or Windows 95 with DCOM is required to use the local server
- Pentium 133
- 32 MB RAM
- 20 MB HDD
- Serial Port for device communication

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory



### ProSoft, Ltd.

Igor Tarasov  
108 Profsoyuznaya Str.  
Moscow 117437  
Russia

Phone: (7) 095 234-0636  
Fax: (7) 095 234-0640  
e-mail: [tarasov@prosoft.ru](mailto:tarasov@prosoft.ru)



Rockwell Software's RSLinx is the comprehensive communications solution for Microsoft's Windows NT and Windows 95/98 operating systems. It provides connectivity between plant floor devices and Rockwell Automation or many third party client applications. With RSLinx you can view all your active networks through a single window and can run any combination of supported applications simultaneously, through same or different communication interfaces. It provides OPC, DDE and custom C/C++ interfaces for use with custom applications.

**Features Include:**

- Compatibility with other Rockwell Software products, Allen-Bradley and third-party companies
- Synchronous read and write access to processor data via OPC, DDE and CAPI interfaces
- Concurrent operation of multiple communication devices
- Intuitive, graphical user interface
- Remote data sharing with other computers via OPC
- Superior speed and reduced network load with optimized reads and writes

**OPC Compatibility**

OPC Data Access 1.0a  
OPC Data Access 2.0

**Operating Systems Supported**

95  
98  
NT

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory



**Rockwell Software Inc.**  
2424 South 102nd Street  
West Allis, WI 53227  
USA

Phone: (1) 414 321-1515  
Web: [www.software.rockwell.com](http://www.software.rockwell.com)



### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

NT

The new TankMaster software package is a complete Human-Machine Interface (HMI) for Saab's tank gauges. The software acts as a master on the tank gauging field bus, polling tank data from the connected storage tanks at refineries and storage plants. It provides set up, inventory and custody transfer functions. Calculations are based on current API and ISO standards.

The TankMaster provides easy access to inventory tank data for any OPC compatible server/client connected to the plant network.

#### Features Include:

- OPC Server for Windows NT
- Online configuration
- Connects to all Saab Tank Control gauges
- Alarm handling
- Trending – Real-time and Historical
- Full Tank Inventory support
- All Data Access Interfaces support, including optional interfaces
- Run-time customized windows

Catalog Number	Unit Price	Availability
TankMaster	Consult Factory	August '99



**SAAB**  
Saab Tank Control

#### Saab Tank Control

Johan Sandberg  
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402 51 Goteborg  
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e-mail: [johan.sandberg@marine.combitech.se](mailto:johan.sandberg@marine.combitech.se)  
Web: [www.saab.tankradar.com](http://www.saab.tankradar.com)



### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

95  
98  
NT

### Manufacturers Supported

Modicon  
Compact  
Micro  
Momentum  
Nano  
Premium  
Quantum

### Networks Supported

Ethernet  
FIPWAY  
ISAWAY  
Modbus  
Modbus Plus  
UNITEL WAY

SAIA-Burgess Electronics S-Bus OPC Server provides the communication with S-Bus protocol to all SAIA-Burgess PCD PLCs.

The S-Bus protocol is an efficient, reliable, low cost protocol implemented in all SAIA-Burgess Electronics PCD PLCs that allows the reading and writing of all PLC medias.

Physical connection to the PLCs can be RS232, RS422, RS485 and current loop in a point-to-point or a network topology.

Also it is possible to connect up to three PCs to a gateway PLC. In this case this gateway PLC is the master of the S-Bus network.

A modem connection between PC and PLC or between different PLCs is also possible.

### Features Include:

- S-Bus data and parity protocol
- Supported SAIA-Burgess Electronics PCD PLC devices: PCD1, PCD2, PCD4 and PCD6
- Read and write to all PLC media
- Supported Modem communication: Create call or answer to incoming calls
- Multiple PLC devices (Up to 255 devices)
- Support multiple OPC clients
- Support port sharing
- Compatible with Microsoft Windows NT 4.0
- Developed with Intellution's Fix Dynamics OPC Server Toolkit

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory

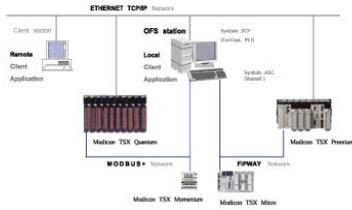


### SAIA-Burgess Electronics AG

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Web: [www.saia-burgess.com](http://www.saia-burgess.com)

### OFS Architecture



Groupe Schneider's OPC Factory Server is designed to provide OPC client applications with easy to use, local or remote access to industrial plant floor data coming from Schneider's PLC families including the Premium, Micro, Nano, Quantum, Momentum, and Compact.

The OPC Factory Server runs on a personal computer using Microsoft Windows 95, 98 or NT (4.0) operating systems and connects to the Schneider's PLCs via Modicon Modbus<sup>®</sup>, Modicon Modbus<sup>®</sup> over TCP/IP, Modicon Modbus Plus<sup>®</sup>, Uni-TE UNITELWAY, FIPWAY, ETHWAY, ISAWAY or Uni-TE over TCP/IP.

The OPC Factory Server provides standard access to real-time information to both customer-written and off-the-shelves third-party applications including HMI, Batch or MES.

Of particular interest to end-users and OEMs is this solution's ability to dynamically access Schneider's Modicon IEC1131 Concept programming software database with the OPC Factory Server that provides direct access to located and unlocated variables for use by OPC client applications, and that is able to dynamically manage the database coherence with an automatic detection of any application change. In addition, the OPC Factory Server supports Modicon Modsoft<sup>®</sup> and PL7 programming software database access via an export feature.

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

95  
98  
NT

### Manufacturers Supported

Modicon  
Compact  
Micro  
Momentum  
Nano  
Premium  
Quantum

### Networks Supported

Ethernet  
FIPWAY  
ISAWAY  
Modbus  
Modbus Plus  
UNITEL WAY

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory

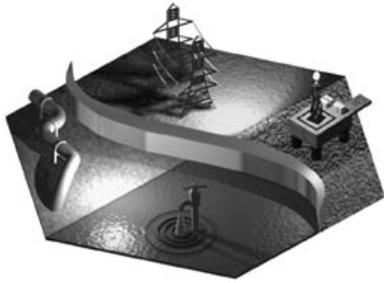


### Schneider Automation Inc.

One High Street  
North Andover, MA 01845-2699  
USA

Phone: (1) 978 975-9079  
Fax: (1) 978 975-9301  
Web: [www.schneiderautomation.com](http://www.schneiderautomation.com)

*\*See Additional Company Information*



SCX software from Serck Controls provides secure data acquisition and control allied to real time performance and a rich set of operational facilities. The requirements of modern businesses for Open Systems architectures and co-operation in enterprise-wide data integration are fully combined.

**Features Include**

- Multi-site architecture
- Enterprise database connectivity
- Object Oriented Graphics
- Trending – Real Time and Historical
- Exception based high performance processing
- Alarm and Event processing
- ODBC compatible
- Visual Basic Scripting

**OPC Compatibility**

OPC Data Access 2.0  
 OPC Data Access 1.0a

**Operating Systems Supported**

NT

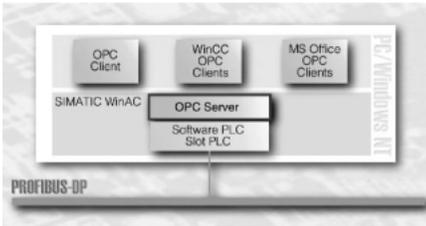
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory



**Serck Controls Ltd**

Rowley Drive  
 Coventry  
 West Midlands CV3 4FH  
 UK

Phone: (0) 1203 305050  
 Fax: (0) 1203 302437  
 e-mail: [sales@serck-controls.co.uk](mailto:sales@serck-controls.co.uk)  
 Web: [www.serck.demon.co.uk](http://www.serck.demon.co.uk)



The Windows Automation Center SIMATIC WinAC is the PC-based control solution within the SIMATIC automation system family by Siemens.

SIMATIC WinAC allows you to use your personal computer like a programmable logic controller (PLC) for running your process.

SIMATIC Computing is part of the SIMATIC PC based control software products that offers data access to the SIMATIC S7 automation system family.

### Features Include:

- ActiveX controls to access process data from the control engine (SIMATIC WinAC, S7-300, S7-400, M7)
- Configuration tool to enable distributed access via network
- PC-based Control solution for "soft" and "hard" real-time requirements

Product catalog: [www.ad.siemens.de/ca01](http://www.ad.siemens.de/ca01)

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

NT

### Manufacturers Supported

Siemens

### Networks Supported

Ethernet  
Profibus DP  
Profibus FMS  
SIMATIC NET

Catalog Number	Unit Price	Availability
ST 70 – 1999	Consult Factory	Now
Interactive Catalog on CD-ROM		
CA 01 – 04/99	Consult Factory	Now



### Siemens

Automation & Drives  
SIMATIC NET  
P.O. Box 4848  
D-90327 Nuremberg  
Germany

Phone: (49) 0911 895-0  
Fax: (49) 0911 895-3009  
e-mail: [simatic.net@nbgm.siemens.de](mailto:simatic.net@nbgm.siemens.de)  
Web: [www.siemens.de](http://www.siemens.de)

*\*See Additional Company Information*





The APOGEE Insight workstation provides a graphical approach to manage and control building control systems with an easy-to-use interface. Advanced navigation techniques simplify the daily tasks operators perform most often. Additionally, the Insight workstation provides for facilities-wide efficiencies and cost effective information sharing. The OPC Server option provides the ability to integrate APOGEE system data with OPC Client applications.

**Features Include:**

- NT client/server architecture
- Graphically monitor and control the building environment
- Schedule facility equipment operations to accommodate time of day and changing occupancy conditions, including temporary overrides, holidays and special events
- Collect, view and analyze trend data
- Alarm management enables operators to respond to out-of-normal conditions that may compromise safety or comfort
- Dynamic trend plotting for system troubleshooting
- Real time graphical status of system architecture profile
- System activity log captures and reports on operator activity from the workstation
- Centralized system management and administration
- Standard report templates for system diagnostics

**OPC Compatibility**

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0

**Operating Systems Supported**

NT

**Manufacturers Supported**

APOGEE Insight 3.2

**Networks Supported**

Ethernet

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



**Siemens Building Technologies, Inc.**

Landis & Staefa Division  
 1000 Deerfield Parkway  
 Buffalo Grove, IL 60089  
 USA

Phone: (1) 847 215-1000  
 Web: [www.sbt.siemens.com](http://www.sbt.siemens.com)

*\*See Additional Company Information*



### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0

### Operating Systems Supported

NT

The APACS+ OPC Device Server provides OPC Client applications with access to data from the APACS+ Advanced Controllers and Quadlog Safety PLCs. APACS+ is an open process control system that can be used for continuous, batch or safety applications with a single unified solution. It utilizes many industry standards such as IEC 61131-3 for controller configuration and programming, common networking standards such as Ethernet TCP/IP, and Windows NT based Operator Stations. The OPC Device Server is an addition to this family of standards included in the APACS+ system. Users of the system will now be able to integrate their choice of OPC Client applications to expand the capabilities of their APACS+ installation.

### Features Include:

- APACS+ offers unrivaled flexibility, and scalability to suit the needs of a wide range of applications using the same set of hardware and software. This provides the users of APACS+ with an economical advantage of applying a single product line across multiple process areas.
- APACS+ combines features of a DCS and PLC in a single unified platform. Applications for the system range from Complex Flexible Batch Processes, to Advanced Continuous Control, to Safety applications using Quadlog.
- The APACS+ OPC Device Server gives users an opportunity to seamlessly supplement the APACS+ functionality with third party OPC Client applications. The interface is easy to use and requires minimal configuration and setup.
- The APACS+ OPC Device Server is a high performance interface that can be used for a wide range of client applications such as process optimization, expert systems, or even custom Visual Basic applications.
- The APACS+ OPC Device Server provides user-friendly diagnostic information making the management and troubleshooting of the OPC connections easy and intuitive.

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory

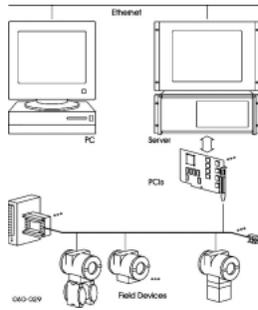


### Siemens Moore Process Automation

1201 Sumneytown Pike  
 Spring House, PA 19477-0900  
 USA

Phone: (1) 215 646-7400  
 Fax: (1) 215 283-6358  
 e-mail: [webmaster@smpa.siemens.com](mailto:webmaster@smpa.siemens.com)  
 Web: [www.smpa.siemens.com](http://www.smpa.siemens.com)

*\*See Additional Company Information*



Using PCI OLE SERVER and PCI Card from Smar System 302, all the Fieldbus data is available to the outside world via a standard OPC interface. PCI is a 16-bit ISA card designed to work inside industrial or commercial PCs. Featuring independent Fieldbus H1 (31.25Kbps) master channels and powered by a 32-bit RISC CPU, it can execute complex Function Blocks on-board. Directly connected to the PC bus, it provides a fast communication path between the Fieldbuses and PC applications.

The PCI OLE SERVER inter-connects one or more simultaneous client applications with Fieldbus interfaces. Clients can access the server located on the same PC or on a remote one through LAN/WAN. This enables the same distributed Fieldbus database to be widely shared among workstations.

### OPC Compatibility

OPC Data Access 1.0a

### Operating Systems Supported

NT

### Features Include:

- 1 to 8 PCI cards installed in the same PC Server.
- Up to 4 Fieldbus H1 on each PCI.
- Redundant operation.
- Fieldbus configuration using OPC.
- Fieldbus supervision using OPC.
- Client/Server architecture via DCOM.

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now

### Networks Supported

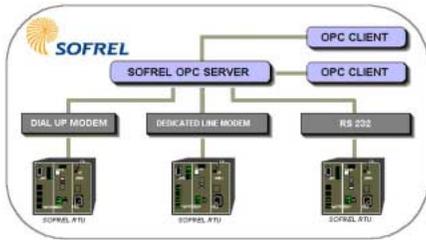
Foundation Fieldbus



### SMAR Research Corporation

Alexandre Pimenta, Interfaces Manager  
 Av. Antonio Furlan Jr. 1028  
 Sertaozinho, SP 14160-000  
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Phone: (55) 16 645 3599  
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 e-mail: [edd.itf@smar.com.br](mailto:edd.itf@smar.com.br)  
 Web: [www.smar.com](http://www.smar.com)



SOFREL OPC Server allows data exchange between OPC Clients and all remote telecontrol SOFREL RTUs (S10, S15, S50, THX, TelBox) and JBUS / MODBUS RTUs.

### Features Include:

- Support OPC Remote Tag browsing
- Multi-threaded design allows concurrent serial ports
- Modem support included on each Windows serial Port
- OPC client request and automatic (internal OPC Server period and calendary) out calling
- RTU spontaneous calls management
- RTU Current States, Historical and Daily report values acquisition
- Immediate or grouped RTU Commands

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

2000  
NT

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



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Web: [www.sofrel.com](http://www.sofrel.com)



The CANopen OPC Server provides a standardized way to access the data of CANopen devices. It is implemented according to the latest OPC Data Access Specification, Version 2.0. The CANopen OPC Server is built as distributed architecture with one Server component and two Client components the CANopen Configuration Tool and the CANopen OPC Server Monitor. The Configuration Tool can automatically configure the CANopen network. The OPC Server Monitor provides several diagnostic views to the OPC Server and the CANopen Network.

The CANopen OPC Server supports all of Softing's CAN Interface Cards (ISA, PCard, PC104, PCI).

**Features Include:**

- High performance and efficient data exchange between OPC Clients and CANopen devices
- Automatic configuration by scanning the network
- Import of EDS files
- PDO and SDO data transfer
- Minimum capability device (CiA DS - 301)
- Node guarding with automatic reconnection of nodes after failed guarding
- Emergency objects
- Static and dynamic PDO mapping

**OPC Compatibility**

OPC Data Access 1.0a  
OPC Data Access 2.0

**Operating Systems Supported**

95  
98  
NT  
2000

**Manufacturers Supported**

CANOpen  
DeviceNet  
Profibus

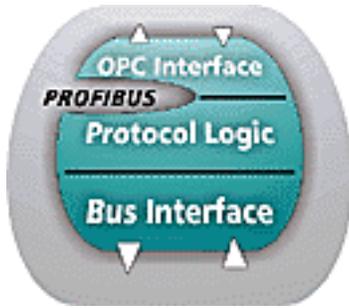
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



**Softing GmbH**

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Fax: (49) 89 456 46-399  
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Web: [www.softing.com/OPC](http://www.softing.com/OPC)



### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

95  
98  
2000  
NT

The OPC Server DP enables easy access to PROFIBUS DP devices. PROFIBUS networks can automatically be configured and diagnosed. This ensures extremely easy network administration and enables flexible access to individual components. Moreover, the solution saves time and reduces training expenses.

Softing's OPC Server DP records and registers up to 125 slave devices in the network and independently enters them into its name space. All configuration data is automatically selected due to the import of GSD files and additional PROFIBUS management services.

### Features Include:

- DP Master Class 1 and Class 2
- Services according to the standard EN 50 170, part 2
- Net data length up to 244 bytes per frame
- The OPC Server DP displays the bus topology and the network namespace in the bottom Explorer display typical under Windows. Thus, every user finds a familiar operator interface, and the training expenses are kept to a minimum.
- Supports all of Softing's PROFIBUS Interface Cards (ISA, PCard, PC104, PCI)



### Softing GmbH

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Web: [www.softing.com/OPC](http://www.softing.com/OPC)

**PHOTO  
UNAVAILABLE**

The Tamino XML Platform is a comprehensive set of products for building enterprise-scale XML-based applications. It consists of storage, development and integration components for XML data and applications.

**Features Include:**

- Tamino XML Database: the server component for fast storage and retrieval
- Tamino X-Node: the integration component for linking relational data sources
- Tamino X-Bridge: the integration component for XML documents from other applications
- Tamino X-Studio: the development component for XML-based applications
- Bolero: the component-based development environment for mission-critical e-business applications

### Operating Systems Supported

2000  
NT

### Manufacturers Supported

INTEL  
MOTOROLA  
HP  
IBM  
COMPAQ  
SUN  
SIEMENS

### Networks Supported

TCP/IP  
COM/DCOM

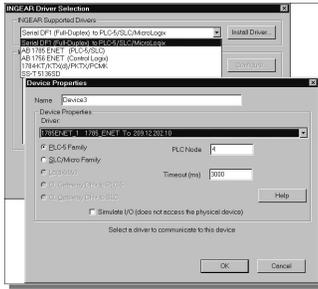


**Software AG Inc.**

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*\*See Additional Company Information*



Software Toolbox® provides you with over 50 different OPC Servers for all major automation hardware combined with extensive software and hardware support expertise. Our most popular server is the IN-GEAR AB OPC Server - a single OPC server for DH+, DH-485, DF1, and Ethernet to PLC5, SLC500, Micrologix, and Control Logix PLCs, including PCI bus card interfaces for DHPlus on Windows 2000 with no additional 3rd party licenses or software packages required to use our servers.

### Features Include:

- Windows 95/98/NT/2000 operating system support
- Windows CE versions available for many servers
- Tag browsing and scaling built in
- Supports dynamic tag creation and CSV tag import/export
- Built-in simulator application for testing and startup
- Free sample client and Visual Basic interface samples
- Supports dial-up modems through simple set of built in tags for setting dial-up number and triggering connection on most serial protocols
- Context-sensitive online help files
- Extensive support for a wide variety of data types as supported by the PLC or control device
- Expert Technical Support

Download free demos and technical datasheets for every OPC server we offer on our website at [www.softwaretoolbox.com](http://www.softwaretoolbox.com). All products available for secure online purchase at our website.

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

95  
98  
2000  
NT

### Manufacturers Supported

Allen Bradley, Analog Devices, Aromat, Bailey, Busware, Contrex, Cutler Hammer, Endress + Hauser, Fisher-Porter, GE Fanuc, Honeywell, IDEC, Intelligent Actuator, Kessler-Ellis, Mitsubishi, Modicon (ASCII, RTU, Master, Slave), Omron, Opto22, Optimization Optilogic, Partlow, PLC Direct/Koyo, Siemens and Siemens/TI, Sixnet, Square D, Telemecanique, Toshiba, Toyopuc, Yokogawa

### Networks Supported

Any serial or ethernet  
AB DH+, DH-485, and Ethernet  
GE Ethernet & EGD  
Modbus Plus  
Omron Sysmac Link  
PLC Direct Ethernet

Catalog Number	Unit Price	Availability
41233xxx- EX	US\$795	Immediately
41232300 - AB OPC Server	US\$649	Immediately
41232306 - Modbus Serial, MB+, Ethernet OPC Server	US\$649	Immediately
41232312 - Omron Serial + Ethernet OPC Server	US\$649	Immediately
Windows CE OPC Servers for all major CE CPUs	Contact Factory	Contact Factory



### Software Toolbox, Inc.

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Fax: (1) 704 849-6388  
e-mail: [tools@softwaretoolbox.com](mailto:tools@softwaretoolbox.com)  
Web: [www.softwaretoolbox.com](http://www.softwaretoolbox.com)



### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

95  
98  
NT

### Networks Supported

Allen-Bradley DH/DH+  
ControlNet  
DeviceNet  
Profibus  
Reliance AutoMax DCS  
Reliance AutoMate R-Net

### From the fieldbus technology leader

SST™ OPC Servers get you up and running quickly for all your fieldbus connectivity needs. As part of our scalable value-added solutions, these OPC Servers are available as part of the complete SST™ software package to complement our market-leading interface cards.

#### Features Include:

- Implements OPC browsing that simplifies the OPC server tag integration with the OPC client
- In process implementation for OPC Client applications requiring high-speed data exchange
- Out of process communication also supported
- Supports both asynchronous and synchronous interfaces
- Single and distributed applications (DCOM)

To order your free product catalog, simply fill out our online information request form at: [www.sstech.on.ca/literature/prodinfo.htm](http://www.sstech.on.ca/literature/prodinfo.htm)

If you are outside North America, please contact one of our international offices at: [www.sstech.on.ca/address.htm](http://www.sstech.on.ca/address.htm)

Catalog Number	Unit Price	Availability
OPC Servers	Consult Factory	Now



#### SST, part of Woodhead Connectivity

50 Northland Road  
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Canada

Phone: (1) 519 725-5136  
Fax: (1) 519 725-1515  
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Web: [www.sstech.on.ca](http://www.sstech.on.ca)

**PHOTO  
UNAVAILABLE**

Standard Automation offers significant development and programming resources for implementing industrial automation software systems and developing proprietary software solutions. The Company has developed a broad range of communication servers for HMI, SCADA, and Electronic Flow Measurement applications, Distributed Control Systems and industry standard I/O Devices. Each server is licensed on a per CPU basis with volume licensing discounts available. All servers include user's manuals and online help files.

**Features Include:**

- Polls each controller not responding to its requests at a slower rate until it establishes communications.
- Minimizes system message traffic by dynamically calculating and optimizing poll lists to read only, client-requested items/points.
- Status flags are supported for each point to track whether the quality of the point is good or bad.

Access our web site for Data Sheets, User Manuals, Demo Versions and other information about our servers and solutions.

**OPC Compatibility**

OPC Data Access 1.0a  
OPC Data Access 2.0

**Operating Systems Supported**

95  
98  
NT

**Manufacturers Supported**

APC Seriplex  
Bailey Controls  
Barton Scancom  
Fisher Rosemount  
Foxboro  
GE Fanuc Genius  
Honeywell  
Kimray  
Leeds & Northrup  
Measurex  
Moore Products  
Opto 22  
Westinghouse  
Yokogwa

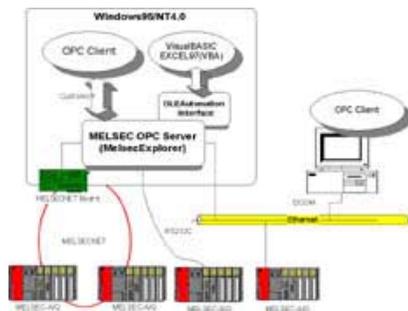
**Networks Supported**

DNP 3.0  
Enron Modbus/EFM  
Modbus Ethernet

Catalog Number	Unit Price	Availability
OPC Servers	Consult Factory	Now



**Standard Automation & Control LLC**  
2450 South Shore Blvd., Suite 100  
League City, TX 77573  
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Phone: (1) 281 334-3293  
Fax: (1) 281 334-4324  
e-mail: [standard@stdauto.com](mailto:standard@stdauto.com)  
Web: [www.stdauto.com](http://www.stdauto.com)



### MITSUBISHI MELSEC OPC Server

The MELSEC OPC Server is an application designed to operate with Microsoft Windows NT/95/98 as an OPC local/remote server. This OPC Server was designed for use with the Mitsubishi MELSEC-A series and MELSEC-Q series and supports OPCDA2.0 (OLE for Process Control Data Access).

#### Features Include:

- Simple to use and learn explorer style interface.
- Supports Ethernet, CCLink, MELSECNET, and Serial type connection.
- A Free-threading model server.
- Includes sample client programs in Visual Basic and Excel.
- Multiple client applications can access data from a single server for quick and easy access to networked MELSEC devices.
- Functions include Simulation Mode, scaling of data, and device monitoring.
- CSV file import and export of Server Tags for easy configuration on large projects.
- Supports Boolean, Word, Double Word, Real, and String type data access.

#### OPC Compatibility

OPC Data Access 2.0  
OPC Data Access 1.0a

#### Operating Systems Supported

95  
98  
NT

#### Manufacturers Supported

Mitsubishi  
MELSEC-A  
MELSEC-QnA  
MELSEC-Qn

#### Networks Supported

Ethernet  
CCLink  
MELSECNET2  
MELSECNET10  
RS232C  
MELSEC-A bus

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



#### Takebishi Electric Sales Corporation

29 Mameda-cho  
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Web: [www.faweb.takebishi.co.jp](http://www.faweb.takebishi.co.jp)



The T-BOX is a powerful Telemetry system for remote SCADA applications. Designed to integrate both the philosophies of the PLC and the flexibility of Personal Computers, T-BOX offers in a single piece of equipment:

- A multi-communication platform
- A powerful PLC
- An alarm teletransmitter
- An intelligent datalogger
- A protocol converter

### Features Include:

- Simultaneous communications using PSTN, GSM, radio frequency, Satellite, ISDN, TV-Cable, Leased-Lines, RS232, RS485,...
- Sophisticated mathematical functions including C routines
- Alarming on Pagers, GSM (SMS), SCADA...
- Timestamping through chronologies and sampling tables
- Up to 4.096 I/O's / CPU
- IEC1131-3 compatible

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

95  
98  
NT

### Manufacturers Supported

Cable-TV  
GSM  
ISDN  
ModBus  
PSTN  
RS-232  
RS-485

Catalog Number	Unit Price	Availability
CPU-300	Consult Factory	Now



### TECHNO TRADE

Chaussée de Bruxelles, 732A  
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e-mail: [info@technotrade.be](mailto:info@technotrade.be)  
Web: [www.tbox.fr](http://www.tbox.fr)



Trebing and Himstedt has been the successful exclusive reseller of all FactorySoft's OPC products in Germany. Trebing and Himstedt provides the local support to FactorySoft's OPC products, including Toolkits, servers, and client products. Numerous producers were helped with technical consulting and decision making.

As a widely-respected and leading OPC technology provider in Europe, Trebing and Himstedt provides the most popular OPC products with the best support. All Trebing and Himstedt products were OPC-enabled using FactorySoft's OPC Toolkits.

The Modbus OPC server is a complete server for the Modbus ASCII/RTU protocol. It meets the full requirements of the OPC Data Access Specification and offers helpful user interface features such as drag & drop configuration and built-in data monitoring.

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

NT

### Networks Supported

MODBUS ASCII  
MODBUS RTU

### Features Include:

- Multithreaded design assigns separate processing thread to each data group for maximum performance.
- Import and export of tag database to CSV files for fast development or bulk editing.
- Redundancy feature allows alternate connection path to be defined for each Modbus device.
- Select full scan or manual operation for individual tags allowing override of field signals during testing or in the event of failure. Built-in simulation is also included.
- Supports COM, DCOM and OLE Automation versions of the OPC interface.



### Trebing & Himstedt Prozessautomation GmbH & Co. KG

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Web: [www.t-h.de](http://www.t-h.de)

*\*See Additional Company Information*



The OPC PROFIBUS server makes it easy to interface to PROFIBUS networks. The integrated diagnostics and configuration tool simplifies fault finding and commissioning of the OPC Server.

The OPC configuration uses a separate database table (MDB file) for each protocol. You can create all required OPC tags and data types from the raw PROFIBUS data.

DCOM allows one or more Windows applications to access the server across the network. An installation option makes it easy to configure DCOM for remote applications running on client PCs. Our continuous testing program guarantees compatibility with leading HMI applications such as RSView, WinCC, BridgeView, InTouch, etc.

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

95  
98  
NT

### Features Include:

- PROFIBUS DP MKL1 & MKL2, FMS.
- All supported PROFIBUS protocols can operate in parallel.
- Support for hierarchical and flat browsing.
- An installation option makes it easy to configure DCOM on client PC's.
- The ODBC interface simplifies configuration of the OPC database.
- Supplied with examples of Automation Interface for VB, VBA, Excel, Access.
- Multi-threaded design for high performance.
- Supplied with PROFIBUS configuration tool.
- Excellent price/performance ratio.

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory

### Networks Supported

PROFIBUS DP MKL1  
PROFIBUS DP MKL2  
PROFIBUS FMS

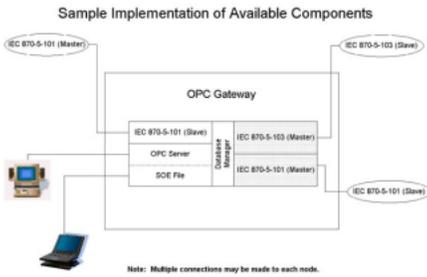


### Trebing & Himstedt Prozessautomation GmbH & Co. KG

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Web: [www.t-h.de](http://www.t-h.de)

*\*See Additional Company Information*



The IEC 60870-5 OPC Communication Protocol Gateway collects data from IEC 60870-5 Slave devices and then supplies this data to other control systems through an OPC Server and/or IEC 60870-5 Slave component.

### COMMUNICATION PROTOCOL FEATURES SUPPORTED

The OPC Gateway Conforms to the following protocol specifications:

- IEC 60870-5-101 - Basic telecontrol tasks (Communication with RTUs)
- IEC 60870-5-103 - Informative interface of protection equipment
- IEC 60870-5-104 - Network access for IEC 60870-5-101 (coming soon)
- Report by Exception (RBE) is supported (transmitting only the changes in data values), thereby saving communication channel bandwidth
- Analog and binary outputs support either direct execute or select before execute control function
- Automatic time synchronization with remote devices

### TYPICAL IMPLEMENTATIONS (non-inclusive)

- OPC server for IEC 60870-5-101 and IEC 60870-5-103
- Translate IEC 60870-5-103 to IEC 60870-5-101
- Translate between IEC 60870-5-104 and IEC 60870-5-101

### Features Include:

- Supports selective logging of event data into a time-stamped Sequence Of Events (SOE) log file.
- The Communication Protocol Analyzer Window provides interpretation of the IEC data transmitted and received. A scroll back buffer with the ability to cut and paste to the Windows clipboard allows examination of previous exchanges. The user may filter the data shown by protocol layer, communication port, or device address.
- Communicates with multiple OPC clients and coexists with other OPC servers.
- Allows translation between data types and control methods.

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Operating Systems Supported

95  
98  
2000  
NT

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory



### Triangle MicroWorks, Inc.

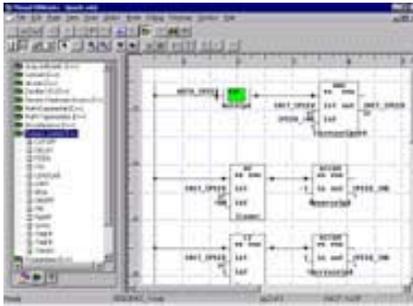
2840 Plaza Place, Suite 205  
Raleigh, NC 27612  
USA

Phone: (1) 919 870-6615

Fax: (1) 919 870-6692

e-mail: [Sales@TriangleMicroWorks.com](mailto:Sales@TriangleMicroWorks.com)

Web: [www.TriangleMicroWorks.com](http://www.TriangleMicroWorks.com)



IOWorks® is a real-time open architecture PC-based control system that allows you to design, create, test and run application programs for controlling your process – faster than ever before. IOWorks® provides a robust OPC Server that delivers control and data acquisition information from an IOWorks® target controller to any OPC-compliant client application on either a stand-alone or networked PC. Included as part of the IOWorks base package, the server provides factory floor data to HMI and SCADA applications such as Adroit, AIMAX, Intellution, Wonderware, and others as well as to Microsoft Access®, Excel, C/C++ or Visual Basic® applications. The award-winning IOWorks® product line also includes the IOWorks® Instant OPC product for creating your own OPC Client applications with Visual Basic and Visual C/C++.

### OPC Compatibility

OPC Data Access 1.0a

### Operating Systems Supported

NT

### Manufacturers Supported

Allen-Bradley  
 General Electric  
 Opto 22  
 Modicon  
 MTL  
 PLC Direct

### Networks Supported

DeviceNet  
 Ethernet  
 Interbus S  
 Modbus  
 Modbus Plus  
 Optomux  
 Profibus  
 Remote I/O  
 RS232

IOWorks Manager and Soft Logic Link are trademarks of VMIC. IOWorks is a registered trademark of VMIC. Microsoft Access and Visual Basic are registered trademarks of Microsoft Corporation.

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



### VMIC

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e-mail: [info@vmic.com](mailto:info@vmic.com)

Web:

[www.vmic.com/products/chap18/hw\\_sw\\_menu.html](http://www.vmic.com/products/chap18/hw_sw_menu.html)



The Advanced-PS (APS5000) system is Yamatake's latest open automation platform. The plant automation system ensures progressive evolution from legacy control systems, protects automation investments, delivers added power and enhances the security and flexibility of manufacturing and other industrial operations. Advanced-PS supports process simulation and advanced control technologies from selected suppliers, and enables the sharing of valuable plant information across the whole corporation.

**Features Include:**

- Highly reliable system, having duplex structures at all stages; flexible upgrades via optional function blocks
- Multi-layered control hierarchy optimizes accessibility and reliability, ensuring an effective and economical method for every control action
- Common history data warehouse assures customized reporting by individual operating units in the organization
- Information management allows merging of process data with other fields of finance, inventory management, shipment and infotech departments

**OPC Compatibility**

OPC Data Access 1.0a  
OPC Data Access 2.0

**Operating Systems Supported**

NT

**Manufacturers Supported**

DDE  
Yamatake

**Networks Supported**

Ethernet  
Foundation Fieldbus

Catalog Number	Unit Price	Availability
CA2-APS100	Consult Factory	Now



**Yamatake Industrial Systems Co., Ltd.**

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Yokohama, Kanagawa 211-0031  
Japan

Phone: (81) 45-461-8800; (81) 3-3486-2216

Fax: (81) 45-461-8761

e-mail: [kikaku@ibd.yamatake.co.jp](mailto:kikaku@ibd.yamatake.co.jp)

Web:

[www.yamatake.com.jp/html/howdo/produ/indau/indau\\_f.htm](http://www.yamatake.com.jp/html/howdo/produ/indau/indau_f.htm)



Yokogawa's CENTUM-CS Integrated Production Control Systems utilize reliable, field proven hardware with unparalleled engineering efficiency, open system versatility, and operational simplicity to optimally control any process application. The CENTUM-CS family controls thousands of pharmaceutical, oil & gas refining, chemical, batch, and boiler applications worldwide. CS1000 and CS3000 engineering and operations run on a PC using Microsoft Windows NT. Start-up, training, and development times are greatly reduced through intuitive configurations and sophisticated function blocks.

**Features Include:**

- Built in historian that records user logins, design changes, unusual operations, system status, and alarm conditions.
- Electronic instruction manuals accessible from pull down menus on any screen.
- Design and testing without controller hardware.
- Cut, copy, paste, import and export configurations, graphics, bitmaps, and ActiveX controls easily with Windows NT.
- Redundant processors, IEEE 802.4 communication buses, I/O, power supplies, and bus converters.

To have additional product information, brochures, or demonstration software mailed to you, simply fill out our online information request form at: [www.yca.com](http://www.yca.com)

**OPC Compatibility**

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0

**Operating Systems Supported**

NT

**Manufacturers Supported**

DDE  
 Hart  
 Yokogawa

**Networks Supported**

Ethernet  
 Foundation Fieldbus  
 Modbus

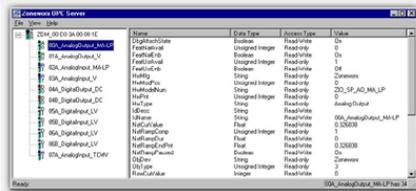
Catalog Number	Unit Price	Availability
Centum-CS	Consult Factory	Now
Centum-CS 1000	Consult Factory	Now
Centum-CS 3000	Consult Factory	Now



**Yokogawa Corporation of America**

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 Web: [www.yokogawa-ia.com](http://www.yokogawa-ia.com)



Zoneworx OPC Server allows immediate communication between Zoneworx Pathways data collection and monitoring products and any OPC client. The Zoneworx OPC Server automatically generates and updates OPC tags, monitors values, and allows the user to browse OPC tags by device name, point name, and data type. The automatic tag generation is especially useful for plug-and-play ease of use with Pathways data collection products.

**Features Include:**

- Automatically generated tag names from ZDMs reduces configuration time to zero!
- Plug-and-play device discovery makes information gathering a breeze.
- User friendly tree view navigation reduces time in locating information.
- Network-wide, OPC tag browsing eliminates the need for costly and time consuming programming.
- Live monitoring of values simplifies diagnostics.
- Dynamic response to removal and insertion of ZIO allows devices to be added to the network without system restarts!

**OPC Compatibility**

OPC Data Access 1.0a  
OPC Data Access 2.0

**Operating Systems Supported**

NT

Catalog Number	Unit Price	Availability
ZOPC	Consult Zoneworx	April 2000



**Zoneworx, Inc.**

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Phone: (1) 877 506-9409; (1) 909 296-1226  
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[sales@zoneworx.com](mailto:sales@zoneworx.com)  
Web: [www.zoneworx.com](http://www.zoneworx.com)

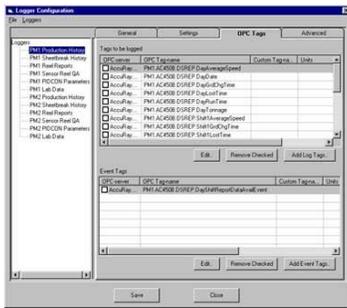


ABB OPC Knowledge Provider is an integrated data logging system designed and developed specifically to OPC standards. It is capable of acquiring data from any OPC compliant data source and will support multiple OLE-DB data stores such as SQL Server, Oracle, MS Access (97 & 2000), File etc.

While the OPC Knowledge Provider can be utilized as a standalone product it was designed to also act as a data server and provides an infrastructure for custom process monitor and reporting application development. It enables ABB or any other party to quickly develop cost-effective custom solutions and is Intranet/Internet enabled.

The OPC Knowledge Provider is the enabler for ABB's OPC Knowledge Solutions and has been utilised to provide custom applications for the Pulp & Paper Industry. Examples of these are Production Monitor and Reporting, Sheetbreak Monitor and Reporting, Sensor Quality Analysis Monitor and Reporting and AccuRay™ QCS Report Historian.

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Features Include:

- The integration of diverse systems using a single OPC window.
- The storage of process data for:
  - production, down-time, material usage, quality analysis etc. graphic/text reporting
  - report history; for example, AccuRay™ QCS Reel, Grade and Day Shift Reports.
  - tracking parameter changes that effect production and quality; e.g. control tuning parameters, setpoint changes, etc.
  - identification of process inconsistencies
- ISO quality system requirements
- Automatic generation of reports at specified intervals, end of reel, grade, shift, day or specified time period.
- Data analysis from reel to reel, grade to grade, shift to shift, day to day, month to month to identify anomalies and process improvement strategies and goals.
- Productivity increases by improving process knowledge across the plant.
- The provision of process data to 3rd party reporting and analysis tools.

Catalog Number	Unit Price	Availability
OPC-KPR	Consult Factory	May 2000

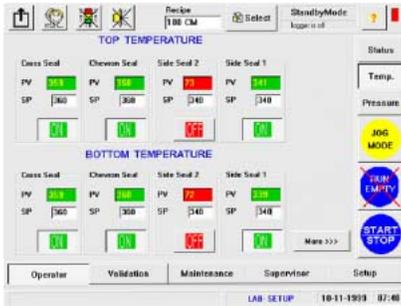


### ABB Industrial Systems Ltd.

Finnabair Industrial Park  
Dundalk, Co. Louth  
Ireland

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Fax: (353) 42 85124  
e-mail: [automationinfo@us.abb.com](mailto:automationinfo@us.abb.com)  
Web: [www.abb.com/automation](http://www.abb.com/automation)

*\*See Additional Company Information*



### Type of Product

Developer Tools or Services

Dynamic Software is a software development and system integration firm. We have been developing software systems and software components for over 16 years.

To date, we have developed 4 OPC Servers for a variety of networks and manufacturers. Also, we have developed numerous operator interfaces, such as HMI's and OPC Clients, using an array of languages including Visual Basic, Visual C++, Delphi, and Borland C++ Builder.

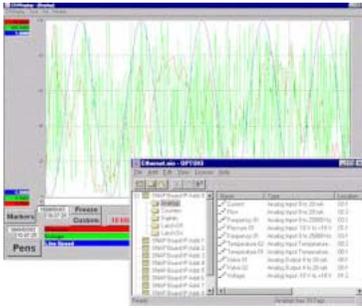
#### Features Include:

- Developed for the following platforms: Windows NT, 2000, Embedded NT, 95/98, and CE.
- Experience developing Serial Communication Interfaces.
- Experience developing Ethernet TCP/IP Interfaces.
- Experience developing interfaces to other machine control devices such as digital and analog I/O cards.
- Experience integrating factory floor systems to the front office management systems.



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 Fax: (1) 920 432-4455  
 e-mail: [dsiinfo@dsigb.com](mailto:dsiinfo@dsigb.com)  
 Web: [www.dsigb.com](http://www.dsigb.com)



Quick development of OPC clients and servers, providing OPC Data Access to custom software solutions. Server applications are multi-threaded for high performance, developed with Microsoft Visual C++, and services data to all OPC clients on local and remote systems. OPC clients can be developed with Visual C++ or Visual Basic.

**Features Include:**

- Custom alarming, graphics, and trending examples available.
- Control systems designed for CE and NT Device Drivers.
- No runtime license fees.
- Source code provided.
- Extensive library of RS-232, RS-422, Ethernet TCP/IP, and shared memory interfaces.
- CSV file import/export feature for easy setup in third party spreadsheet or database.
- Remote tag browsing.
- Device simulation for off-line data testing.
- Easy installation, self-registering.
- OLE-DB connections for database systems.
- Training on OPC development also available.

Online information available at: [www.eldridgeeng.com/serv03.htm](http://www.eldridgeeng.com/serv03.htm)

**Type of Product**

Developer Tools or Services

**OPC Compatibility**

OPC Data Access 2.0

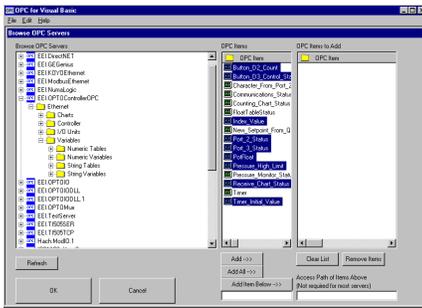
Catalog Number	Unit Price	Availability
Consult Factory	Consult Factory	Now



**Eldridge Engineering, Inc.**

708 West 20th Avenue  
 Spokane, WA 99203  
 USA

Phone: (1) 509 838-7517  
 Fax: (1) 509 838-7037  
 e-mail: [KEldridge@msn.com](mailto:KEldridge@msn.com)  
 Web: [www.eldridgeeng.com](http://www.eldridgeeng.com)



The OPC for Visual Basic application is an OLE for Process Control client developed by Eldridge Engineering that demonstrates OPC tag browsing and asynchronous communications with event driven processing. This application demonstrates the speed and performance of OPC using Visual Basic as the client using the EEIOPCVB.DLL automation interface, which is identical in feature to the OPC Automation 2.0 interface. By using event driven asynchronous connections in Visual Basic it is easy to obtain over several thousand values each second with extremely low CPU usage. The source code for this application can be purchased from Eldridge Engineering. The application provides an open development solution to OPC with tag browsing and high-speed communications with low overhead. The source code example simplifies the connection to the OPC Automation Interface 2.0 using Visual Basic.

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Features Include:

- Tag browsing of OPC servers.
- Supports multiple OPC servers.
- Developed with high-speed event driven asynchronous communications.
- Several thousand values per second with low overhead.
- Compatible with Microsoft Windows 95 with DCOM, Windows 98, Windows NT 4.0, and Windows 2000.
- Source code of entire Visual Basic application provided with purchase.
- No runtime fees.
- No limit on the number of installations.

Online information and download: [www.opcsystems.com/OPCforVB.htm](http://www.opcsystems.com/OPCforVB.htm)

Catalog Number	Unit Price	Availability
OPCforVB	Consult Factory	Now



### Eldridge Engineering, Inc.

708 West 20th Avenue  
Spokane, WA 99203  
USA

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Fax: (1) 509 838-7037  
e-mail: [ken@opcsystems.com](mailto:ken@opcsystems.com)  
Web: [www.opcsystems.com](http://www.opcsystems.com)

**PHOTO  
UNAVAILABLE**

### Full Source Code Showing How to Build OPC Data Access Client

The FactorySoft OPC Client Toolkit for Data Access provides comprehensive information on implementing the OPC client interface. The toolkit application is MFC-based, but the OPC interface is not tied to MFC. Instead, C++ wrapper classes are provided that help manage interface pointers in a safe way. This Toolkit is the ideal way to add the OPC interface to new or existing software applications.

#### Features Include:

- Source code for an OPC Data Access client application that demonstrates use of the COM interfaces.
- Example Modbus server for use in testing your OPC client application.
- Documentation describing how to create a client interface including helpful tips ranging from multithreading issues to object lifetimes.

#### Type of Product

Developer Tools or Services

#### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

Catalog Number	Unit Price	Availability
OPC-DAClientKit	Consult Factory	Now



a subsidiary of 

#### FactorySoft, Inc.

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Fax: (1) 508 337-6686  
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Web: [www.factorysoft.com](http://www.factorysoft.com)

**PHOTO  
UNAVAILABLE**

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Fast Development Without the Need to Learn COM

The FactorySoft OPC Rapid Development Toolkit for Data Access is the only toolkit available that packages the complete OPC interface into a single DLL -- eliminating the need for developers to learn the complexities of the OPC Specification or the Microsoft COM or DCOM technologies it is built on. Simply write the communication protocol routines for the I/O device and the FactorySoft Rapid OPC DLL does the rest. The FactorySoft OPC Rapid Development Toolkit is ideal for System Integrators or OEMs who need fast, reliable development of OPC servers. Working servers have been developed using the Toolkit in less than two days.

### Features Include:

- Free threading model on both Windows NT and Windows 95/98 platforms.
- Support for self-registration, browsing, data quality reporting, and time stamps.
- Configure as a stand-alone server or an NT service.
- Sample application source code and comprehensive documentation illustrate how to use the OPC DLL.
- Field-proven on a wide variety of servers and platforms.

Catalog Number	Unit Price	Availability
OPC-DARapidKit	Consult Factory	Now

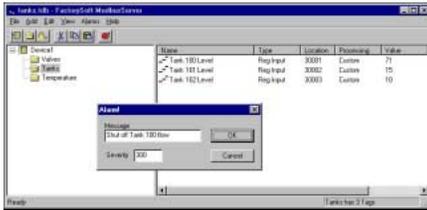


a subsidiary of 

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Web: [www.factorysoft.com](http://www.factorysoft.com)



### Type of Product

Developer Tools or Services

### OPC Compatibility

Alarms and Events 1.0

### Full Source Code Without Royalty or Usage Fees

The FactorySoft OPC Alarm & Event Server Toolkit is the fastest and easiest way to add support for the newest OPC interface to your products. The A&E interface is completely independent of Data Access and this Toolkit can be used in conjunction with FactorySoft's other OPC toolkits, or with your own code. You can use the included sample programs and configuration files as test cases for debugging your servers. The interface for the Modbus OPC server example is implemented using Microsoft's ActiveX Template Library, which is the best way to do COM programming. In addition, FactorySoft has organized the toolkit classes so that your interface and application code are separate from the OPC COM interface code. This means that OPC source updates are simply plugged into their own base class while your code remains untouched, resulting in minimal engineering effort for integrating OPC Specification updates.

### Features Include:

- Complete source code for full featured 32-bit multi-threaded servers. The advanced multi-threaded design takes advantage of Windows NT 4.0 features such as the free threading model for improved performance.
- Example Modbus server, with source, showing how a complete OPC alarm & events server is constructed.
- Client program that exercises the OPC Alarm & Event COM interface for testing and debugging your server.
- Can be used with any OPC Data Access interface implementation.
- Documentation that describes how to create a server application.

Catalog Number	Unit Price	Availability
OPC-AEServerKIT	Consult Factory	Now

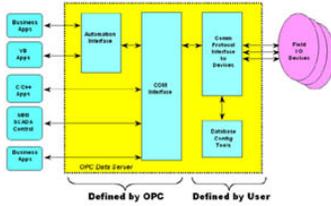


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Web: [www.factorysoft.com](http://www.factorysoft.com)

### FactorySoft OPC Server Architecture



### Full Source Code Without Royalty or Usage Fees

The FactorySoft OPC Server Toolkit for Data Access is a full-source toolkit that provides information and examples for designing an OPC Data Access server with Explorer-style user interface. To make development and maintenance as easy as possible, FactorySoft has organized the toolkit classes so that your interface and application code are separate from the OPC COM interface code. OPC source updates are simply plugged into their own base class while your protocol code remains untouched, resulting in minimal engineering effort for integrating OPC Specification updates. This toolkit has been the choice of leading HMI, SCADA, and hardware vendors worldwide.

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Features Include:

- Complete source code for full featured 32-bit multithreaded servers. Advanced design takes advantage of Windows NT 4.0 features such as the free threading model for improved performance.
- Information and source code included for building in-process servers for Windows NT and CE.
- Source code for the FactorySoft Rapid Server Development Toolkit DLL, including a sample application that demonstrates the capabilities of the DLL.
- Source code for DLL that provides the Automation interface layer to OPC COM interface, including a Visual Basic example that uses the updated OPC Automation interface.
- Example Modbus server showing how a complete OPC server is constructed.
- Client program that exercises the OPC COM interface for testing and debugging your server.
- Documentation that describes how to create a server application, including helpful tips ranging from multithreading issues to object lifetimes.
- Build as many servers as you want with no license fees or royalty payments.

Catalog Number	Unit Price	Availability
OPC-DAServerKit	Consult factory	Now



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Web: [www.factorysoft.com](http://www.factorysoft.com)



### Type of Product

Developer Tools or Services

### Course 7040

This course is designed for process control engineers and programmers who need to develop Visual Basic applications that will manipulate process control data via an OPC server connection.

### Overview

This 3-day course is for process control engineers that need to retrieve or change process data through an OPC (OLE for Process Control) server. The course will discuss the underlying basics of using COM and OPC as well as address the techniques that are necessary for the student to write a Visual Basic client application that will access an OPC compliant server for the data reads and writes.

### Prerequisites

Students must have had programming experience using Microsoft Visual Basic version 4.0 or later. Although a short review of the basics of Visual Basic will be presented, Visual Basic will not be taught in this class.

### Topics:

- Overview of COM (Component Object Model)
- Overview of OPC
- Use of the COM, DCOM and OPC Specifications
- OPC Objects and Interfaces
- Visual Basic Review
- Visual Basic Application Development
- DCOM Setup and Security

Catalog Number	Unit Price	Availability
Course 7040	\$1,495	Now



### Fisher-Rosemount Systems

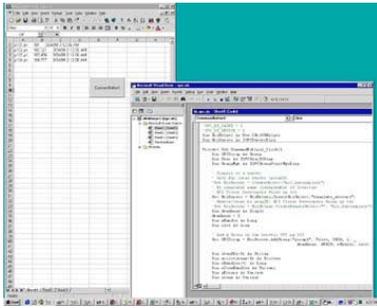
8301 Cameron Road  
Austin, TX 78754  
USA

Phone: (1) 512 835-2190; (1) 800 654-7768

Fax: (1) 512 832-3443

Web: [www.frco.com/education](http://www.frco.com/education)

*\*See Additional Company Information*



### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

This toolkit provides the nuts and bolts for developing OPC applications. All OPC supported programming languages are supported by this toolkit; C, C++, VB, VBA, etc. Application developers can test their client applications off-line using the simulated server provided with the toolkit. In addition, this toolkit contains the Honeywell Communication Interface (HCI) - a standard communication interface encapsulating OPC Data Access 1.0a while providing additional, optional, value-added interfaces for enhanced security, ease of use, and robustness to client applications. Developers have the choice to use only OPC or to take advantage of the HCI interfaces, as well. Both OPC and HCI applications are supported by the TPS system.

#### Features Include:

- Sample client projects provide realistic examples and starting points for application development.
- Client Developer Guidelines deliver the insight to assist you with developing the most performant, efficient applications using DCOM and OPC.
- Security - The toolkit provides an optional interface to enable client applications to specify the notification time in the event that an OPC Server is lost.
- Ease-of-use - The toolkit provides optional interfaces to help developers use OPC. For developers new to OPC, this greatly simplifies application development.
- Robustness - The toolkits also provide a mechanism for client applications to take advantage of the inherent features of the TPN System. Real-time support is available for pre-selected blocks of time, based on the anticipated needs of the application developer. Support contracts also grant the user access to web-based hints and tools for speeding application development.

To learn more about the HCI Client Developer and the TotalPlant Solution system contact your Honeywell sales representative. In the US call: (1) 800 288-7491 or visit our Web site at: [www.iac.honeywell.com](http://www.iac.honeywell.com)

Catalog Number	Unit Price	Availability
TP-HCD110	Consult Factory	Now

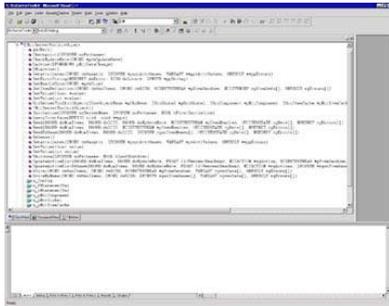


#### Honeywell Inc.

Industrial Automation and Control  
16404 N. Black Canyon Highway  
Phoenix, AZ 85053  
USA

Phone: (1) 602 313-5586

Web: [www.iac.honeywell.com](http://www.iac.honeywell.com)



This is not just another toolkit! This is as close as you can get to having your server application written for you. With this toolkit, developers need only concentrate on the reads and writes to their specific device and any required internal ID translation. The toolkit provides an implementation of the common functions of every server and a global data cache in an easy to use format. No customization is required to use these components. In addition, a server application developed using this toolkit becomes a member of the TPS System and can be started, stopped, and monitored by the TPS System.

### Features Include:

- This toolkit comes in two convenient packages, one for large server applications and one for small server applications
- This toolkit can be used to write both device server and data server applications.
- Provides application developers a mechanism to access functions specific to their device
- Server template functions as the backbone of the server and provides the structure from which to begin development
- Server Developer Guidelines deliver the insight to assist you with developing the most performant, efficient applications using DCOM and OPC

To learn more about the HCI Server Developer and the TotalPlant Solution system contact your Honeywell sales representative. In the US call: (1) 800 288-7491 or visit our Web site at: [www.iac.honeywell.com](http://www.iac.honeywell.com)

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

Catalog Number	Unit Price	Availability
TP-HSD110	Consult Factory	Now
TP-HSP110	Consult Factory	Now



### Honeywell Inc.

Industrial Automation and Control  
16404 N. Black Canyon Highway  
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USA

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Web: [www.iac.honeywell.com](http://www.iac.honeywell.com)



### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

The inside track for the best of the best. This program offers training on OPC and HCI implementation for both VB and C++ based programmers. In addition, experienced OPC application developers provide real-time support, during your development life cycle. Students/users of this program must have existing knowledge of one of the OPC supported programming languages and of Windows NT. This program is supplemented by the use of the HCI Client or Server Developer Toolkits and Guidelines. This is a great way to jump-start your application development.

#### Topics of the training include:

- Overview of COM and DCOM
- Overview of OPC
- Details of how to implement OPC
- Details of how to implement HCI
- How best to use the HCI Client and Server Developer Toolkits
- How best to implement DCOM security

Real-time support is available for pre-selected blocks of time, based on the anticipated needs of the application developer. Support contracts also grant the user access to web-based hints and tools for speeding application development.

To learn more about the OPC/HCI application development training and support and the TotalPlant Solution system contact your Honeywell sales representative. In the US call: (1) 800 288-7491 or visit our Web site at: [www.iac.honeywell.com](http://www.iac.honeywell.com)

Catalog Number	Unit Price	Availability
N/A	Consult Factory	4Q '98



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**ActiveX Toolbox™** is a collection of OPC enabled ActiveX controls and COM components that can be used with any ActiveX container. The Toolbox includes over ten ActiveX Controls. Create applications rapidly and professionally with high performance ActiveX controls that are true OPC clients. Connect OPC ActiveX Controls to any OPC Server. The ICONICS ActiveX Controls support hundreds of configurable properties and are extremely flexible, intuitive and easy to use.

Embed real-time OPC enabled ActiveX controls into the most popular ActiveX Containers including; Visual Basic 5.0 and 6.0, WEB based HTML pages, MS Word, MS Excel, MS PowerPoint and others.

**ActiveX Toolbox** contains several popular OPC ActiveXs including; Sliders, Vertical and Horizontal Meters, Circular Gauges, Push Buttons, Toggle Switches and virtually any type of digital switch.

Save months of work with the most powerful, flexible and useful OPC enabled ActiveX Controls. Why use garage shop controls when you can have the best!

**Features Include:**

- Designed for Windows NT, 95/98, Millennium and 2000
- Industry's First OPC ActiveX Controls
- Includes Visual Basic and HTML Examples
- Augment your ICONICS WebHMI solution
- New Periodic ActiveX to trigger Visual Basic Scripts
- Includes: Gauge, Switch, Sliders, Value and other Controls
- Multi-threading, Multi-processor Design
- Integrated OPC Tag Browser
- Fast Dynamic Animation
- Multi-resolution and Scalable ActiveX Controls

**Type of Product**

Developer Tools or Services

**OPC Compatibility**

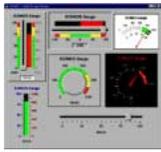
OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0  
 Historical Data Access 1.0



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ICONICS **ActiveX ToolWorX™** is the industry's first and only OPC-based ActiveX toolkit. Create your own custom, high-performance ActiveX controls that are true OPC clients. Connect your OPC ActiveX Controls to any OPC Server.

Embed real-time OPC enabled ActiveX controls into most popular ActiveX Containers including; Visual Basic 5.0 and 6.0, WEB based HTML pages, MS Word, MS Excel, MS PowerPoint and many other third-party ActiveX containers.

Create libraries of reusable components based on popular Microsoft ActiveX technology. Using standard OPC Plug-and-Play, connect them to factory floor devices such as PLC's, industrial devices, and much more.

**ActiveX ToolWorX** (patent pending) comes with our award winning, OPC compliant GraphWorX32 HMI development and test client software to be used as an ActiveX testing environment.

**Features Include:**

- Runs on Windows 95/98/NT, Millennium and 2000
- Industry's Only OPC-Based ActiveX ToolKit
- Embed in any ActiveX Container
- Includes Powerful GraphWorX32 Container
- Create Realistic Looking ActiveX Controls
- Includes ActiveX Gauge Source Code
- Native User Interface Control
- Fast Dynamic Animation
- Multi-threading Design
- Includes OPC Tag Browser

**Type of Product**

Developer Tools or Services

**OPC Compatibility**

OPC Data Access 1.0a  
OPC Data Access 2.0

Catalog Number	Unit Price	Availability
ACTIVE TOOLWX	Consult Factory	Now



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**CE Toolkit** is ideal for OEM developers, corporate engineering, IT departments, system integrators and technical Universities. This Jump-Start Kit comes complete with the following: one CE ToolWorX (CETOOLWX) for rapid development, one Pocket GENESIS runtime (GENCE) and one Pocket Modbus OPC Server (OPCMODBUSCE).

Pocket GENESIS provides three applications for running HMI/SCADA. The first of the scalable applications is Pocket GraphWorX for performing advanced HMI functions. Pocket AlarmWorX provides traditional alarming and acknowledgment capabilities using the OPC Data Access and OPC Alarm and Events plug-and-play standards. Also included is Pocket TrendWorX, which replays real-time and historical data in a number of trend chart display formats. Lightweight historical data query directly to and from native Microsoft SQL 7.0, SQL 2000 and Microsoft Access databases integrates CE devices with the enterprise.

### Type of Product

Developer Tools or Services  
 OPC Server  
 OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0  
 Historical Data Access 1.0

### Features Include:

- Development Software Runs on Windows 95/98 /NT, Millennium and 2000
- HMI/SCADA Runtime Applications run on Windows CE
- Full-Featured Development Software for Workstation also provides simulation
- Full-Featured Pocket GraphWorX™
- Full-Featured Pocket TrendWorX™
- Full-Featured Pocket AlarmWorX™
- 32 bit Multi-threading, Multi-processor Design
- Supports ARM, SH3/SH4, MIPS and Intel



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**CE ToolWorX** is a patent pending rapid development toolkit for creating scalable and portable Windows CE based visualization applications for flat panel CE computers, mobile HPCs, embedded controllers and instrumentation. Create and test lightweight OPC client applications on Windows NT, 95/98, Millennium or 2000 then simply download them to runtime versions of Pocket GENESIS (not included with CE ToolWorX) or one of its components e.g. Pocket GraphWorX, Pocket TrendWorX, etc.

Easy menu selection allows the developer to specify the resolution of the target CE device and with a single "click" of the mouse, enter run-time simulation mode to view the graphic, trends and alarms as they would appear on the actual screen of the CE device.

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Features Include:

- Runs on Windows 95/98/NT, Millennium and 2000
- Supports complete Pocket GENESIS family
- WYSIWYG Simulation Environment
- Standard and Custom CE Target Resolutions Supported
- Auto-download to CE device

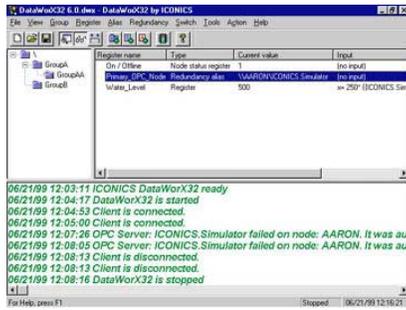
Catalog Number	Unit Price	Availability
CE toolworx	Consult Factory	Now



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### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

**DataWorX™32** provides patent pending enabling technology, which includes: OPC Server to OPC Server Data Bridging, OPC Aggregation and mission critical OPC-Based Redundancy.

Unique Data Bridging technology allows the connectivity of any OPC Server to any other OPC Server, providing Plug and Play interoperability. For example, connect an AB OPC Server to a Siemens OPC Server and share data easily and seamlessly. Data can also be manipulated through expressions and calculations.

**DataWorX32** is the only product that allows multi-level OPC data redundancy. Connect any number of OPC Servers to an OPC HMI or any OPC Client. Let **DataWorX32** do the redundant automatic switch over to your backup OPC Servers.

**DataWorX32** is fully compliant with OPC 1.0a and OPC 2.0. Plug and play with any OPC compatible HMI, SCADA and Control application using the OPC custom interface. Create Visual Basic or VBA based applications that work with built in OPC 2.0 OLE Automation.

**DataWorX32** is based on COM/DCOM and OPC over TCP technology and supports local, Intranet or Internet operation.

**DataWorX32** comes complete with OPC Configuration Explorer for rapid configuration, integrated real-time monitoring of OPC tags and a powerful OPC Universal Tag Browser for Internet and Intranet tag viewing.

#### Features Include:

- Runs on Windows NT, 95/98, Millennium and 2000
- Multilevel OPC Data Redundancy
- OPC Server to OPC Server Data Bridge
- OPC Data Aggregation
- Statistics and Performance Analyzer
- Built in Expressions and Calculations
- Runs as an NT Service on NT and Win 2000
- Integrated Real-time Data Monitor
- On-line configuration of OPC tags
- 32 bit Multi-threading, Multi-processor Design

Catalog Number	Unit Price	Availability
DWX32	Consult Factory	Now



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### Type of Product

Developer Tools or Services  
OPC Client

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0  
Alarms and Events 1.0

**Dr. DCOM** is a potent networking utility to help Genesis32 users with DCOM configurations. Available as a standard part of GENESIS32 now, **Dr. DCOM** is also available as a stand-alone component for rapid network setup and configuration. Using a familiar Explorer-like user interface, you can browse for OPC Servers and eliminate difficult DCOM configurations. Development and system commissioning times are dramatically reduced with **Dr. DCOM** at your side.

**Dr. DCOM** is ideal for testing DCOM and network interfaces as well as configuring Data Access, Alarm/Events and HDA COM Objects or Servers. With a single click **Dr. DCOM** automatically configures your entire network. All the configuration details are at your fingertips, clearly presented in property panels. **Dr. DCOM** features a powerful auto-configuration wizard, trouble shooting test wizard, helpful status window display messages and much more.

**Dr. DCOM** provides support for NT logger and AlarmWorX32 logger and runs on Windows 95, Windows 98, Windows Millennium, Windows CE and Windows 2000.

#### Features Include:

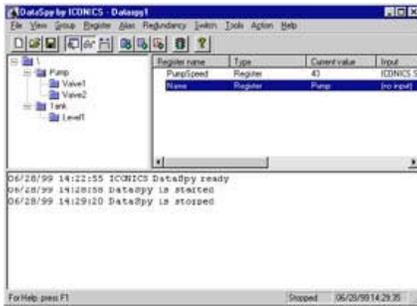
- Runs on Windows 95, 98, NT, Millennium, 2000 and CE
- One Click Auto-DCOM Configuration
- Explorer-like User interface
- Available as Stand-alone component



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The **OPC DataSpy** is a powerful OPC Data Access and Alarm/Events analysis application that allows the testing and monitoring of OPC information for data, alarms, data quality, performance and compliance with the OPC Foundation Standards.

The **DataSpy** is ideal for testing OPC Data Access or Alarm Servers for OPC minimum and optional compliance. Troubleshoot OPC communications issues quickly and easily with the integrated OPC Explorer compliance tools. Create Visual Basic or VBA based applications that work with built in OPC 2.0 OLE Automation.

**DataSpy** is fully compliant with the Data Access OPC 1.0a and OPC 2.0 as well as the OPC 1.0 Alarm and Events OPC Foundation Standard. Plug and play with any OPC compatible HMI, SCADA, control or any OPC application. **DataSpy** is based on COM/DCOM technology and supports local, Intranet or Internet operation. Use the **OPC DataSpy** to perform diagnostics, troubleshooting or performance tuning locally or remotely.

**DataSpy** comes complete with OPC Explorer type look and feel for integrated real-time monitoring of OPC tags. Also included is powerful OPC Universal Tag Browser for connecting to any OPC Server and associated tags over the Internet and Intranet.

### Features Include:

- Test for OPC Compliance
- Runs with Windows NT, 95/98 and 2000
- Easy to use OPC test client works with any application
- Analyze problems with third party Servers
- Provide complete reports and OPC Analysis
- Powerful OPC Tag Browse Interface
- Statistics and Performance Analyzer
- Online connection to OPC Servers
- Online configuration of OPC tags and alarms
- Supports COM/DCOM & OLE Automation

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0

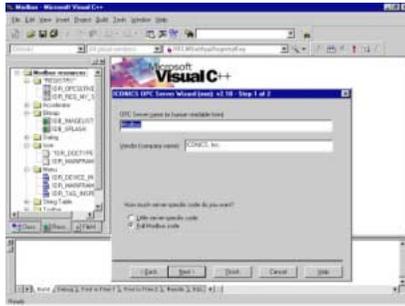
Catalog Number	Unit Price	Availability
DataSpy	Consult Factory	Now



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### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0

**OPC ToolWorX™ v3.0** is the industry's first OPC Toolkit that meets the OPC Foundation's Compliance Specification. It integrates the latest OPC Data Access and OPC Alarm & Events in one Toolkit. Rapidly develop high quality production grade OPC compliant OPC DA and A/E servers and clients. Create fully operational OPC servers and clients using powerful ICONICS VC++ Wizards in days. New **ICONICS OPC ToolWorX** provides on-line documentation on how to create OPC Servers for Windows NT, 95/98, Millennium, 2000 and Windows CE.

Over 150 companies depend on ICONICS for their OPC Toolkit. ICONICS was first to introduce a production grade toolkit to the market. ICONICS OPC experts helped create the specifications and sample code for OPC. Learn how to create 32 bit multi-threading, multi-processor OPC Servers and Clients. Create high performance in process and out of process OPC servers using COM, DCOM and XML.

Supports all required OPC COM interfaces, including several optional interfaces. Use the free OPC DataSpy to test OPC Server for troubleshooting and OPC compliance. Use Dr. DCOM for rapid networking setup and configuration to dramatically reduce development and system commissioning times.

### Features Include:

- Runs on Windows NT, CE, 95/98, Millennium & 2000
- OPC Servers Comply with OPC Foundation OPC Tests
- Faster Time to Market – Cut weeks off your development
- Proven Toolkit Guarantees Robust and Reliable OPC Servers
- Easy to Use with Full Documentation
- Develop Windows CE 2.X and 3.X OPC Servers
- Integrates with Visual C++ version 6.0
- Low Cost DLL and Full Source versions available
- Includes OPC Configuration Explorer and OPC COM Interfaces
- Production Grade Modbus OPC Server and source code
- Powerful OPC Universal Tag Browser
- Ideal for learning Multi-Threaded Server Design

Catalog Number	Unit Price	Availability
OPC ToolWorX	Consult Factory	Now



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### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0

**Pocket DataSpy™** is a Windows CE Based OPC Data Access and Alarm/Events analysis application that allows the testing and monitoring of OPC information for data, alarms, data quality, performance and compliance with the OPC Foundation Standards.

**Pocket DataSpy** is ideal for testing OPC Data Access or Alarm Servers for OPC minimum and optional compliance. Troubleshoot OPC communications quickly and easily with the integrated OPC Explorer compliance tools.

**Pocket DataSpy** is fully compliant with the Data Access OPC 1.0a and OPC 2.0 standard as well as the OPC 1.0 Alarm and Events OPC Foundation Standard. Plug and Play with any OPC compatible HMI, SCADA, Control or OPC application.

**Pocket DataSpy** is based on COM/DCOM technology and supports local, Intranet or Internet operation. Use **Pocket DataSpy** to perform diagnostics, troubleshooting or performance tuning locally or remotely.

**Pocket DataSpy** comes complete with OPC Explorer look and feel for integrated real-time monitoring of OPC tags. Also included is a powerful OPC Universal Tag Browser for connecting to any OPC Server and associated tags over the Internet and Intranet.

#### Features Include:

- Runs on Windows CE V2.X and higher
- Test for OPC Compliance
- Supports ARM, SH3/SH4, MIPS and Intel
- Easy-to-use universal OPC test client
- Analyze problems with third party Servers
- Provide complete reports and OPC Analysis
- Powerful OPC Tag Browse Interface
- Statistics and Performance Analyzer
- On-line connection to OPC Servers
- On-line configuration of OPC tags and alarms

Catalog Number	Unit Price	Availability
Pocket DataSpy	Consult Factory	Now



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### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Server Generator \_is OPC Toolkit

The \_is OPC Toolkit enables even developers, who are not that familiar with OPC, to deliver specific OPC servers within a very short time.

The server provides a custom as well as an automation interface to the client. Thanks to an integrated XML interface \_is OPC based servers can read XML device descriptions.

### OPC Seminar

The one-day seminar for developers provides an introduction to the OPC Data Access standard.

- Discussion of COM and DCOM
- Structure and interfaces of an OPC Server
- Important functions in detail.

### Consulting and Support

With our rich experience we offer support for the integration of an OPC server in your vendor-specific environment.

### Features Include:

- ATL based class library
- Free-threading model
- Project wizard
- Class library, optional source code version
- XML interface
- Demonstration client
- OPC configuration tool
- OPC ActiveX client additionally

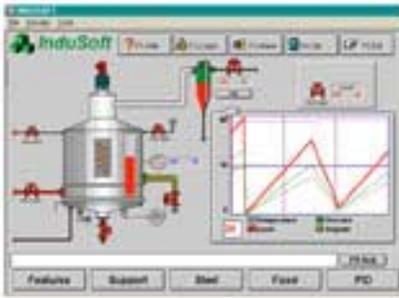
Catalog Number	Unit Price	Availability
_isOPC Toolkit	Consult Factory	Now



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### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a

### AUTOMATION THE WAY IT SHOULD BE

The InduSoft suite of automation software enables you to create flexible, scalable applications for all your monitoring and control requirements. InduSoft has all the tools you need to configure Windows CE-based operator interfaces, local and remote supervisory workstations, and even powerful Windows NT-based SCADA systems. Starting today, you can move data all the way from the plant floor up to corporate IT systems.

#### Features Include:

- Project Browser simplifies project management
- Automatically translates operator displays from English to any language
- Dynamic configuration during runtime reduces downtime
- All tags cross-indexed to save engineering time, reduce errors
- Internet features updates objects and data in real time on web pages
- International sales and technical support, training and warranty service

Windows CE and NT licenses available immediately. Prices starting at \$750. Includes 100+ device drivers.

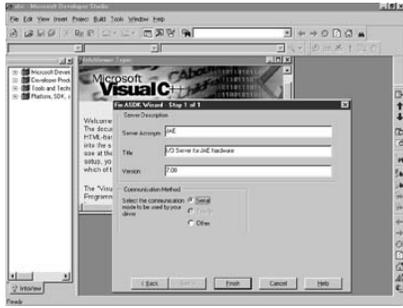
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



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Intellution's OPC Server Toolkit enables users to write reliable, high-performance I/O servers from start to finish in as little as one week. Your I/O servers include a complete OPC compliant interface, and will work seamlessly with any OPC client, any FIX software application, and any OLE automation application.

**Features Include:**

- The Development Wizard automatically builds the source code base for your I/O server.
- On Line training sessions give you step-by-step instructions in your server development process.
- On-line Help provides conceptual and reference information, a code glossary, examples of objects, classes, methods and properties, as well as advanced tips.
- The Auto Documentation Wizard automatically creates on-line documentation.
- Universal OLE Automation Interface opens your I/O servers to any OLE application.
- Power Tool includes an intuitive graphical user interface that provides easy configuration, diagnostics, and data monitoring.
- Port Sharing enables users to have multiple I/O servers access the same communications line!
- Remote Configuration and Diagnostics enables you to configure and diagnose your server from a remote node on the network.

**Type of Product**

Developer Tools or Services

**OPC Compatibility**

OPC Data Access 1.0a

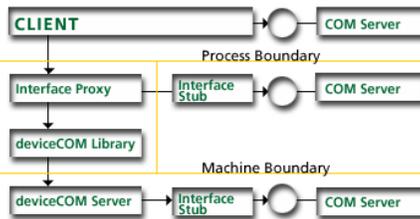
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory



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### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0

### Windows CE, NT/2000/98/95, Linux

Intrinsyc deviceCOM™ provides robust, transparent distributed COM connectivity to all Windows platforms or Linux systems. Intrinsyc deviceCOM is ideal for linking OPC clients to OPC servers in distributed control applications, and for connecting factory floor systems to the enterprise. Using deviceCOM, developers, systems integrators and original equipment manufacturers can quickly and easily create sophisticated and reliable distributed systems for Windows or Linux.

#### Features Include:

- COM and DCOM compatibility:
  - Intrinsyc deviceCOM for Windows CE and NT -- makes Windows CE COM objects accessible over networks, and provides Windows CE client applications transparent access to standard DCOM services running on all Windows platforms.
  - Intrinsyc deviceCOM for Linux -- allows the development of COM objects for Linux and makes Linux COM objects accessible over networks. It also allows Linux applications to transparently access standard COM services on all Windows platforms.
  - Configurable connection timeouts.
- Small memory footprint: requires less than 350K of memory on the target device.
- Efficient connection management: designed to minimize the network overhead required to manage potentially unreliable connections between machines. Ensures that resources are released if a network connection terminates unexpectedly.
- Platform support:
  - Intrinsyc deviceCOM for Windows CE and NT -- Windows CE 2.1x and 3.0, Windows 2000, Windows NT 4.0 and Windows 95/98.
  - Intrinsyc deviceCOM for Linux: Red Hat 6.2.
- Protocol support: can be deployed over TCP/IP or UDP networks. Architecture is extensible and can be adapted to support other communication protocols.
- Multi-threaded and scalable: takes full advantage of threading support in order to maximize performance. Multiple requests can be processed simultaneously.

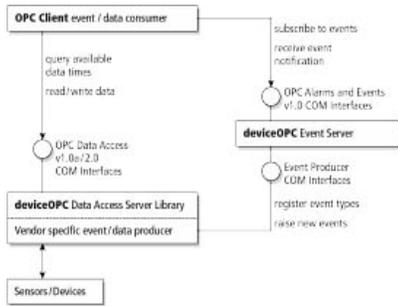
Catalog Number	Unit Price	Availability
dCOM for Windows CE and NT	\$5,000 USD	Now
dCOM for Linux	\$5,000 USD	Now



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### Windows CE, NT/2000/98/95, Linux

Intrinsyc deviceOPC™ is a software toolkit that allows developers to quickly and easily create OPC servers for Windows-based or Linux-based systems. Intrinsyc deviceOPC is optimized for use with Intrinsyc's deviceCOM -- Intrinsyc's leading solution for rugged, distributed connectivity.

#### Features Include:

- deviceOPC for Windows or Linux supports:
  - Data Access Interface Standard, v1.0a and 2.0
  - OPC Alarms and Events Standard, v1.0
- Platform Support:
  - Intrinsyc deviceOPC for Windows CE and NT -- Windows CE 2.1x and 3.0, Windows 2000, Windows NT 4.0 and Windows 95/98.
  - Intrinsyc deviceOPC for Linux: Red Hat 6.2.
- Optimized for use with Intrinsyc's deviceCOM. Intrinsyc's leading solution for rugged, distributed connectivity.

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0

Catalog Number	Unit Price	Availability
dOPC for Windows CE and NT	\$5,000 USD	Now
dOPC for Linux	\$5,000 USD	Now



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 Fax: (1) 604 801-6417  
 e-mail: [sales@intrinsyc.com](mailto:sales@intrinsyc.com)  
 Web: [www.intrinsyc.com](http://www.intrinsyc.com)

**PHOTO  
UNAVAILABLE**

Intrinsyc OPCShield protects mission-critical OPC servers from badly behaved OPC clients. OPCShield also protects OPC clients similarly.

OPCShield transparently intercepts all communication between an OPC client and server and ensures that resources are released on behalf of the client or server if the connection is unexpectedly broken as a result of network problems or software errors.

**Features Include:**

- In conjunction with Intrinsyc deviceCOM, OPCShield has the following features:
  - Server resources released after client or network failure
  - Clean client recovery after server failure
  - Configurable timeouts
  - Automatic reconnect after network error
  - Process-to-process pings
  - DCOM Compatible
  - Flexible protocol support
  - Firewall friendly
- Platform Support:
  - Windows NT 4.0
- Optimized for use with Intrinsyc's deviceCOM, Intrinsyc's leading solution for rugged, distributed connectivity.

**Type of Product**

OPC Server

**OPC Compatibility**

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0  
 Historical Data Access 1.0

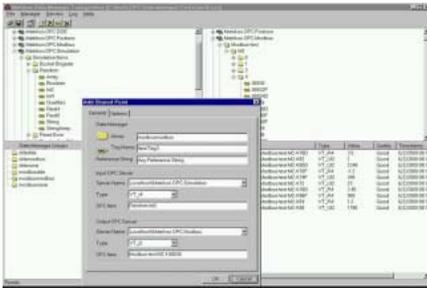
Catalog Number	Unit Price	Availability
OPCShield	Consultation Basis	Now



**Intrinsyc**

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 Vancouver, BC V6C 1G8  
 Canada

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 Fax: (1) 604 801-6417  
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 Web: [www.intrinsyc.com](http://www.intrinsyc.com)



Matrikon's OPC Data Manager (ODM) is a software application that transfers data from one OPC server to another. Use ODM when you need to share data between two or more control systems (e.g. PLC and a DCS). With ODM this connectivity can be accomplished with standard off-the-shelf software. It requests data from one server and immediately sends it to the other OPC server.

This software is available for free download from Matrikon's web site:  
[www.matrikon.com/download](http://www.matrikon.com/download)

### Features Include:

- Fully OPC 1.0a and OPC 2.0 compliant
- Automatic throttling control (ensures that the OPC server is not overloaded)
- Support for both COM and DCOM
- Responsive multithreading design
- Email and paging capabilities
- Simple configuration
- Runs as a Windows Service
- Supports OPC browsing
- Includes Matrikon OPC Explorer and Matrikon OPC Simulation Server for Simulation and Testing purposes

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0

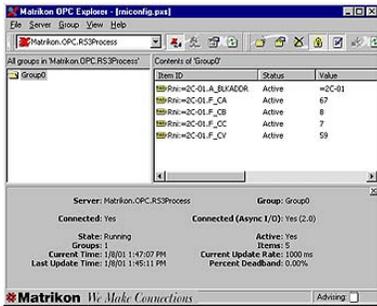


### Matrikon

OPC Sales  
 Suite 1800, 10405 Jasper Avenue  
 Edmonton, Alberta T5J 2N4  
 Canada

Phone: (1) 780 448-1010  
 Fax: (1) 780 448-9191  
 e-mail: [drivers@matrikon.com](mailto:drivers@matrikon.com)  
 Web: [www.matrikon.com/opc](http://www.matrikon.com/opc)

*\*See Additional Company Information*



The Matrikon OPC Explorer is a full featured OPC client designed to help in the installation, testing, and configuration of OPC compliant servers.

This tool is available for free download from Matrikon's web site:  
[www.matrikon.com/download](http://www.matrikon.com/download)

### Features Include:

- Fully OPC 1.0a and OPC 2.0 compliant
- Responsive multithreading design
- Includes Matrikon OPC Explorer

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0



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 Web: [www.matrikon.com/opc](http://www.matrikon.com/opc)

*\*See Additional Company Information*



The Delegator is an objective investigator for troubleshooting OPC client/server interoperability issues. The Delegator is a drop-in component that supports both OPC DA 2.0 and 1.0a specifications. It transparently logs all client/server activity on standard OPC interfaces. This information is key to diagnosing, pinpointing and resolving OPC compliance, compatibility and interoperability issues in a non-biased and objective way.

This tool is available for free download from Matrikon's web site:  
[www.matrikon.com/download](http://www.matrikon.com/download)

**Features Include:**

- Log all client/server activity
- Fully OPC 1.0a and OPC 2.0 compliant
- Responsive multithreading design

**Type of Product**

Developer Tools or Services

**OPC Compatibility**

OPC Data Access 1.0a  
 OPC Data Access 2.0



**Matrikon**

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 Web: [www.matrikon.com/opc](http://www.matrikon.com/opc)

*\*See Additional Company Information*



### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

The Matrikon OPC Redundancy Broker (ORB) is a software application that enables you to easily implement redundancy in systems that take full advantage of OPC technology. The ORB is designed for OPC applications that must use redundant hardware and/or software to achieve the highest degree of communication reliability.

This software is available for free download from Matrikon's web site:  
[www.matrikon.com/download](http://www.matrikon.com/download)

### Features Include:

- Fully OPC 1.0a and OPC 2.0 compliant
- Automatic throttling control (ensures that the OPC server is not overloaded)
- Support for both COM and DCOM
- Responsive multithreading design
- Email and paging capabilities
- Simple configuration
- Runs as a Windows Service
- Supports OPC browsing
- Includes Matrikon OPC Explorer and Matrikon OPC Simulation Server for Simulation and Testing purposes



### Matrikon

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Web: [www.matrikon.com/opc](http://www.matrikon.com/opc)

*\*See Additional Company Information*



The Matrikon OPC Server for Simulation and Testing is an OPC compliant server that provides simulated data values to OPC clients. Invaluable for testing client functionality, this server generates random, ramped, and stepped values. As well, the server provides a unique "bucket-brigade" mechanism that enables control logic testing.

This tool is available for free download from Matrikon's web site: [www.matrikon.com/download](http://www.matrikon.com/download)

### Features Include:

- Fully OPC 1.0a and OPC 2.0 compliant
- Responsive multithreading design
- Includes Matrikon OPC Explorer

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



### Matrikon

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Suite 1800, 10405 Jasper Avenue  
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Web: [www.matrikon.com/opc](http://www.matrikon.com/opc)

*\*See Additional Company Information*



At Measuresoft we perform both product and applications development. Whether you require an OPC product or a once-off OPC application we have the experience and expertise to meet your requirements. We have implemented solutions in the process control, manufacturing, exploration and telecommunication industries. Measuresoft specializes in Microsoft development architectures and is a certified Microsoft Solution Provider. Measuresoft software development and support services are registered to the ISO 9001/TickIT standard.

**Features Include:**

- Microsoft Visual C++, MFC, ATL, Win32 SDK, Visual Basic
- Microsoft SQL Server and Access, OLEDB, ADO, ODBC
- Microsoft Visual InterDev, Active Server Pages, DHTML, VBScript
- Microsoft COM, COM+, DCOM with Microsoft Transaction Server (MTS), Microsoft Message Queue (MSMQ) and Microsoft Cluster Server (MSCS).
- Microsoft Site Server and Commerce Server
- Microsoft Visual Modeller, Rational Rose, UML
- Microsoft Project, Visual SourceSafe
- OPC, Serial Comms Programming

**Type of Product**

Developer Tools or Services

**OPC Compatibility**

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0  
 Historical Data Access 1.0

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



**Measuresoft Development Ltd**

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 Dundalk  
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 Web: [www.measuresoft.com](http://www.measuresoft.com)



Development of OPC clients/servers and other software equipment for industrial automation according to customer's demands. Successfully completed OPC development for ICONICS (USA), SAIA-Burgess Electronics (Switzerland) and others. Development available for Windows NT/9x/2000, Windows CE 2.11, 2.12, 3.0 and Linux platforms.

### Features Include:

- Communication with OPC clients/servers supporting all the OPC Specifications
- OPC compatibility tested with Compliance Test Tools by OPC Foundation
- Membership at OPC Interoperability Workshops
- A lot of experience in using OPC in many industrial applications
- OPC products are tested in real applications

On-line information available at: [www.merz-sw.com/cust-dev.php3](http://www.merz-sw.com/cust-dev.php3).

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0  
 Historical Data Access 1.0

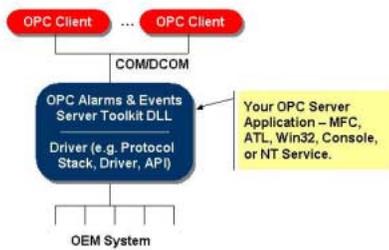
Catalog Number	Unit Price	Availability
N/A	Call for Info	Now



### MERZ, spol. s r. o.

U sirotcince 353/7  
 CZ-460 01 Liberec 1  
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Phone: (420) 48 5100272; (420) 48 5108635-8  
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 e-mail: [opcs@merz-sw.com](mailto:opcs@merz-sw.com)  
 Web: [www.merz-sw.com](http://www.merz-sw.com)



Northern Dynamic's OPC Alarms and Events Server Toolkit is ideal for the product developer planning to provide OPC connectivity in their product offering.

Use the OPC Alarms & Events OPC Server Toolkit to create an OPC 1.02 A&E compliant out-of-process server with minimal knowledge of the OPC Specification. You can rely on the A&E toolkit to deliver the same high quality and performance as the Northern Dynamic OPC Data Access Server Toolkit.

The 32-bit, Windows platform A&E toolkit implements all OPC A&E interfaces including event area browsing. The toolkit is packaged as a single DLL, is multi-threaded, and can be used in conjunction with the OPC Data Access Server Toolkit DLL or used independently.

Download the OPC Alarms & Events Server Toolkit from our website for free. Build your OPC server. When satisfied, license the toolkit to disable the 30-minute timeout.

### Features Include:

- **Guaranteed compliance with the OPC standard.** The toolkit supports all interfaces as defined by the 1.02 Alarms and Events Specification. Download the toolkit product data sheet from our website for a complete list of supported interfaces.
- **Efficient communications.** The toolkit uses a free threaded design.
- **All 32-bit Windows platforms are supported.** Windows 95 / 98 / NT / 2000 .
- **Link the toolkit to most types of applications.** MFC, ATL, Win32, console, NT service.
- **Support.** Shipped with a detailed reference manual and sample server source code. Backed by a dedicated support team.

### Type of Product

Developer Tools or Services

### OPC Compatibility

Alarms and Events 1.0

Catalog Number	Unit Price	Availability
TKAE-10 – Single Seat Binary	Consult Website	Now
TKAE-10-SITE – Site License with Source Code	Consult Website	Now
Annual Software Maintenance and Support Programs Available	Consult Factory	Now



### Northern Dynamic Inc.

J103-155 Frobisher Drive  
Waterloo, Ontario N2V 2E1  
Canada

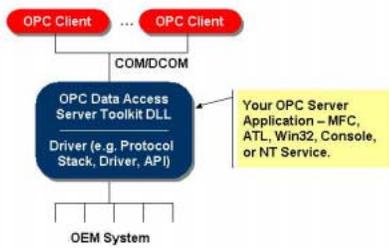
Phone: (1) 519 725-2071; (1) 888 265-7345

Fax: (1) 519 725-2072

e-mail: [solutions@nordyn.com](mailto:solutions@nordyn.com)

Web: [www.nordyn.com](http://www.nordyn.com)





Northern Dynamic's OPC Data Access Server Toolkit is ideal for the product developer planning to provide OPC connectivity in their product offering. Using the toolkit, you can focus on driver development and not worry about the intricacies of OPC and COM. OPC and COM details are abstracted away behind an easy to use class library packaged in a single DLL.

Toolkit users can cut valuable time off development schedules. If you already have the protocol stack for your device, an OPC server can be developed literally in a matter of days using the toolkit.

The built-in run-time diagnostics feature helps reduce support costs for your OPC server.

Download the OPC Data Access Server Toolkit from our website for free. Build your OPC server. When satisfied, license the toolkit to disable the 30-minute timeout.

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Features Include:

- **Guaranteed compliance with the OPC standard.** The Toolkit supports all required and most optional interfaces as defined by both the 1.0A and 2.0 Specifications. The sample server supplied with the toolkit is compliant with the OPC Foundation Data Access Conformance Test Software. Download the toolkit product data sheet from our website for a complete list of supported interfaces.
- **Efficient communications.** The toolkit uses a free threaded design.
- **All 32-bit Windows platforms are supported.** Windows 95 / 98 / NT / 2000 .
- **Link the toolkit to most types of applications.** MFC, ATL, Win32, console, NT service.
- **Built-in run-time diagnostics.** OPC client/server interaction tracing. Server connection and performance statistics.
- **Support.** Shipped with a detailed reference manual and sample server source code. Backed by a dedicated support team.

Catalog Number	Unit Price	Availability
TKD-20 (Single Seat Binary)	Consult Website	Now
TKD-20-SITE (Site License with Source Code)	Consult Website	Now
Annual Software Maintenance and Support Programs Available	Consult Factory	Now



### Northern Dynamic Inc.

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Web: [www.nordyn.com](http://www.nordyn.com)

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### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a

#### Company Description:

Science Systems is an IT services and solutions company specialising in the management, design, development, installation and support of IT systems and software for a wide range of applications.

Established in 1980, Science Systems operates from a Head Office in Bristol and has a network of offices throughout the UK. Our project services are comprehensive and focused and we are able to address any element of the systems development and implementation lifecycle through the use of staff with specialist industry and technology expertise.

#### Served Markets:

Science Systems has a predominantly blue chip client base which includes leading names in the following process industries: electricity, gas, water and wastewater.

#### OPC Products or Services Description:

Science Systems provides consultancy and development services to the Utilities, Defence, Telecommunications and Transport industries and has provided a number of bespoke management information systems that interface to and extract information from a variety of real-time control systems. OPC has become a key strategic element of interfacing between business and control systems. Science Systems is now providing OPC support and development services to its clients. These services range from advising clients on the potential uses of OPC by business and real-time systems to the development of bespoke OPC client and server implementations, either as standalone systems or within larger systems development strategies.

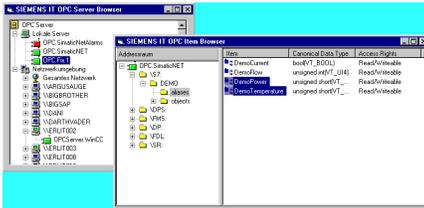
Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory



#### Science Systems

Steve Brignall, Technical Assurance Manager  
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Web: [www.scisys.co.uk](http://www.scisys.co.uk)



Modern software design concepts are based on the usage of components. When developing OPC-Clients several standard functions can be encapsulated in controls to simplify the access to OPC-Servers. Using our Active-X-Controls special tasks of an OPC-Client are covered with a minimum programming effort, e.g. the search and selection of OPC Servers in a network or the browsing of tags within the address space of an OPC-Server is provided in separate controls that already include an easy-to-use front end. The Group Control reduces the complexity of the OPC interface providing only the most commonly used functions for read and write operations.

### Features Include:

- Server Browser: searching and selection of Data Access and A&E Servers (local and remote)
- Item Browser: searching and (multi-)selection of tags for a given Data Access 2.0 Server
- Group Control: user defined item handling, read and write operations
- All controls use the Custom Interface
- Operating Systems: Windows NT, 2000
- Languages: VisualC++, VisualBasic, Delphi, HTML, Access, Excel, Word
- OPC Spec: Data Access, Alarms & Events (only Server Browser)

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0



### Siemens AG

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*\*See Additional Company Information*



Consulting & Support

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 2.0  
Alarms and Events 1.0  
Historical Data Access 1.0  
Batch

For OPC-Server and OPC-Client development we offer a wide range of consulting and support services passing our great experience from our own development of several clients and servers. As a result of developing the OPC DA Compliance Test Tool and from our close relation to the OPC Foundation we can give advice with respect to performance, stability and security including the latest trends in the areas OPC and development environment. We attend companies from the planning stage through the implementation to system integrative tests.

#### Features Include:

- Consulting and support for client and server development
- Architectural planning and concept finding
- Implementation support
- Test concepts, integrative tests
- Operating Systems: Win98, NT, 2000 and WinCE
- Languages: ATL, VisualC++, VisualBasic, Delphi
- OPC Spec: Data Access, Alarms & Events, Historical DA, Batch, XML



#### Siemens AG

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*\*See Additional Company Information*

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### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0  
Alarms and Events 1.0

SINUMERIC HMI Programming Package offers data access to the SINUMERIC 840D automation system family and works together with the SINUMERIC HMI (HMI-Advanced). This includes the SINUMERIC PC based control solutions SINUMERIC 840Di (Soft-NC and Slot-PLC), the SINUMERIC 840D, SINUMERIC 810D and the SINUMERIC FM-NC.

The physical communication between SINUMERIC HMI Programming Package and the selected control engine is possible via MPI.

SINUMERIC HMI Programming Package offers different methods to access process data:

- via ActiveX controls and Microsoft Visual Basic
- other OLE applications
- OPC interface

The integrated OPC Data Server allows OPC Clients to view or modify process data, the OPC Event Server allows OPC Clients to view messages and events of the CNC control.

#### Features Include:

- ActiveX controls to access process data of the control engine (Fileviewer, NC-Editor, etc.)
- OPC-Data Server
- OPC-Event Server
- Native COM Servers of the SINUMERIC HMI (HMI-Advanced)
- Visual Basic and Visual C++ samples

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



#### Siemens AG

Automation & Drives  
SIMATIC Human Machine Interface  
P.O. Box 4848  
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Web: [www.siemens.com/protool](http://www.siemens.com/protool)

*\*See Additional Company Information*

**PHOTO  
UNAVAILABLE**

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0  
 Historical Data Access 1.0

**SoftDEL OPC Services** simplify the process of making applications OPC compliant, adding OPC connectivity to existing applications or I/O drivers. **SoftDEL OPC Services** even take OPC compliance into the platform neutral Java world!

SoftDEL offers a set of ready to use software components together with software development services to provide a rapid turnaround for the engineering of new OPC Servers and Clients.

Development services can be used on-site at your facility, or offshore based at our Software Development Centre in Bombay, India.

SoftDEL can also offer technology consultancy to help you get the best out of your resources.

#### Features Include:

- Rapid OPC Server Development
- Make an OPC Server out of an existing I/O Driver, a PC application or even a Java application
- Make an OPC Client out of a PC application or a Java application.
- Complete Development Service
- Maximise Code Reuse

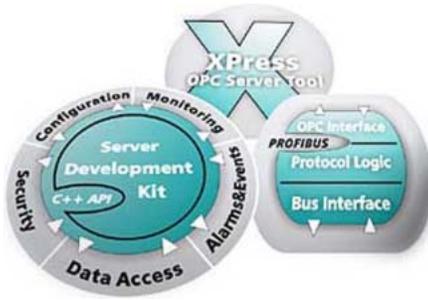


#### SoftDEL Systems Ltd.

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 Worthing BN14 7UG  
 United Kingdom

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 Fax: (44) 1903 201537  
 e-mail: [ian.hughes@softdel.com](mailto:ian.hughes@softdel.com)  
 Web: [www.softdel.com](http://www.softdel.com)

*\*See Additional Company Information*



OPC Client Controls provide the instant use of full Data Access functionality without any programming of code. Two OPC based ActiveX Controls - the OPCDataControl and the OPCDATreeView Control – enable browsing of the name space of any Data Access Server and handle the complete data exchange. More information and free demo at [www.softing.com/OPC](http://www.softing.com/OPC)

### Features Include:

- Rapid connection to DA Servers on local or remote computers for any ActiveX container
- Flat and hierarchical name space browsing
- Filter options for name, type, access rights
- Single and multiple selection of items
- Support of VB controls like EditBox, Label etc.
- Automatic formatting and validating of OPC item values
- Flexible presentation of the name space
- Extended and custom tooltips

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory



### Softing GmbH

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The OPC Client Development Toolkit consists of a DLL with complete OPC Client functionality. Full source code is provided. Simple inclusion of the OPC Client Library thereby make software applications “OPC-capable.” OPC Servers, Groups and Items are selected via configuration dialog boxes, in which the data access levels can be defined as well. Here, selection can be made between synchronous or asynchronous reading, and notification of modified values via the special callback feature. More information and free demo at [www.softing.com/OPC](http://www.softing.com/OPC)

**Features Include:**

- DLL for rapid OPC Client development and full source code
- supports Windows 95, 98, NT and 2000
- Name space browsing
- excellent tutorial for instant development start
- full source code sample
- free updates for one year

**Type of Product**

Developer Tools or Services

**OPC Compatibility**

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



**Softing GmbH**

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The OPC Server Development Toolkit facilitates effortless development of Data Access and/or Alarms and Events OPC Server programs. The OPC SDK represents the completely implemented OPC Server functionality for access to any hardware. Security features as well as user interface for configuration, visualization and diagnostics are supported. The delivery of both products contains tutorials and comprehensive samples in source code. More information and free demo at [www.softing.com/OPC](http://www.softing.com/OPC)

**Features Include:**

- DLL for rapid OPC Server development and full source code
- Saves the software engineer the lengthy process of having to master the concepts concealed behind the OLE, COM, DCOM, and ATL technology.
- Supports Windows 95, 98, NT, 2000 and CE
- In-Process, Out-of-Process Server or NT Service supported
- Free threading model support for high performance
- User-friendly on-line help
- Excellent tutorial for instant development start
- Full source code sample
- Free updates for one year

**Type of Product**

Developer Tools or Services

**OPC Compatibility**

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0

Catalog Number	Unit Price	Availability
OPC Engine	Consult Factory	Now



**Softing GmbH**

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 e-mail: [juergen.lange@softing.com](mailto:juergen.lange@softing.com)  
 Web: [www.softing.com/OPC](http://www.softing.com/OPC)



### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0  
 Historical Data Access 1.0

OPC seminars and workshops for decision makers, product managers, and developers. One-day introductory and one-day advanced OPC seminars are offered at Softing in Munich, Dusseldorf, Karlsruhe, Verona and at distributors in Europe and the U.S. The seminars contain information about all OPC Specification and white papers. Ask also for seminars, trainings or workshops at your company.

#### Overview of Contents:

- Which solutions does OPC offer?
- What functions are included in OPC?
- How can you benefit by using OPC?
- Which development tools are available?
- Which companies presently implement OPC?
- Where can you obtain further information?
- Which functions does OPC feature (technical background)?
- How can an OPC Server be designed?
- How can an OPC Client be designed?
- Demonstration and classroom exercise
- Exchange of experience and discussion

Catalog Number	Unit Price	Availability
OPC-SEM-1	700,-DM	Now
OPC-SEM-2	850,-DM	Now
OPC-SEM-1+2	1450,-DM	Now



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### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0

The XPress OPC Server Tool is a complete OPC Server supporting the entire OPC functionality according to Data Access 1.0 and 2.03, Alarms & Events 1.01 and the combination of these two Specifications. Develop only three functions for a complete OPC Server: initializing, configuration, and I/O (read, write). Additional functions are available for Alarms&Events Servers and, optionally, for Data Access Servers. More information and free demo at [www.softing.com/OPC](http://www.softing.com/OPC)

### Features Include:

- Designed for top-speed development of OPC Servers with up to 20,000 data points Easy C interface.
- C++ programming is possible but not necessary
- Minimum OPC knowledge required
- Project generation in only a few seconds by means of the XPress OPC Server Tool Wizard
- Supports Windows 95 (with DCOM 95), Windows 98, Windows NT 4.0 and Windows 2000
- Flexible programming with MS VC++, Borland C++ Builder and Borland Delphi
- Tested samples for MS VC++, Borland C++ Builder and Borland Delphi
- Context-sensitive help integrated in development environment (MS Visual Studio)
- Free updates for one year

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Consult Factory



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**PHOTO  
UNAVAILABLE**

The DCOM Integrator is the product that delivers full interoperable DCOM implementations for Unix and NT. The DCOM Integrator is a product for companies who want to build server applications that run on Unix, (or Linux / OS390) as well as NT. Exceptional speed and reliability are built into the DCOM Integrator. The product includes an Active-X template library for C++ as well as support for all COM enabled languages.

**Features Include:**

- ATL Version 3.0 & Porting Tools
- DLL Surrogates
- Component Object Pooling
- New Platforms

**Type of Product**

Developer Tools or Services

**OPC Compatibility**

OPC Data Access 1.0a  
OPC Data Access 2.0

**Manufacturers Supported**

INTEL  
MOTOROLA  
HP  
IBM  
COMPAQ  
SUN  
SIEMENS

**Networks Supported**

TCP/IP  
COM/DCOM

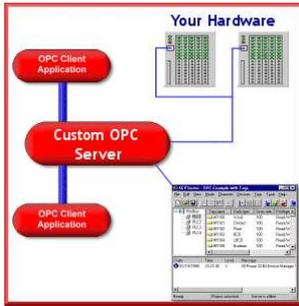


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*\*See Additional Company Information*



### Type of Product

Developer Tools or Services  
OPC Server

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

Through our in house staff of development experts and network of partners, Software Toolbox® offers you the widest range of OPC server development expertise in the automation industry in one place. Software Toolbox is heavily focused on development of industrial and manufacturing device drivers, specifically OPC servers and ActiveX controls.

#### Features Include:

- Visual Basic to OPC Development
- Visual C++ Development
- OPC Server development for serial or Ethernet custom protocols
- Quick OPC Server deployment available for low volume servers using our rapid server creation tools
- OPC Development expertise since 1996
- Over 10 years device driver development experience
- Our development teams have written over 50 OPC servers in the last 3 years.
- Client references available

Download free demos and technical datasheets for every OPC server we offer on our website at the above address. All products available for secure online purchase at our website.

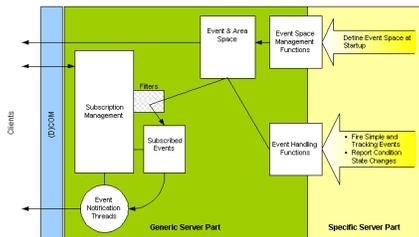
Catalog Number	Unit Price	Availability
Assigned per project	Contact for a Quote	Immediately



#### Software Toolbox, Inc.

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Web: [www.softwaretoolbox.com](http://www.softwaretoolbox.com)



Technosoftware's OPC AE Server Source Toolkit is provided in C++ source code giving the user the opportunity to:

- Add the application specific code as C++ classes
- Maintain high efficiency

Well structured and documented source code is supplied. The code parts which need user adaptations are located in separate files; therefore, training time can be minimized and upgrades to new standard versions are possible with minimal effort.

Extensive error reporting helps locating errors quickly. Installation and diagnostic utilities significantly simplify the installation process.

### Features Include:

- Server Code:
  - ATL based, free threaded, multithreaded server
  - All filters are supported and internally handled
  - The recommended attributes which are valid for all categories are already internally handled
  - Dynamic expansion of the Event Area Space at runtime is possible
  - OPC AE Sample implementation as reference server
  - Can be compiled with; Trace Output, As NT service, For Unicode
- Diagnostic and trouble shooting utilities for COM/DCOM installations
- Interactive clients for test purposes are delivered as executables
- Free Telephone support and updates are included free of charge for one year

Visit [www.opctoolkit.com](http://www.opctoolkit.com) for more details.

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a

Catalog Number	Unit Price	Availability
OCSAE-STK	Ask for details	Now

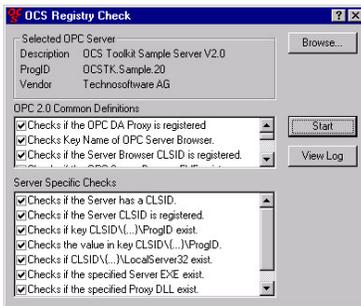


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*\*See Additional Company Information*



### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0

Technosoftwares OPC Client Source Toolkit Advanced Edition provides information and source of clients using the Custom and Automation interface:

- Microsoft Visual C++
  - Simple Synchronous Client Source Code
  - Simple Asynchronous Client Source Code
  - Interactive Client Source Code
  - Diagnostic Client Source Code
  - Almost all OPC server functions may be called interactively
  - Utility to search the registry for missing or conflicting entries
  - Utility to check the operating system base (e.g. service pack number)
- Borland C++ Builder:
  - Simple Synchronous Client Source Code
- Borland Delphi:
  - Simple Synchronous Client Source Code
  - Simple Asynchronous Client Source Code
- Microsoft Visual Basic
  - Simple Synchronous Client Source Code
  - Simple Asynchronous Client Source Code
  - Diagnostic Client Source Code
- Microsoft Excel
  - Simple Synchronous Excel Spreadsheet
- Microsoft Visual C++ source modules for:
  - COM Initialization and connection to the OPC Server
  - AdviseSink creation and asynchronous I/O callback handling
- Client Sample Source for Alarms&Events Specification is included in next release.
- Three sample servers as executables which can be used to test the clients and eliminate the effort to create test servers
- Free Telephone support and updates are included free of charge for one year

Visit [www.opctoolkit.com](http://www.opctoolkit.com) for more details.

Catalog Number	Unit Price	Availability
OCS-CTK-Advanced	Ask for details	Now

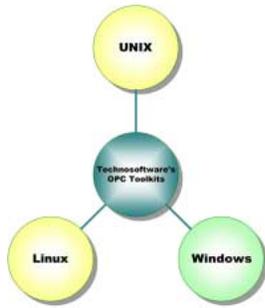


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*\*See Additional Company Information*



### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0

Technosoftwares OPC Client Source Toolkit Linux Edition provides information and source of clients using the Custom interface under Linux based operating systems:

- C++
  - Simple Synchronous Client Source Code
  - Simple Asynchronous Client Source Code
- C++ source modules for:
  - COM Initialization and connection to the OPC Server
  - AdviseSink creation and asynchronous I/O callback handling
- Proxy source code for:
  - OPC DA 1.0a
  - OPC DA 2.0
- Client Sample Source for Alarms&Events Specification is included in next release.
- One sample server for Linux as executable and three sample servers for Windows as executables which can be used to test the clients and eliminate the effort to create test servers
- Free Telephone support and updates are included free of charge for one year

Visit [www.opctoolkit.com](http://www.opctoolkit.com) for more details.

Catalog Number	Unit Price	Availability
OCSL-CTK	Ask for details	Now

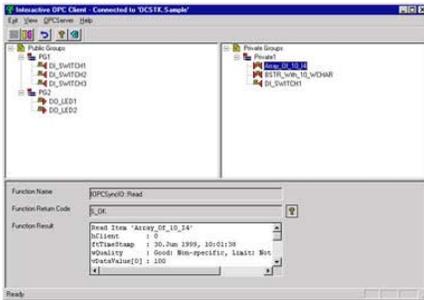


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*\*See Additional Company Information*



Technosoftwares OPC Client Source Toolkit Base Edition provides information and source of clients using the Custom and Automation interface:

- Microsoft Visual C++
  - Simple Synchronous Client Source Code
  - Simple Asynchronous Client Source Code
  - Interactive Client Source Code
- Borland C++ Builder:
  - Simple Synchronous Client Source Code
- Borland Delphi:
  - Simple Synchronous Client Source Code
  - Simple Asynchronous Client Source Code
- Microsoft Visual Basic
  - Simple Synchronous Client Source Code
  - Simple Asynchronous Client Source Code
- Microsoft Excel
  - Simple Synchronous Excel Spreadsheet
- Microsoft Visual C++ source modules for:
  - COM Initialization and connection to the OPC Server
  - AdviseSink creation and asynchronous I/O callback handling
- Client Sample Source for Alarms&Events Specification is included in next release.
- Three sample servers as executables which can be used to test the clients and eliminate the effort to create test servers
- Free Telephone support and updates are included free of charge for one year

Visit [www.opctoolkit.com](http://www.opctoolkit.com) for more details.

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0

Catalog Number	Unit Price	Availability
OCS-CTK-Base	Ask for details	Now

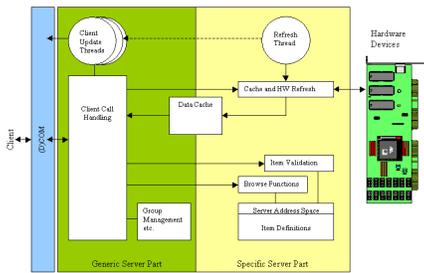


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*\*See Additional Company Information*



Technosoftware's OPC DA Server Source Toolkit is provided in C++ source code giving the user the opportunity to:

- Add the application specific code as C++ classes
- Maintain high efficiency

Well structured and documented source code is supplied. The code parts which need user adaptations are located in separate files; therefore, training time can be minimized and upgrades to new standard versions are possible with minimal effort.

Extensive error reporting helps locating errors quickly. Installation and diagnostic utilities significantly simplify the installation process.

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Features Include:

- Server Code:
  - ATL based, free threaded, multithreaded server
  - Highly efficient Custom and Automation (dual) interface
  - Multiple outstanding transactions possible for asynchronous I/O
  - OPC DA Sample implementation as reference server, tested with the OPC Compliance Test Tool
  - The common parts of the server are completely implemented. This reduces the required knowledge of (D)COM significantly
  - The application specific parts are separated in clearly defined modules with simple interfaces
  - All optional interfaces are supported
  - Can be compiled with; Trace Output, As NT service, For Unicode
- Diagnostic and troubleshooting utilities for COM/DCOM installations
- Interactive clients for test purposes are delivered as executables
- Free Telephone support and updates are included free of charge for one year

Visit [www.opctoolkit.com](http://www.opctoolkit.com) for more details.

Catalog Number	Unit Price	Availability
OCSDA-STK	Ask for details	Now

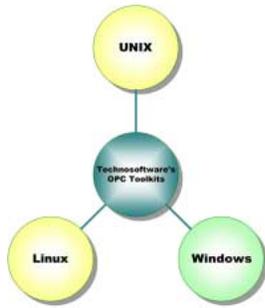


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*\*See Additional Company Information*



### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

Technosoftwars OPC DA Server Source Toolkit for Linux is provided in C++ source code giving the user the opportunity to:

- Add the application specific code as C++ classes
- Maintain high efficiency

Well structured and documented source code is supplied. The code parts which need user adaptations are located in separate files; therefore, training time can be minimized and upgrades to new standard versions are possible with minimal effort.

#### Features Include:

- Supported Operating Systems:
  - SuSE Linux
  - Red Hat Linux
  - Other platforms on request
- Supported Interfaces:
  - OPC DA Custom Interface V1.0a, V2.04
- Server Code:
  - Nearly the same source code as the OPC DA Server Source Toolkit for Windows also available from Technosoftwars
  - ATL based, free threaded, multithreaded server
  - Highly efficient Custom and Automation (dual) Interface
  - Multiple outstanding transactions possible for asynchronous I/O
  - The common parts of the server are completely implemented. This reduces the required knowledge of (D)COM significantly
  - The application specific parts are separated in clearly defined modules with simple interfaces
  - All optional interfaces are supported
  - OPC DA Sample implementation as reference server, tested with the OPC Compliance Test Tool
- Included:
  - EntireX DCOM for Linux SDK
- Free Telephone support and updates are included free of charge for one year

Visit [www.opctoolkit.com](http://www.opctoolkit.com) for more details.

Catalog Number	Unit Price	Availability
OCSLDA-STK	Ask for details	Now



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*\*See Additional Company Information*



### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0

Technosoftware's OPC Enterprise Source Toolkit is a complete package providing source code of several OPC DA and AE servers and clients.

#### Features Include:

- Server Code:
  - ATL based, free threaded, multithreaded server
  - Highly efficient Custom and Automation (dual) Interface
  - OPC DA Sample implementation as reference server, tested with the OPC Compliance Test Tool
  - OPC AE Sample implementation as reference server
  - The common parts of the server are completely implemented. This reduces the required knowledge of (D)COM significantly
  - The application specific parts are separated in clearly defined modules with simple interfaces
  - All optional interfaces are supported
  - Can be compiled with Trace Output, as NT service, for Unicode.
- Client Code:
  - Source of DA clients using the Custom and Automation interface in Microsoft Visual C++, Microsoft Visual Basic, Microsoft Excel, Borland C++ Builder and Borland Delphi
  - Client Sample Source for Alarms&Events Specification is included in next release.
- Diagnostic Code:
  - Diagnostic COM Interface
  - Spy Client
- Diagnostic and trouble shooting utilities for COM/DCOM installations
- Free Telephone support and updates are included free of charge for one year

Catalog Number	Unit Price	Availability
OCS-Enterprises	Ask for details	Now



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*\*See Additional Company Information*



### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0  
 Historical Data Access 1.0

The OPC workshop gives information about the OPC standards, COM/DCOM technology and the OPC toolkits. The workshop helps software developers to:

- learn the Basics about the OPC standards as well as COM/DCOM
- get the know-how for realizing a custom OPC server as well as time and cost estimations
- get know-how for the requirements and the structure of an OPC Server
- get the basics of the new OPC on Linux implementation

The one day workshops are offered at Technosoftware in Switzerland. Advanced seminars are available. Ask for details.

### Workshop Contents:

- Aims and status of the OPC standards
- Basics of OPC
- Basics of (D)COM
- Example of an implemented OPC server
- Demonstration of servers and clients
- Basics of the OPC Toolkits
- OPC on Linux

### Requirements:

- No specific OPC knowledge is required

Visit [www.opctoolkit.com](http://www.opctoolkit.com) for more details.

Catalog Number	Unit Price	Availability
OCS- Workshop	Ask for details	Now

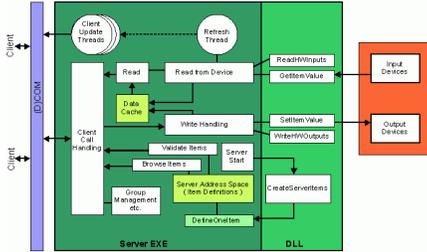


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*\*See Additional Company Information*



Technosoftware's OPC Swift Development Kit offers a fast and easy access to the OPC DA server technology. The Swift Server is a complete 32bit free-threaded OPC DA Server, which supports both the Custom and Automation interface.

### Features Include:

- Servers conform to the OPC DA standard.
- Developers can concentrate on their specific hardware environment without spending a lot of time for OPC internal details.
- Updates to new OPC standards are easy and are usually done within a couple of minutes.
- The OPC Data Access Specification V1.0A and V2.0 are supported.
- All interfaces are supported including the OPC optional interfaces.
- Complete sample DLL source in Microsoft Visual C++, Borland Builder and Borland Delphi.
- Registry Check Utility
- Trace Window
- Simple Asynchronous Custom Interface Client
- Simple Asynchronous Automation Interface Client
- Custom Interface Diagnostic Client
- Automation Interface Diagnostic Client
- Free Telephone support and updates are included free of charge for 60 days

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

Catalog Number	Unit Price	Availability
OPC-DLL	Ask for details	Now

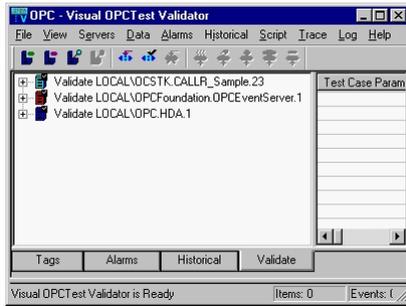


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*\*See Additional Company Information*



It is the ultimate OPC test and validation client, invaluable to any OPC developer, QA test personnel, and server toolkit provider. Built on a solid test plan, test cases will thoroughly exercise all of your server's interfaces. For correctness, each test case is setup and executed individually and does not rely on previous test case output. Customize, automate, and create your own test cases using any desired scripting language. Thousands of test cases, e.g. the *AddGroup* function alone has over 300 independent test cases. For more detailed specification and free demo please visit us at [www.opctest.com](http://www.opctest.com).

### Features Include:

- Test Cases for all DA 1.0a interfaces
- Test Cases for all DA 2.0 interfaces
- Test Cases for all AE 1.0 interfaces
- Test Cases for required HDA 1.0 interfaces
- Customize & automate Test Cases with scripting
- Test Case Plan based on OPC Specification
- Full DA, AE, and HDA client
- Proven OPC Interoperability
- Free one-year product upgrades

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0  
 Historical Data Access 1.0

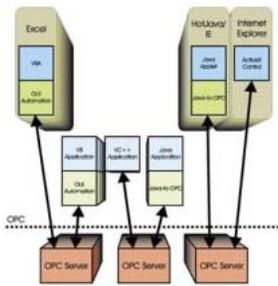
Catalog Number	Unit Price	Availability
Consult Factory	Consult Factory	Now



### Terravic Corporation

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 Web: [www.opctest.com](http://www.opctest.com)



Development of customer-specific OPC clients and servers with integration to customer-specific backends, buses and subsystems. Solutions can be implemented in a large number of technologies – including native COM platforms like Microsoft Windows and technologies based on non-COM platforms like the Sun Java platform.

TietoEnator is a company with 11,000 employees located in 13 European countries. TietoEnator works within all segments of IT and computing – including industrial software development. Through a high level of technical skills within a broad range of technologies, TietoEnator is a preferred vendor to major industrial companies throughout Scandinavia.

### Features Include:

- Complete, customer-specific OPC clients and servers
- Seminars and education in all OPC and OPC-related technologies
- Integration with proprietary buses and subsystems
- OPC aware components in the form of ActiveX components and JavaBeans
- Custom-made OPC-bridges for accessing OPC from other platforms through a number of languages and middleware-technologies, including C++, VB, Java, RMI and CORBA
- Internet-access to OPC-servers

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0

Catalog Number	Unit Price	Availability
N/A	Call for Info	Now

**TietoEnator**<sup>TE</sup>  
 Building the Information Society

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# Alarm & Event Toolkits

#### Type of Product

Developer Tools or Services

#### OPC Compatibility

Alarms and Events 1.0

Trebing and Himstedt has been the successful exclusive reseller of all FactorySoft's OPC products in Germany. Trebing and Himstedt provides the local support to FactorySoft's OPC products, including Toolkits, servers, and client products. Numerous producers were helped with technical consulting and decision making.

As a widely-respected and leading OPC technology provider in Europe, Trebing and Himstedt provides the most popular OPC products with the best support. All Trebing and Himstedt products were OPC-enabled using FactorySoft's OPC Toolkits.

The OPC Alarm & Event Toolkit for servers or clients is the fastest and easiest way to add support for the newest OPC interface to your products. The A&E interface is completely independent of Data Access and this Toolkit can be used in conjunction with FactorySoft's other OPC toolkits, or with your own code.

#### Features Include:

- Complete source code.
- Example Modbus server.
- Can be used with any OPC Data Access interface implementation.
- Supports "Simple Event" and "Condition Event".

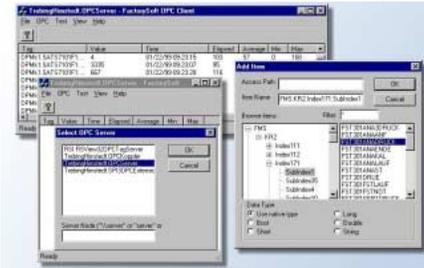


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The full-source Client Toolkit provides information on implementing the OPC client interface to build an OPC Client.

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Features Include:

- Source code is provided for an OPC client application that demonstrates use of the COM interfaces.
- Example Modbus server for use in testing your OPC client application.
- Server program that exercises the OPC COM interface for testing and debugging of your client.
- Documentation describes how to create a client including helpful tips ranging from multithreading issues to object lifetimes.
- An OPC Client that runs on Windows CE is provided.

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now

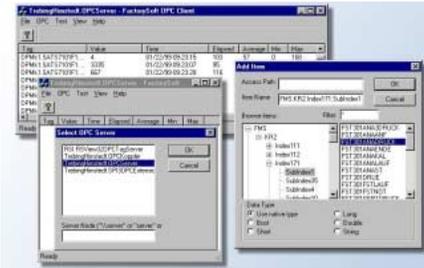


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The OPC Rapid Development server Toolkit packages the complete OPC interface into a single DLL, eliminating the need to learn the complexities of Microsoft COM, DCOM or ATL. Simply write the communication protocol routines for the I/O device and the OPC DLL does the rest. OPC Servers have been developed using the Rapid Development Toolkit in as little as two days.

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Features Include:

- Free threading model on both Windows NT and Windows 95 platforms.
- Support of self-registration, browsing, data quality reporting, and timestamps.
- Use as a stand-alone server or an NT service.
- Sample application source code and comprehensive documentation illustrating how to use the OPC DLL.

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now

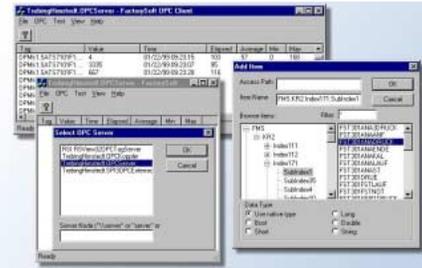


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The OPC Server Toolkit is a full-source toolkit that provides information and examples for designing an OPC server.

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0

### Features Include:

- Complete modularized source code for full-featured, 32-bit multi-threaded servers. Advanced design takes advantage of Windows NT 4.0 features such as the free-threading model for improved performance.
- Source code for the Rapid Development Toolkit DLL, including a sample application that demonstrates the capabilities of the DLL.
- In-proc server DLL, for high-performance communication. Source code for the DLL provides the Automation interface layer to the OPC COM interface, including a Visual Basic sample that uses the Automation interface.
- Example Modbus server showing how an OPC server is constructed.
- Client program that exercises the OPC COM interface for testing and debugging your server.
- Documentation that describes how to create a server, including helpful tips ranging from multi-threading issues to object lifetimes.

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



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Client/Server DA  
Alarm & Event  
Toolkits

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As a widely-respected and leading OPC technology provider in Europe, Trebing and Himstedt provides the most popular OPC products with the best support. All Trebing and Himstedt products were OPC-enabled using FactorySoft's OPC Toolkits.

**Features Include:**

- OPC 2.0 Client/Server Data Access Kit
- OPC Alarm & Event 1.0 Client/Server Kit

**Type of Product**

Developer Tools or Services

**OPC Compatibility**

OPC Data Access 1.0a  
OPC Data Access 2.0  
Alarms and Events 1.0



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Seminars and Workshops



**Type of Product**

Developer Tools or Services

**OPC Compatibility**

OPC Data Access 1.0a  
 OPC Data Access 2.0  
 Alarms and Events 1.0  
 Historical Data Access 1.0

Our one-day OPC Seminar gives you concrete information about the use and range of applications of the OPC-technology.

This seminar is specifically designed to inform you about the innovations through OPC Release 2.0. We represent OPC products and toolkits of FactorySoft for OPC development based on OPC 2.0, and working examples with Excel, Visual Basic and DCOM, along with experience reports of first practice applications.

Trebing & Himstedt is a member of the Europe OPC Steering Committee so we are able to offer first hand information current trends and further developments in Europe and in the USA.

The seminar is designed to help you to make your own decisions on using OPC for your product development and applications.

**Features Include:**

- Lecture notes.
- OPC Release 2.0 Specification.
- Example disk with VB, Excel, MODBUS server, etc.

Catalog Number	Unit Price	Availability
N/A	Consult Factory	Now



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**PHOTO  
UNAVAILABLE**

### Type of Product

Developer Tools or Services

### OPC Compatibility

OPC Data Access 1.0a  
OPC Data Access 2.0  
Alarms and Events 1.0

### Fully Functional "Try Before You Buy" Source Code

The OPC Server and Client Toolkits from WinTECH Software Design were the first to be published with an openly documented API and made available as fully functional session-limited demos. Freely available via internet download, ([www.win-tech.com](http://www.win-tech.com)), these toolkits consist of a Windows DLL that implements all required OPC Interfaces for both OPC 1.0a and OPC 2.0 Data Access as well as the Browse Interfaces and now Alarms & Events. A very simple programmer's interface is presented that allows a user to quickly generate a working Server and/or Client application using his own data in a very short time. Applications generated with the demo toolkits may be verified for reliability and interoperability with other OPC applications prior to making a purchase decision. Very economically priced, each toolkit is available as a Rapid Developers Kit or as Full Source Code.

### Features Include:

- Free threading model for all Windows platforms, (95/98/NT & 2000).
- Supports stand-alone server or NT service designs.
- Simplified, openly documented API.
- Fully functional demos.
- Sample application source code supplied with each toolkit.
- May be used with either C, C++ or Visual Basic.
- Field-proven designs.

Catalog Number	Unit Price	Availability
OPC-RapidServer	\$499.95	Now
OPC-ServerSource	\$1995.00	Now
OPC-RapidClient	\$499.95	Now
OPC-ClientSource	\$1395.00	Now



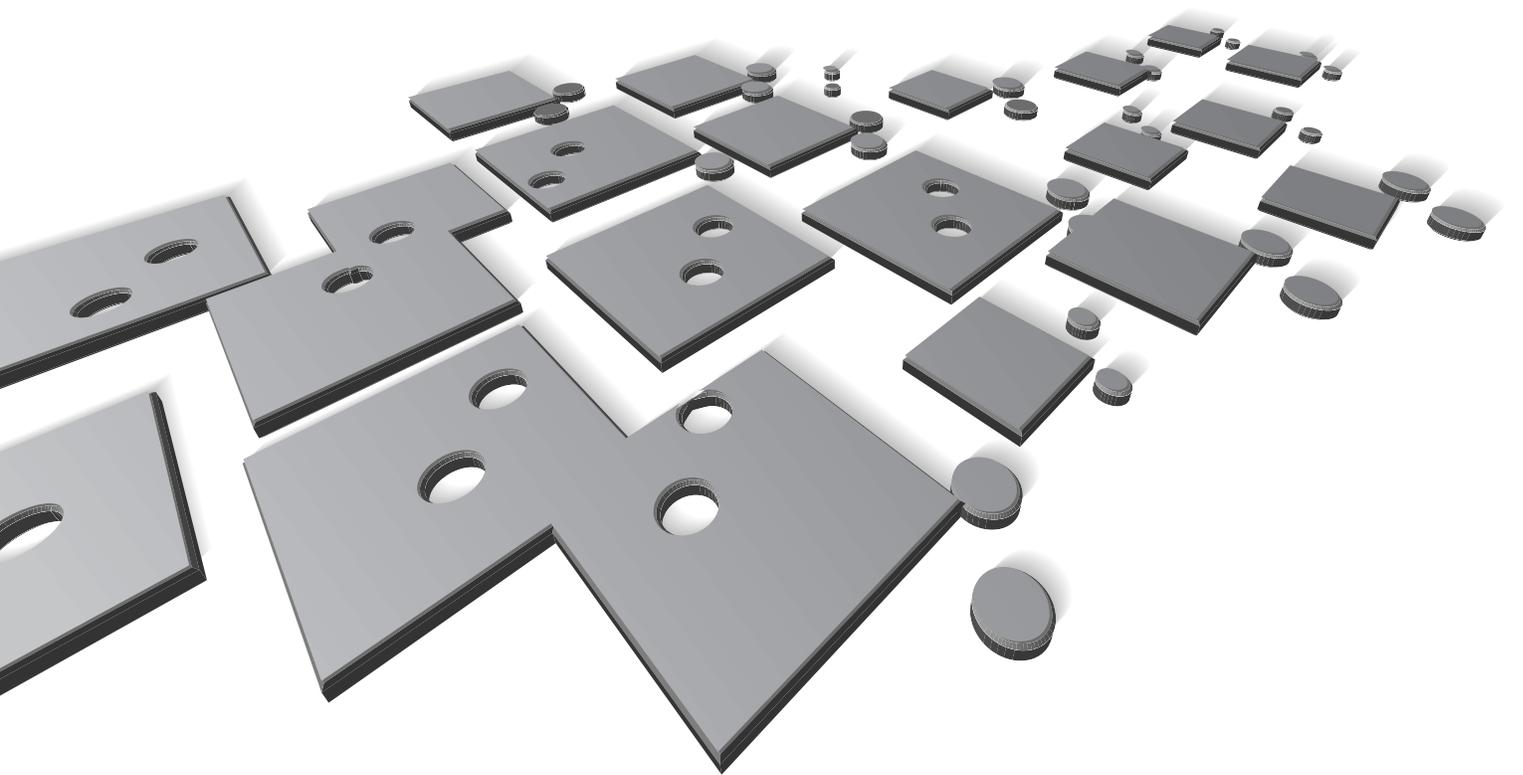
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Web: [www.win-tech.com](http://www.win-tech.com)



# OPC Foundation Sources



## OPC Member Companies as of march 2001

4CE Industry	Cyberlogic Technologies, Inc.	Hitachi Ltd.
ABB Automation	Cybertech Automation, Inc.	Hitachi Naka Electronics Co., Ltd.
ACT Corporation	DanControl Engineering a/s	Honeywell IAC
Advantech	DATALOG Systeme	Horner Electric, Inc.
Afcon	DataViews Corporation	Huakong Technology Co. Ltd.
AGE GmbH, Aachen	DELMIA Corp.	HUT(Helsinki Univ.of Tech)
Agilent Technologies	DH Industries Ltd.	Hydro Resource Solutions LLC
Alcatel Alsthom Recherche	Digital Electronics Corporation	iba-Ingenieurburo Anhaus GmbH
Alitec	Disch GmbH	ICONICS, Inc.
Alstom	Egemin	IDAB WAMAC International AB
AlterSys Inc.	Eldridge Engineering, Inc.	IDAX, Inc.
AMA-SYSTEMS	Elesy	ifak system GmbH
Applicom International, Inc.	Eclipse Software	INAT GmbH
Applied Statistics, Inc.	eMation (pc Soft Int'l)	Indramat GmbH
ARC Informatique	eMation(Intuitive Tech)	InduSoft Ltd.
Asahi Electronics Co.	Endress + Hauser(Coggins)	InduSoft, Russia
Aspen Technology, Inc.	ETM Aktiengesellschaft	Informetric Systems, Inc.
Automated Logic ALC	Europ Supervision	infoteam Software GmbH
Automated Solutions	Eutech Cybermetics Pte, Ltd.	Ing.-Buerro Allemdinger
Automsoft International Limited	FactorySoft, Inc.	INGDESI SA
Bayer Corporation	Fast Automations	Ingelectric-Team S.D.
Beckhoff Industrie Elektronik	ferrocontrol	INOSOFT GmbH
Bently Nevada Corporation	Finntech	Institut-fur Informationstechnik im Maschinenwesen
BEST	Fisher&Paykel Production Machinery	INTAB
BTG Pulp & Paper Technology AB	Fisher- Rosemount Systems	Intellution Inc.
Bullet Software	Ford Motor Co.	Interbus Club Germany e.V.
Camstar Systems, Inc.	Fortetion Ltd.(Barton Information Sys.)	Intrinsyc Software, Inc.
Canary Labs, Inc.	Fuji Electric Co., Ltd.	Ishikawajima-Harima Heavy Industries
Capstone Technology Corporation	GE Fanuc Automation N.A., Inc.	Iwai Kikai-Kogyo Co., Ltd
Case Services	GEA Automation R & D Ltd	Janz Computer AG
CERN	Gebr. HELLER	Jetter GmbH
Chino Corporation	GEFASOFT GmbH	JGC Corporation
Chiyoda Corporation	Gesytec GmbH	Kaneka Engineering Corporation
CI Technologies Pty Limited	GfS mbH	Kawasaki Heavy Industries, Ltd.
CODRA	GMPT	KEPware Inc
Compex N.V.	Grundfos Management	Klinkmann Automation Oy
COMSOFT GmbH	GSE Systems, Inc.	Klopper und Wiege Software GmbH
CONTEC Corporation Limited	GTI - control mbH	KOENIG
Contrec	Hardy Software Systems, Inc.	Kratzer Automatisierungs GmbH
Control Microsystems	Hart Communication Foundation	Kvaerner Chemetics
Corning Incorporated	Heilongjiang Huafu Computer Co. Ltd.	KVB Enertec Inc.
CSI (Control Systems International)	Hexatec Ltd.	Larmia Control AB
CSO	Hilscher GmbH	Lenze GmbH & Co. KG
Cybectec	HIMA Paul Hildebrandt GmbH+Co. KG	Lighthouse Systems Ltd

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LP Elektronik GmbH	PROFIBUS Nutzerorganisation e.V.	Terravic Corporation
Lyle-Kearsley Systems, Inc.	Pronyx Industrisystem AB	Tetra Pak Converting Technologies AB
MAC Mintek	ProSoft	The Foxboro Company
Marin	Prosys PMS Ltd	The Software Toolbox
Matrikon Consulting Inc.	R2	TietoEnator
MDC Technology Limited	Roboticsware	Top Team Technology Inc.
Measuresoft	Rockwell Software Inc.	Toshiba Corporation
Meidensha Corporation	ROY-G-BIV Corporation	Total Control Products (Canada)
Merz, spol. s.r.o	RTE Software & Systeme GmbH	Toyoda Machine Works, Ltd.
Metran	RTS GesmbH	Trebing & Himstedt
Microcim	Saab Marine Electronics AB	Triangle MicroWorks, Inc.
MicroConsult GmbH	SAIA-Burgess Electronics	Triconex Corporation
Microsoft Corporation	Sankyo Seiki Mfg. Co., LTD.	Tsubakimoto Chain Co.
Mikrosay Yazilim	Schneider Automation SA	Tsuzuki Software Co., Ltd.
Mitsubishi Electric Corporation	Science Systems (Industrial) Ltd.	Umetrics
Moeller GmbH	Sequencia Corporation	Unipro Ltd
Morinaga Milk Industry Co. Ltd.	Serck Controls Ltd.	University of Applied Sciences- Schweinfurt (Germany)
Motiva Enterprise LLC	SET Software Co., Ltd.	USDATA Corporation
M-System Co., Ltd.	Shell Oil Products Co.	VBLogic
Multi-Level Technologies, Inc.	Siemens AG, A&D SH	VenturCom, Inc.
National Instruments	Siemens Building Technologies, Inc. Landis Div.	VISCOM Visual Communications
Nederland Haarlem	Siemens Moore Process Automation Inc	Visual Systems, Inc.
Neles Automation	SIG Positec Selectron AG	VMIC
Nemasoft, Inc.	SIMBA Club	VTT Automation
NewCon	SKF Condition Monitoring, Inc.	Weidmuller Connext GmbH & Co.
Nexus Engineering	SL Corporation	Wellspring Solutions, Inc.
NIIIS	SMAR Research Corporation	Wintech Software
Northern Dynamic, Inc.	SMI Control Engineering Co., Ltd.	Wonderware Corporation
Novo Nordisk Engineering A/S	SOFREL	Xycom Automation, Inc.
OMRON Corporation	SoftDEL Systems Ltd.	Yamatake Industrial Systems Co. Ltd.
OMRON Software Co., Ltd.	Softex BVBA	Yokogawa Electric Corporation
Oncuity, Inc.	Softing GmbH	Z System Co., Ltd.
Open Control Foundation e.V.	Spartan Controls Ltd	Zoneworx (Zone Automation)
ORSI Automazione S.p.A.	SST Division of Woodhead Canada	
OSI Software, Inc.	Standard Automation & Control LLC	
Perceptron, Inc.	Systek A/S	
Phillip Morris USA	TA Engineering Co., Inc.	
Phoenix Contact GmbH & Co.	Takebishi Electric Sales Corporation	
Plantware, Inc.	Tampere University of Technology	
POMS Corporation	Techno Trade s.a.	
Power Measurement Ltd.	Technosoftware AG	
PPT Vision, Inc.	Telegyr Systems Corp.	
Predict/DLI	Teletrol Systems, Inc.	
Prediktor AS	TEMAS Ltd.	
Previs Inc.		

## Additional Company Information

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