



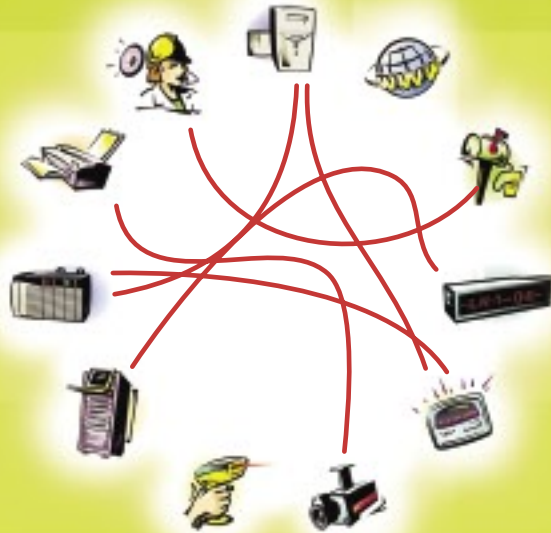
data transport UTILITY software



connecting technologies

## HUNDREDS OF TECHNOLOGIES.

Getting a few technologies to share information is one thing. There are many ways to connect a PLC to a database or a bar-code scanner to a shop floor marquee.



You can integrate these technologies by writing your own custom code. Or you could utilize a monolithic MES or HMI software package to collect the data you need.

## HUNDREDS OF APPLICATIONS.

But actually connecting multiple technologies and applications is entirely a different matter. With the point-to-point approach, the number of integration possibilities grows exponentially with every new technology. Development costs skyrocket as new functionality is patched on top of old systems.



Seemingly simple additions can take months, only to end up limited in their use when they're finally online. That means potentially useful data is difficult to access. Support and maintenance costs, along with the risk of downtime, increase. Data integrity becomes questionable at best.

## THOUSANDS OF POSSIBILITIES.

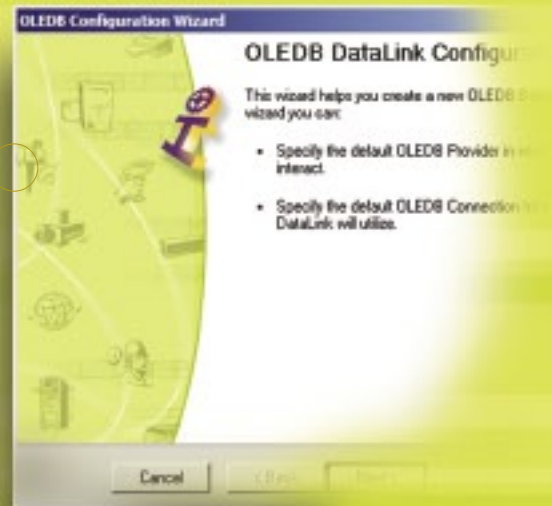


# QUICK CONFIGURATION

The demands on your information and control systems are constantly changing. To respond to those changes, especially in today's compressed development environment, integration must be simplified. I/Gear® has broken down the communication barrier with a simple, comprehensive solution for systemwide interaction that allows dissimilar technologies to easily talk to each other in a cohesive manner – allowing you to hit your deadlines.

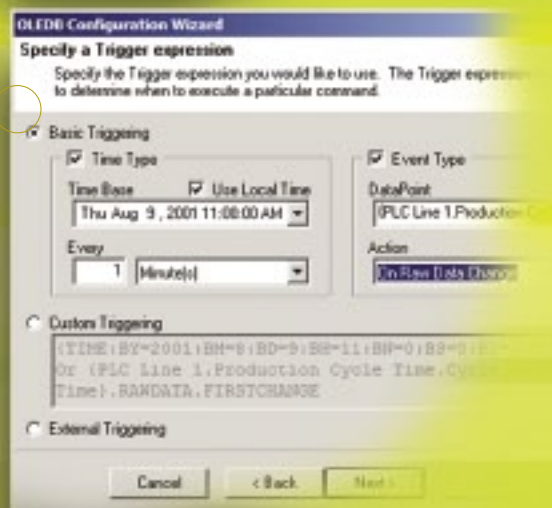
## WIZARD-BASED CONFIGURATION

Intuitive, wizard-based screens step you through even the most complex connections at a fraction of the time it takes to write custom code or configure monolithic packages. All configurations are easily managed through an intuitive, point-and-click interface. Connectivity is now a matter of minutes, not hours or weeks.



## ADVANCED TRIGGERING OPTIONS

Even the most complex data exchange rules are made easy with I/Gear's flexible triggering system. Time and event-based triggers are fundamental to I/Gear. Custom triggering allows boolean combinations of time and event triggers, as well as other VBScript-based criteria. External triggering allows a trigger to be fired manually or through the I/Gear Object Model.



## SHORTER DEVELOPMENT TIME

I/Gear enables you to get your solutions up and running faster with lower support costs. Application development time is reduced by as much as seventy percent. So rather than wasting time on the behind-the-scenes integration code, you can focus on the more creative and visible aspects of the application.

# open, modular design

I/Gear's open, modular design enables you to fully leverage your technology investments by connecting them together quickly and easily in an evolutionary fashion. Our mission is simple – total connectivity. Because I/Gear takes advantage of open standards and off-the-shelf development tools, total connectivity today and in the future is a legitimate reality. And, as you evolve your technology infrastructure, I/Gear evolves too.



## BUILT ON

### open standards

I/Gear incorporates industry standards and is essentially technology-neutral. Inherent to I/Gear are linkages to a wide range of open standards including OPC, OLE DB, Ethernet/Serial, pagers, e-mail and more. Also available are native datalinks to industry leaders such as Wago, Oracle, Wonderware, and many more.

DATALINKS  
OPEN STANDARDS  
DEVICES

## STITCHING

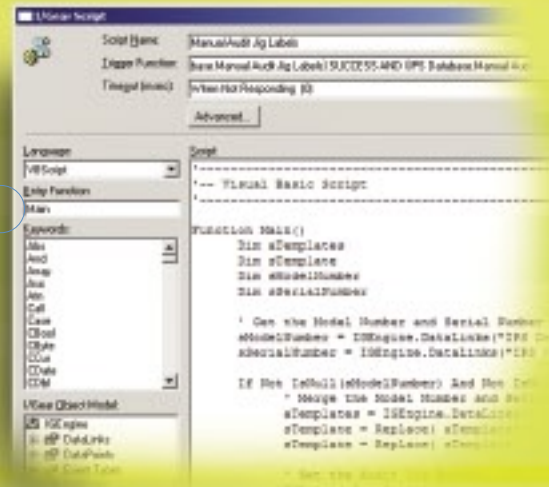
### IT TOGETHER

I/Gear enables you to “stitch” technologies and applications into your existing systems incrementally, allowing systems to evolve in a modular way, with less financial risk. The end result is a solution with greater functionality and flexibility that is less expensive to deploy and support. I/Gear enables you to get the most out of your technology investments and extends the life of your enterprise systems.



## VERSATILITY

The power of I/Gear can be extended using VBScript or JavaScript. You can develop scripts that can build business logic which leverages the information pulled together by I/Gear. The execution of the scripts is controlled by the same advanced triggering methods available for Input and Output Commands within I/Gear. Scripts have full access to the I/Gear object model.



Exchange actual production information with an ERP system to enable supply chain automation

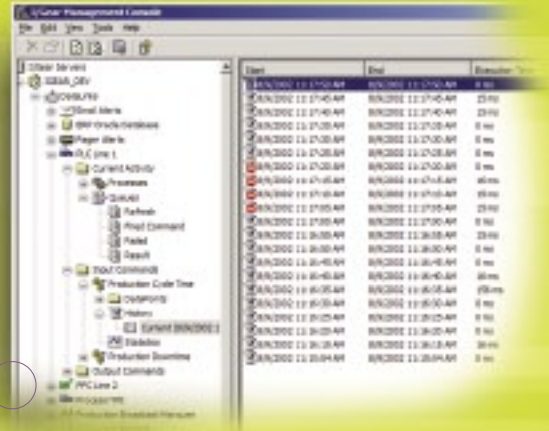
Send an e-mail message to quality control personnel when the process is operating outside control limits.

# RELIABLE DATA TRANSPORT

Data integrity is essential. That's why I/Gear incorporates numerous data transport integrity features to ensure accuracy of information and enhance decision-making. In the event of a hardware or network failure, I/Gear's fault-tolerance features prevent the loss of data. And hot fail-over capabilities keep the application running in the event of a server failure.

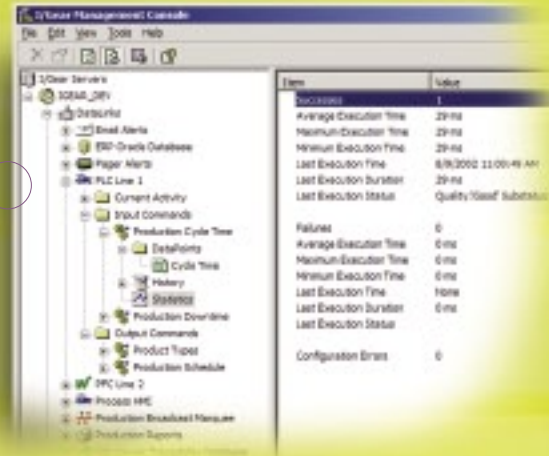
## DATA INTEGRITY

I/Gear provides advanced data queuing algorithms to guarantee information is valid at the instant in time a triggering event occurs. Through I/Gear, data is buffered in a queue to ensure references receive the correct snapshot value as defined by the time validity of the trigger.



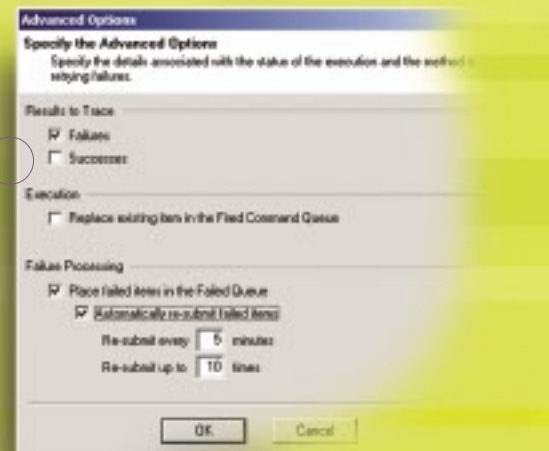
## DETAILED LOGS AND STATISTICS

The information you need to troubleshoot connection or faulty device issues is readily available through I/Gear's event logs and command statistics. I/Gear tracks successes and failures, and automatically calculates statistics on execution times and device throughput capabilities.



## SYSTEM FAULT TOLERANCE

The reality is, systems go down. A network problem. A server crash. What happens to your data when these unforeseen problems occur? I/Gear can automatically save failed commands and resubmit them on a user-defined interval; you no longer have to wonder if a system failure means critical data loss.



Page maintenance personnel to respond to specific down-time events.

Broadcast job assembly information to each work station on a line.

# FEATURE LIST

## Product Features

- Online configuration, make changes without stopping or pausing the system
- Runs as a Windows Service; starts when the computer starts, even with no user logged in
- Dynamic threading model allows DataLinks to work asynchronously from each other
- Extensive Component Object Model (COM) for accessing and controlling the Data Engine from another program
- **Ethernet/Serial Connectivity**
  - o TCP, UDP, Telnet, and ICMP protocols
  - o RS-232, RS-422, RS-485
  - o Solicited or unsolicited input
  - o Supports custom plug-in protocol modules (develop your own protocols)
- **Database Connectivity**
  - o Advanced array processing allows fewer SQL statements to be written
  - o Ability to retrieve, modify, and delete data
  - o Auto-discovery of tables, stored procedures, views, and table columns
  - o Compatible with all OLEDB and ODBC drivers, including Microsoft SQL Server, Oracle, Sybase, IBM DB2, MySQL, Access, Btrieve, and dBase
  - o Point-and-click interface makes selecting tables, views, and stored procedures easy for database novices
  - o Advanced users can write their own custom SQL code
- **OPC Connectivity**
  - o Automatic discovery of tags from source
  - o Connect to any OPC-compliant server
  - o Iteration option allows tag arrays to be manually entered quickly, or tags can be imported from Microsoft Excel
  - o Offline configuration of OPC Commands and DataPoints allows configuration without connecting to the OPC server

- **E-mail Connectivity**
  - o Supports POP3, IMAP4, MAPI, and SMTP
  - o Send and receive e-mail through any standard e-mail server, including Microsoft Exchange, Lotus Notes, Exim, and Sendmail
  - o Send HTML formatted e-mail messages
- **File Access**
  - o Read/write text or binary files
  - o Text files can be read in all at once, one row at a time, or in delimited columns
  - o Output can be appended to current files or configured to overwrite the files
  - o Local and network (UNC) paths are supported
- **Paging Capabilities**
  - o Send digital or alphanumeric pages
  - o Works with TAP (Telocator Alphanumeric Protocol) compliant pager services
  - o Can emulate telephone key presses for proprietary pager services
  - o Send multiple messages in a single call
- **Wago I/O Connectivity**
  - o Read and write data to WAGO® 750-342 Fieldbus coupler and 750-842 Ethernet Fieldbus controller without any additional software
  - o Automatically senses physical I/O configuration and addressing
  - o When using the Fieldbus controller, variable references can be imported into I/Gear for address specification
  - o Automatic optimization of reads and writes
- **Additional and Specialized DataLinks Available**
  - o Oracle (Native Driver)
  - o Wonderware
  - o Modbus
  - o Printer
  - o Hardware or database-specific DataLinks are available (sold separately)

- o Custom DataLinks can be developed by APS or by any third party using the I/Gear Development Toolkit
- o Contact us for more information on your particular device

## Pricing

- o Simple, server-based model – No Tag Limits, No Connection Limits
- o Best value in the industry – No nickel and dime tactics
- o Guaranteed ROI
- o Site licenses available for large installations

## System Requirements

- o Pentium II class processor or greater
- o 128 MB RAM
- o Microsoft Windows 2000 Professional, Server, or Advanced Server or Microsoft Windows XP Home or Professional

For a comprehensive list and detailed description of all features in I/Gear 5.3 Standard Edition, visit [www.igearonline.com](http://www.igearonline.com)

Total connectivity is now a legitimate reality.  
No myths. No undelivered promises. Results guaranteed.

I/Gear is a data transport utility whose advanced design reflects  
over twenty years of industry-defining experience.