

Real-Time Control Software



- *InControl 7.11 software, based on the Microsoft Windows NT operating system, provides real-time system control.*



Visualize



Analyze



Optimize

PRODUCT POSITION

A real-time application engine, Wonderware's InControl software is appropriate for a wide range of manufacturing processes that require high-speed, deterministic data processing and logic. InControl 7.11 software runs on an open system and provides a robust control package that provides both connectivity and sophisticated logic execution capabilities to perform complex scripting for discrete and process applications.

InControl software can expand your control capabilities by supporting run-time engines based on Microsoft's Windows NT and 2000 operating systems; objects based on ActiveX controls; and custom user controls.

The software's IEC61131-3-compliant editors, wide range of I/O interfaces and integrated OPC and SuiteLink communications can help you tailor solutions that meet your exact application requirements.

InControl applications can be developed using user-friendly Relay Ladder Logic (RLL), Sequential Function Charts (SFC) and Structured Text (ST) Editors. The software also provides interfaces to a wide variety of open I/O systems, SuiteLink and OPC servers.

When connected with other products in Wonderware's FactorySuite A² product line, InControl software adds advanced operational

and real-time information capabilities. Its modular design and OPC and SuiteLink communications also offer an impressive degree of flexibility and scalability, outclassing comparable PLC and soft logic packages.

APPLICATIONS

InControl software provides an integrated control and scripting solution that replaces proprietary control systems with an open system based on the Windows NT operating system. It can therefore provide cost-effective integrated connectivity, powerful processing capabilities and easy expandability.

OEMs can especially benefit from the InControl software's high level of connectivity, flexible communication interfaces and editors, multiple I/O systems, and ActiveX capabilities. In addition, the software's distributed runtime engines, powerful PID control, simulation tools and high I/O count can improve your process applications. For machine-control applications, InControl software provides embeddable, real-time discrete control as well as flexible ActiveX technology.

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Powering intelligent plant decisions in real time.

METRICS

InControl 7.11 software offers unparalleled performance using real-time capabilities from Microsoft's Windows NT and 2000 operating systems. It can execute a PID loop in less than 10 microseconds; or 1000 lines of logic in a ST or RLL program in less than 1 millisecond on most standard PCs.

FEATURES AND BENEFITS

- **Open Architecture.** InControl 7.11 software can be used on any platform that supports the Microsoft Windows 2000, XP or 2003 operating system, including flat-panel industrial workstations, SMP servers and open industrial controllers.
- **Factory Objects.** InControl software features the following Factory Objects: PID Factory Object, Lead/Lag, Derivative, Analog Alarm, Dead-Time Delay, Integrator, Limiter, Ratio Station, ICAccess for Visual Basic interfaces, Serial Port v.2.
- **Flexible Communications.** Version 7.11 supports a wide range of network communications, including SuiteLink client/SuiteLink server and OPC client/OPC server.
- **I/O Support.** In addition, InControl software supports popular I/O interfaces for open device network interfaces as well as legacy I/O systems.
- **International Standards.** Wonderware's InControl software supports IEC 61131-3, OPC and Open Device Network Interface standards.
- **Online Features.** InControl 7.11 software offers online monitoring and editing features, including Monitor Process Status, Force I/O, Power Flow Highlighting, Simulation and Debugging.
- **Extensible ActiveX Factory Object Support.** You can create custom algorithms with Visual Basic or C++ and call them from the InControl software as an ActiveX object. Version 7.11 even supports ActiveX object events and can execute ActiveX objects asynchronously.
- **Updated Editors.** InControl 7.11 software offers user-selectable fonts as well as improved printing and debugging tools.
- **ST Text Editor.** The ST Text Editor provides standalone scripting and an enhanced online debugging tool set.

- **User-Definable Functions and Function Blocks.** You can create User-Defined Functions and Function Blocks in RLL or ST languages, which can be instantiated in RLL and ST programs.
- **Enhanced Runtime Engine.** The InControl software's Enhanced Runtime Engine is now more reliable than ever before.
- **Distributed Control Capabilities.** Distributed Control Capabilities allow you to connect to any remote runtime engine, edit and download programs, and monitor status from one central development station.
- **Simulation Capabilities.** InControl 7.11 software provides tools for simulation of real-world processes to debug and optimize applications.
- **Watch Window.** The InControl Watch Window can be used as a standalone application to monitor variables and debug applications.
- **Integrated Tag Browser.** The Integrated Tag Browser offers one-time tag definition for FactorySuite A² products as well as tag export/import.
- **Peer-to-Peer Connectivity.** Integrated OPC and SuiteLink client and server capabilities can facilitate connections to any InTouch server or another InControl software application.
- **No Tag Limits.** InControl software does not enforce license-imposed tag limits.

INTEGRATION WITH FACTORYSUITE A² COMPONENTS

Version 7.11 of Wonderware's InControl software integrates tightly with Wonderware's InTouch HMI and the other FactorySuite A² software products, providing unprecedented power and productivity to the industry. The InControl software is as a core technology component of the FactorySuite A² product line because it executes real-time control logic, connects to factory-floor I/O, provides simulation capabilities and can serve as a data server. InControl software also enhance other Wonderware products because it provides a scripting engine for the InTouch HMI, a phase-logic engine for InBatch production management software, and a data server for the IndustrialSQL Server historian and SuiteVoyager portal software.

FactorySuite A² integration begins at installation. InTouch remote referencing and a common tagname browser allow for the definition of a single database within the InControl software. From this database, users can easily reference any or all tags from the InTouch HMI. SuiteLink and OPC client and server connectivity provides seamless inter-suite communication. In addition, powerful InTouch tools allow for easy control of the InControl runtime engine and provide direct access to InControl programs, projects and tagnames. InControl software's real-time logic execution capability also complements the FactorySuite A² product line by offering a complete set of tools to develop server-based scripting applications for large or thin client-based projects.

SYSTEM REQUIREMENTS

To run InControl 7.11 software, Wonderware recommends the following hardware and software configurations:

- Minimum: PC with a Pentium II processor
- Recommended: 1.2+ GHz
Minimum: 400 MHz on a single-node system
- Recommended: 512 MB of RAM
Minimum: 256 MB of RAM
- Minimum: 2 GB of free hard disk space
- Operating Systems:
 - Microsoft Windows 2000 Professional with Service Pack 3 or higher
 - Microsoft Windows XP Professional with Service Pack 1 or higher
 - Microsoft Windows 2003 Enterprise
- Recommended: SVGA display adapter with 2 MB of RAM
Minimum: SVGA display adapter
- Pointing device such as a mouse or trackball

**Please note: InControl software does not support Net DDE on the Microsoft Windows Server 2003 operating system.

Contact Wonderware or your local Distributor for information about software products for industrial automation.
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