

Wonderware Industry Solutions for Facilities Management



Software Solutions for Real-Time Success™

Wonderware offers software solutions for the facilities management industry that can help you provide higher quality services to your occupants, while minimizing operating costs.

The primary challenges facing facility managers and operators today include:

- Increasing energy costs
- High support contract prices from Building Automation System vendors
- Lack of ability to broadly monitor and control operational costs
- Increasing energy costs
- Quality problems for manufacturing companies due to environmental conditions that are not controlled as part of the process
- Heightened requirements for more secure systems
- Integration with existing legacy systems
- Limited personnel to deal with growing demands

Easy-To-Use, Easy-To-Implement Facilities Management Software Solutions

In the late 1980s, Wonderware pioneered the use of the Microsoft® Windows® operating system in the industrial marketplace. A cornerstone of Wonderware success has been the relentless pursuit of easy-to-use software solutions that are also easy to implement and maintain. That's why Wonderware software has over 500,000 active software licenses, helping customers manage operations in over 125,000 and facilities around the world.

Wonderware recognizes the challenges you face and helps address them with superior software solutions for facilities management.

The Wonderware Facilities Management Software Solutions are built on a growing set of tools that enable the creation of facilities monitoring applications.

- Wonderware InTouch® HMI and SCADA Software
- A Template Library containing ArchestrA®-based objects, graphics and faceplates specifically designed for facilities management
- CXS BACnet Integration Package providing connectivity and integration of BACnet® devices
- CXS BACnet Application Generator for automatically generating instances of BACnet devices and objects discovered on the BACnet network
- CXS i.Link Application Package providing connectivity for Echelon i.LON® devices



Strong Solutions Delivered Through the Wonderware Partners Ecosystem

Through its ecosystem of partners, Wonderware offers choices for facilities managers worldwide by providing an open, flexible software model with a broad distribution network—providing choices to serve them. This approach helps lower total cost of ownership for installation, maintenance and service. Likewise, our software solutions help enable lower energy costs and improved security and work-place performance for a more sustainable environment.

Wonderware Facilities Management Partners

ConneXSoft (CXS)—A leading provider of connectivity tools for facilities management and industrial automation industries. ConneXSoft provides the BACnet integration tools, the BACnet Application Generator and the i.LON integration tools for Echelon's i.LON® SmartServer.

Echelon—A leading supplier of control networking hardware and software. Echelon is a marketing partner and supports Wonderware in the pursuit of facilities opportunities.

Eurotherm—An Invensys business unit that provides control, data and measurement instrumentation products, solutions and services to manage specific parameters of the manufacturing process, such as temperature and pressure. This helps customers in the global control and process markets to meet the demands of statutory regulations and validation requirements in their industry. In Life Science industries such as pharmaceutical manufacturing where compliance to FDA's 21 CFR Part 11 regulations is mandated, Eurotherm is a leader in providing solutions where monitoring and recording of environmental and process conditions is required.

Eurotherm Environmental Monitoring System

Secure Electronic Data
Self Healing Data Archiving
Dynamic Reporting



Store, Forward & Backward Action

- Identify missing period
- Retrieve data from instrument
- Industrial control systems
- Backfill the control Historian with missing data



Programmable Automation Controller

- T2550 PAC provides dual redundant data acquisition
- Secure 21 CFR Part 11
- Historian data at source

Benefits for Manufacturing Facilities

In manufacturing processes, product quality, throughput and overall manufacturing costs can be affected by variations in environmental conditions. Our manufacturing domain knowledge results in solutions that enable more than the integration of the facilities side of the business with the manufacturing side. It also provides a common platform for deployment of total manufacturing facility systems to analyze manufacturing costs and quality control. All while delivering an integrated framework for services for world-class manufacturing facilities.

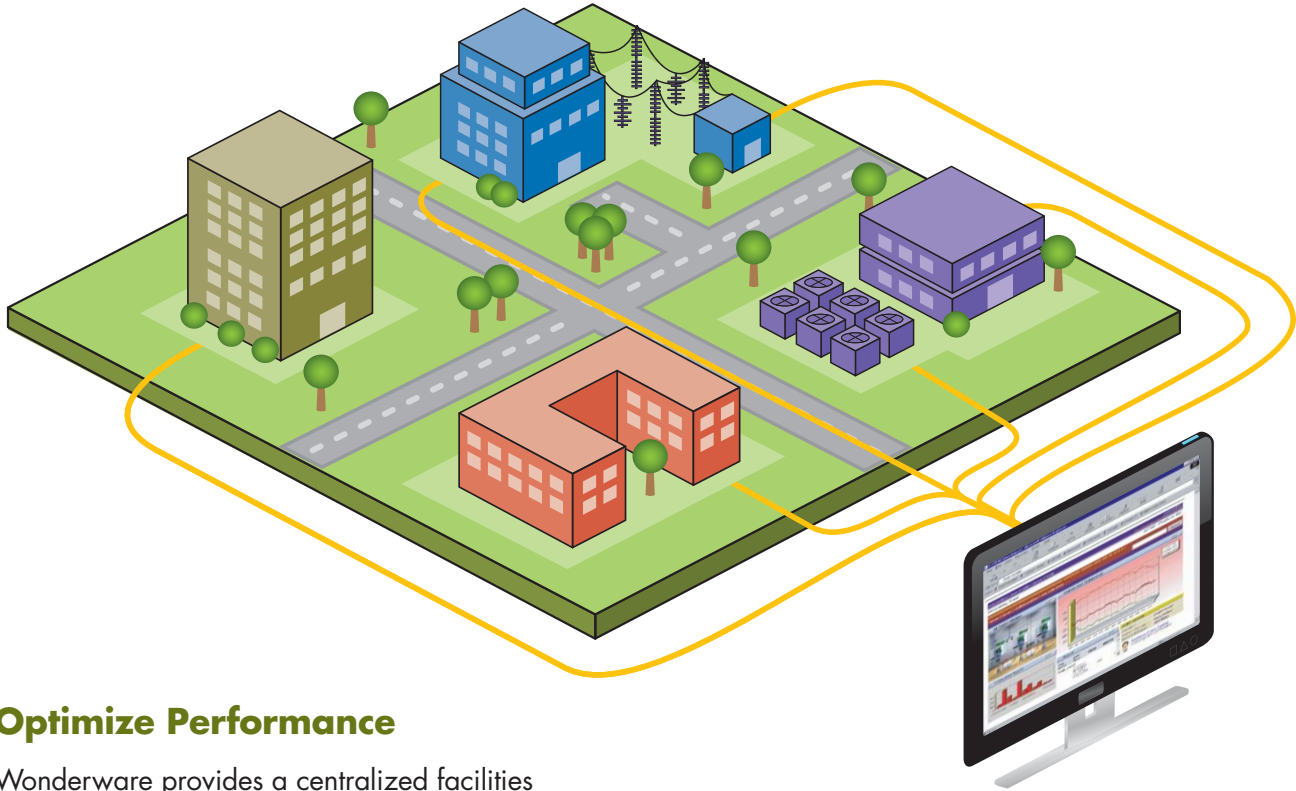
Benefits for Commercial and Institutional Facilities

Wonderware offers open software solutions that empower users to monitor and control operations, help improve operational efficiencies and generate reports that comply with regulatory agencies. Wonderware facilities management solutions focus on integrating multiple Building Automation System (BAS) vendor products within a single software solution, resulting in lower maintenance costs and more operational freedom.



Simplify Maintenance with Remote Deployment

Wonderware provides the most efficient software tools on the market. These tools provide secure and remote system access and make it easy for customers to maintain, deploy and manage supervisory applications. Facilities managers and building operations departments can easily deploy and manage automation applications over large networks from a centralized computer. This approach helps eliminate the chore of installing and maintaining proprietary applications on every computer in the system.



Optimize Performance

Wonderware provides a centralized facilities management system, enabling solutions for:

- Manufacturers seeking to combine factory-floor supervision with facility and utility management
- Industrial or institutional facilities in education, health care, life sciences, government and other industries
- Energy optimization and real-time pricing applications for utilities and physical plants
- Supervisory control and operations management of transportation systems
- Multi-building campuses, distributed-building monitoring and integrated building systems

Leverage Unparalleled Security

System security is an increasingly critical factor and an essential requirement for facilities managers. Wonderware offers a security model that can be managed and integrated with the IT department's Windows Operating System security, while providing robust data level security. This model optimizes the management of security while helping to protect the system from cyber, internal or physical risks. Wonderware offers extensive knowledge on securing critical networked applications that coexist with other systems within an open infrastructure.



Collect and Analyze Data from New and Existing Systems

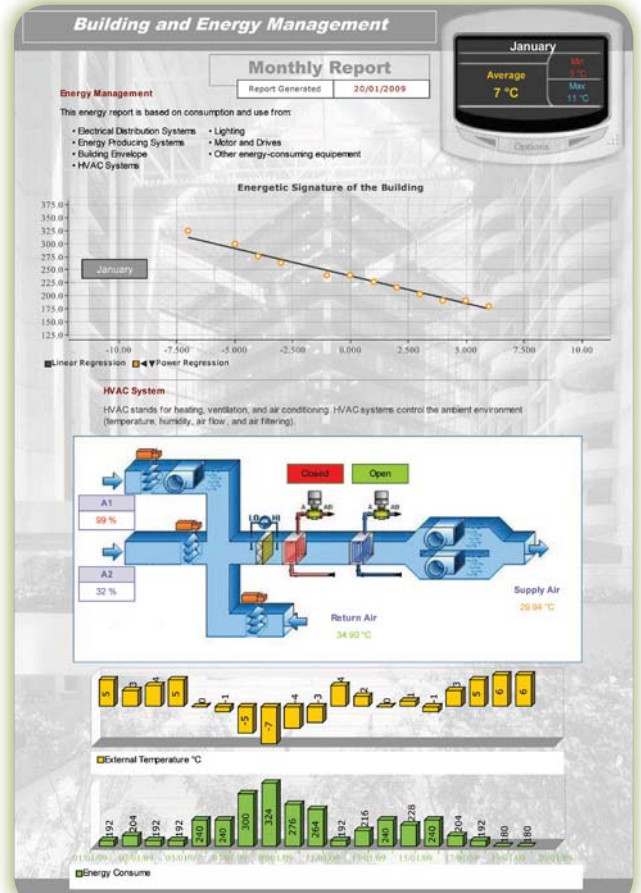
The Wonderware Historian provides out-of-the-box flexibility and ease of use for defining how data is acquired, compressed, stored, archived and retrieved. All data—regardless of its source or time of entry, is fully integrated into a unified and robust information database.

Easily Generate Meaningful Reports

Wonderware software also enables easy creation of reports needed for operations, management and regulatory agencies. These reports can be completely automated to include information such as hourly, daily, weekly, monthly and yearly real-time and cumulative data, along with trending graphics containing minimums, maximums and averages over various time spans.

Decrease Your Total Cost of Ownership

Engineering productivity has often been elusive in the development of supervisory applications. With Wonderware solutions, devices and systems used throughout the environment can be modeled as object templates. For example, a room controller can be an object; once the objects are configured, they can be reused throughout the entire system to easily add additional room controllers as necessary. This approach saves a tremendous amount of time due to the library of applications being tested, debugged, optimized and standardized. The result is simplified maintenance, and significant reductions in the total system's lifecycle costs.



HMI Energy Report

Functions:

- Connectivity to new and existing building automation systems through open standards such as BACnet, Lon Works®, MODBUS and OPC
- Easy integration with multiple equipment manufacturers including HVAC, fire, life safety, security, personnel access, energy management, lighting, elevators, emergency generation, sprinklers and refrigeration
- Solid architecture providing common services based on ArchestrA technology
- Flexible development environment offering advanced remote application-maintenance and reporting capabilities
- Robust, IT-based security model



Adopt the World's Leading Visualization and Control Software

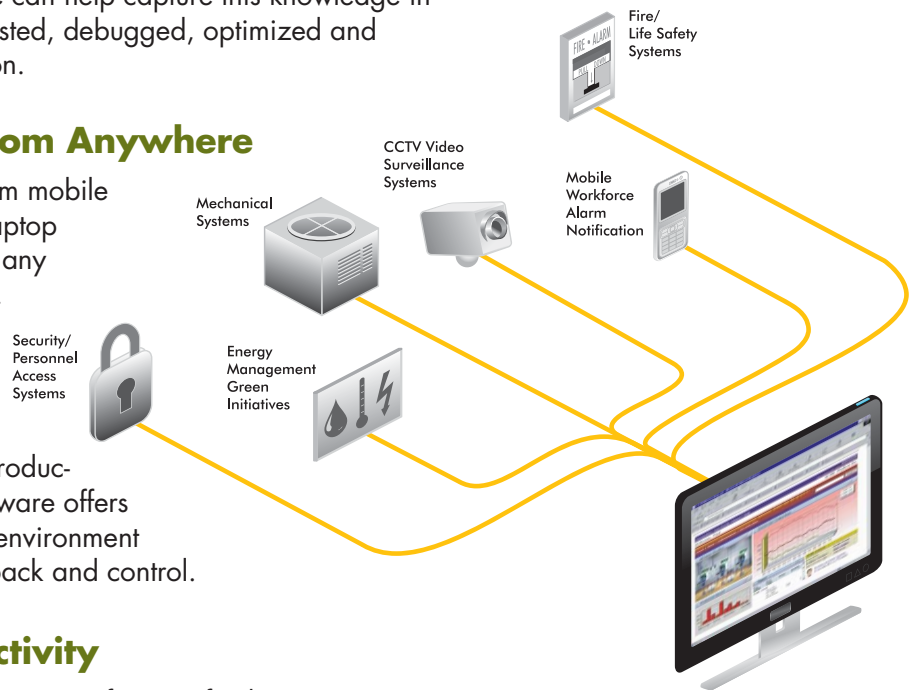
Award-winning Wonderware InTouch® software for visualization and automation control offers outstanding ease of use and simple-to-configure graphics. Powerful wizards and symbol libraries facilitate fast creation and deployment of customized applications, quick connections and swift, efficient delivery of real-time information.

Capture Domain Knowledge

As the most experienced personnel in the operations department prepare for retirement, facilities managers are faced with potentially losing valuable domain knowledge. Wonderware can help capture this knowledge in object templates, which can be tested, debugged, optimized and reused throughout the organization.

Monitor and Control from Anywhere

Applications can be accessed from mobile devices, thin clients, desktop or laptop PCs and over the Internet without any additional configuration changes. This flexible access enables personnel to securely monitor and control their systems from virtually anywhere, and helps enable improved flexibility and productivity of field operations. Wonderware offers an industry-leading visualization environment which gives you immediate feedback and control.



Leverage Open Connectivity

Wonderware recognizes the importance of a new facility monitoring system's ability to connect to existing building automation systems. Wonderware software utilizes the open standards of BACnet, LonMark, Modbus and OPC protocols. Wonderware also offers an extensive selection of device integration servers and protocols. With a history of providing successful software solutions for the facilities management industry for many years, Wonderware offers not only the most popular protocols, but many other standard and specialty protocols as well.

Integration Capabilities:

- Building automation systems
- Transportation control systems
- Industrial control systems
- Fire alarm systems
- Security systems
- Central utility and plant systems
- Energy monitoring / measuring devices
- Business / IT reporting systems
- Relational databases
- Enterprise resource planning (ERP) systems



Here's What Wonderware Customers Say about Wonderware Solutions

"We rely on Wonderware InTouch software to provide fire and medical support in time. We have minimized the time to identify the incident location accurately with graphical presentation and reduce the time to send required support at location."

—**Ajay Choksi, General Manager, Reliance Industries, Hazira**

"The Wonderware Facility Management Solution is stable; it's my automation Timex® watch."

—**Mark Lowell Froehlich, Team NSTec Senior Operations Specialist, Automation**

"The Wonderware solution is a lifesaver. I can't see not having it."

—**Jerry Jagers, Senior Project Manager, The Venetian and Palazzo Resort Hotels & Casino**

"The Wonderware solution is working great. To my knowledge there are no other utilities in the world that have the ability to start 40 megawatts of paralleled power generation located at numerous customer sites with a single mouse click."

—**Mark Osborn, PGE Distributed Resources Manager**

Solution Benefits:

Our Facilities Management Software Solutions can help:

- Lower cost for connectivity and integration by accessing a broad range of standard protocols and devices
- Lower cost through open, competitive choices for products, services, support and maintenance
- Reduce energy consumption and optimize operations
- Enable continuous improvement of facilities operations
- Coordinate environmental and process variables within manufacturing facilities in order to improve quality
- Deliver superior uptime and system reliability
- Provide higher-quality systems with no additional cost
- Reduced operator training requirements

For more information on Wonderware Facilities Management Solutions, please visit www.wonderware.com.



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