

SCADA



Visualize



Analyze



Optimize



WATER & WASTEWATER INDUSTRY CHALLENGES

The Water & Wastewater industry is dealing with a rapid growth in population and housing development, resulting in the need to expand capacity and production levels while dealing with the following tough challenges:

- Heightened requirements for more secure systems
- Limited personnel with growing demands
- Generation of multiple compliance reports
- Increased unattended operations
- Integrated with existing legacy system

Wonderware recognizes the challenges with which your operation is faced: the need to make changes that cost-effectively accomplish your goals as you continue to provide reliable service to your customers and improve profitability. You need a software provider that knows your business and already offers solutions to address these challenges.

EASY-TO-USE, EASY-TO-IMPLEMENT SCADA SOLUTIONS

In the late 1980s, Wonderware pioneered the use of the Microsoft Windows operating system in the automation marketplace. A cornerstone of our success has been our relentless pursuit of easy-to-use systems that are also easy to implement. That's why Wonderware software is used in more than 100,000 sites worldwide.

Capabilities

- Wonderware is an independent software vendor with connectivity to most hardware suppliers
- Easy, efficient software for remote operation, unattended operations and management
- Bulletproof security
- Cost-effective redundancy
- Reduction in total cost of ownership

Wonderware provides an extremely flexible, maintainable and secure Water & Wastewater SCADA software platform. Wonderware

WATER & WASTEWATER

solutions are built on and integrated with a single, open, scalable software architecture that can connect to virtually any automation system, remote terminal unit (RTU), electronic field measurement (EFM) server, programmable logic controller (PLC), database, historian or business system in use today.

Benefits

- Flexible, open, scalable software architecture that will integrate with virtually any legacy system and maintain high production levels
- Simplified maintenance with centralized management and remote deployment of applications
- Simple compliance reporting with automatic report generation
- Unparalleled security to protect your system
- Secure unattended operations with "dial-out" capabilities
- Increased reliability and dependability of SCADA system
- Decreased overall costs

Simplifying Maintenance with Remote Deployment

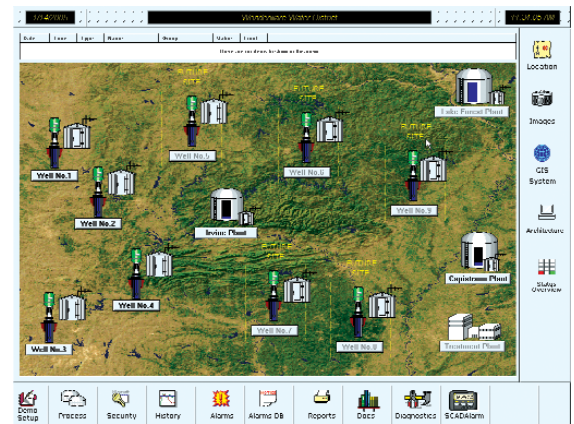
Wonderware provides some of the easiest and most efficient software and tools for secure and remote access, maintenance, deployment, administration and management of SCADA applications for the Water & Wastewater industry. Municipalities and other water providers can easily deploy and manage their automation applications over large networks from a centralized computer, virtually eliminating the chore of installing and maintaining the application on every computer in the system.

Performance Optimization

Most water and wastewater agencies and companies have requirements for SCADA software to integrate into existing legacy software while maintaining maximum production level. Wonderware software can be layered on top of your existing control infrastructure to provide state-of-the-art information management, supervisory control, and production and performance optimization. Once installed, changes to the system can be made online without causing downtime or affecting production quotas.

ENABLING SOLUTIONS FOR:

- Water and Wastewater Treatment
- Water Reclamation
- SCADA and Remote Monitoring
- Distribution and Collection Systems
- Remote Pumping Stations
- Unattended Operations
- Integrated with Plant Control System
- Mobile HMI Solution for Maintenance Personnel



Wonderware provides centralized monitoring of SCADA networks

Unparalleled Security

Security has become an increasingly critical factor and will continue to be an essential to public utility agencies. Wonderware offers robust data-level security, in addition to the standard security features provided by the Microsoft Windows operating system, to protect your control system from cyber or physical risks. Our software provides security ranging from monitoring remote-site logins to program changes at the treatment plant.

One-Click Redundancy Minimizes Costs

Wonderware offers an exceptionally easy-to-use solution for software redundancy in the Water & Wastewater industry. This includes redundancy for SCADA nodes, device communications, historical archiving and HMI displays. With a single click of the mouse, a supervisory node can be backed up by another supervisory or dedicated computer. Utilizing the existing nodes as your system backup can also significantly reduce costs and increase the reliability and stability of your SCADA system.

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Data Collection and Analysis for New and Existing Systems

Wonderware's historian provides out-of-the-box ease of use and flexibility for defining how data is acquired, stored and retrieved. All data, regardless of its source or time of entry, is fully integrated into a unified information database.

Lower Total Cost of Ownership

Engineering productivity has often been elusive in the development of SCADA applications. But with the Wonderware SCADA solution, devices and systems used throughout the SCADA environment can be modeled as object templates. For example, a remote pump station can be an object. Once the objects are configured, they can be reused throughout the entire system to easily add pump stations as necessary. This saves a tremendous amount of time when adding these debugged and tested pump stations or remote terminal units (RTUs) and simplifying maintenance, thus reducing total system life-cycle cost.

Easy-to-Use Report Generation

Wonderware software also makes it extremely easy to create the reports needed for regulatory agencies. Regulatory reports can be completely automated to include compliance information such as hourly, daily, weekly and monthly data, along with trending graphics that contain minimums, maximums and averages over various time spans.

Superior Operator Visualization

Wonderware's world-famous, award-winning software for visualization and automation process control offers outstanding ease of use and simple-to-configure graphics. Powerful wizards and the new Wonderware SmartSymbols enable users to quickly create and deploy customized applications that connect and deliver real-time information.

Monitor and Control from Anywhere

The applications can be accessed from mobile devices, thin clients and computer nodes and over the Internet without any additional configuration changes, enabling users to monitor and control their systems from anywhere. This improves flexibility and productivity of field operations.

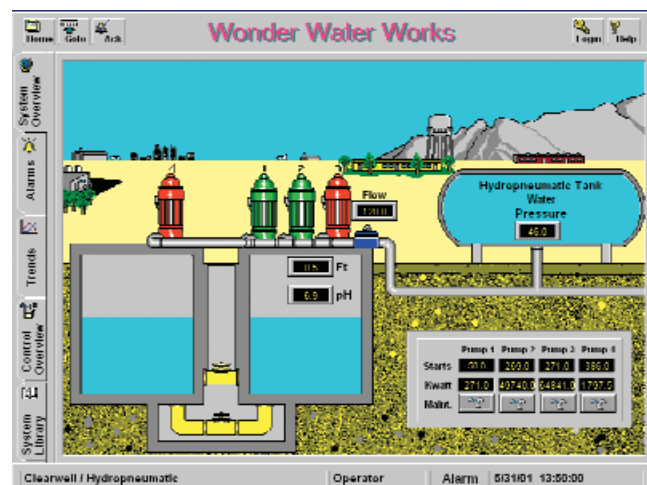
Intelligent Pump Stations

Wonderware also offers an intelligent solution for pump-station operator panels based on fully functional computers. These intelligent operator panels enable the pump station to have full connectivity to the

master control station while maintaining one software look and feel from the HMI level to the operator panels.

Secured and Unattended Operations

Users can monitor and acknowledge alarms, change set points, hear exact values of variables and operate equipment via telephone. Messages can be sent to pagers, telephones and personal communication systems via e-mail, making acquisition of real-time information convenient and easy.



SmartSymbols enable the creation of templates to be reused in applications

Mobile Information Management Increases Operator Productivity and Efficiency

Expand your operator's productivity by enabling mobile capabilities. With a SCADA system, maintenance personnel are often deployed to the field to gather data or troubleshoot problems. A mobile HMI tablet can increase productivity by facilitating mobile visualization and control without being tied to a station or a location.

Durable and reliable, the Wonderware Industrial Tablet comes pre-integrated with Wonderware's industry-leading software that has been enhanced for mobile communications.

Unlimited Scalability

As the population and new residential development increase, the municipalities are required to constantly expand capacity and increase coverage. Wonderware's SCADA applications are flexible and scalable enough to enable companies to expand and add extra stations, such as RTUs and PLCs while retaining the value of earlier engineering investments and efforts.

Device Communication

Wonderware recognizes the importance of a new SCADA system's ability to connect to existing field devices such as RTUs and PLCs. By working in combination with more than 100 third-party product developers, Wonderware offers an extensive selection of device integration servers and protocols in the industry. Having provided successful software solutions for the Water & Wastewater industry for many years, Wonderware offers not only the most popular protocols - such as Modbus, Bristol Babcock and Fisher ROC - but also many other standard and specialty protocols.

OPEN-SYSTEM CONNECTIVITY

- Remote Terminal Units
- PLC Systems
- DCS Control Systems
- Tank Measurement Systems
- Flow Measurement Systems
- Business Reporting Systems
- Relational Databases
- ERP Systems
- Maintenance and Asset Management

Wonderware: The Best Choice for SCADA Solutions

Wonderware is an industry leader in providing open software solutions to the automation marketplace. Wonderware's comprehensive and field-proven SCADA and Performance and Production Management software capabilities empower users to improve operational efficiencies and quality while leveraging the customer's existing networks, hardware, software and applications.

Wonderware provides an open architecture that's easy to expand and lowers a business' total cost of ownership. In addition, we're the only software provider with years of experience integrating multiple systems, devices and enterprise systems for thousands

of water and wastewater companies around the world. But don't take our word for it - consider the experience of others by reading the following real-world success story.

Yellow River, China

The Yellow River Project is a major source of water to 100 million people in nine Chinese provinces. A Wonderware SCADA solution enabled integration of existing infrastructure of software and hardware. Furthermore, the reusable nature of the application objects created during the system's development will save the plant additional hours and expenses in ongoing system maintenance and expansion.

"The advanced functionalities of the ArchestrA technology, such as reusable objects, modularized technology and remote deployment...made it possible for us to complete the first phase of this system in three months which includes 43 sluice stations," said Mr. Zhu Chenhua, director of the Yellow River Conservancy Commission's information center.

GLOBAL NETWORK OF SUPPORT AND SERVICES

Wonderware is also committed to building strong customer relationships by providing a global network of system integrators. Wonderware has invested in a Certified System Integrator Program for SIs with expertise in SCADA solutions. This program helps Wonderware offer flexible solutions that suit customers' individual application needs.

In addition, Wonderware Technical Support and our worldwide network of Certified Support Providers (CSPs) provide consistent, high-quality, localized service in more than 16 languages.

For more information go to:
www.wonderware.com/solutions/SCADA

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