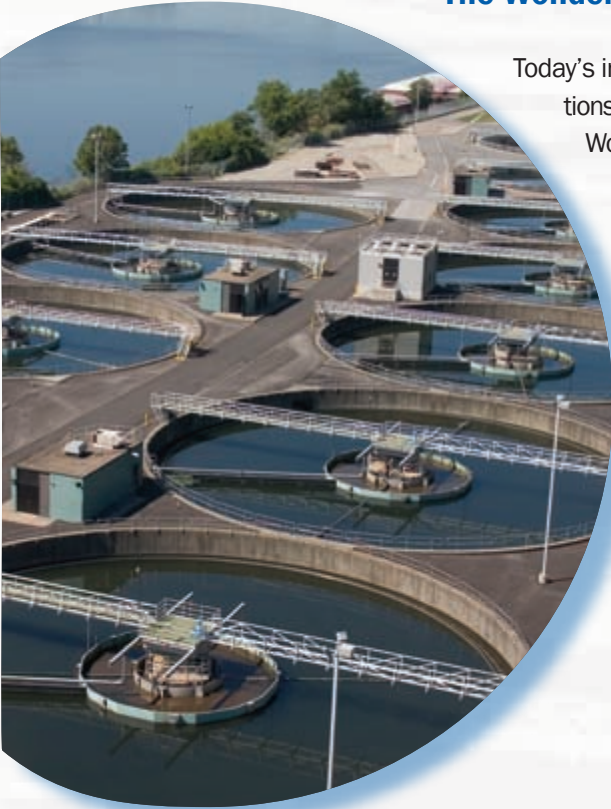


Wonderware Water and Wastewater Industry Solutions



Software Solutions for Real-Time SuccessSM

The Wonderware Difference



Today's increasingly demanding municipal and industrial water and waste management operations environment requires an integrated and comprehensive solution.

Wonderware offers a refreshing alternative to traditional HMI/SCADA Systems through the Wonderware System Platform built on Archestra Technology.

Wonderware software provides the integration of applications across all departments and functions to create a comprehensive real-time operations management environment built for the modern municipality.

Wonderware successfully leverages your existing networks, hardware, software and applications, and integrates with a wide range of water utility applications.

- GIS Systems with real-time data for actual water and wastewater system status
- Asset Management and maintenance applications with actual equipment usage data for more accurate maintenance scheduling
- Simulation Applications with historical operating data to build an accurate model
- Laboratory Systems with ability to react in real-time to quality problems
- Optimization Applications with the ability to provide sophisticated control algorithms

With an installed base of over 28,000 software licenses in the water and wastewater industry, you can count on Wonderware for your Municipal Operations Management needs.

Key Features

- Easy to configure, easy to change
- Integrates with virtually any application
- Pre-configured set of applications templates and graphics specifically for water and wastewater
- Local support through Distributors and Systems Integrator Network
- 20-year commitment to one-click software upgrades
- Consistent reporting from a single platform
- Built in, easily configurable operational security
- Superb software deployment capabilities

Key Benefits

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

Industry-Specific Platform Built for Municipal and Industrial Manufacturing Water and Wastewater

Wonderware provides a single, scalable, and unified software platform for integrating real-time information with all of your business critical operations applications in the municipal environment such as industrial automation, asset management and information management. It provides a common and strategic industrial application services platform on top of virtually any existing system.

Savings in Operations Management

Wonderware reduces staff time in manual data gathering, reduces the number of site visits and improves the automation of reporting for EPA and regulatory compliance. Expanded operations are possible with the same staff through monitoring of storage facilities, remote control, visibility and alarm notification if a problem occurs. Unmanned and after hours-operations are enabled through supervisory automation, which drives consistency and quality of operations. In addition, synchronization of water treatment systems with overall manufacturing operations provides greater operations efficiency for manufacturing environments.

Advanced Systems Connectivity

Wonderware software architecture connects to virtually any automation system, remote terminal unit (RTU), programmable logic controller (PLC), database, historian or business system in use today. The Wonderware water industry solution has the ability to integrate dissimilar municipal applications and business functions for a Unified Operations Management Environment.

This provides the real-time data integration needed to improve operations, reduce costs and drive consistent water quality. Wonderware provides the means to unlock the hidden potential in the people, equipment, and work processes you already have. In addition, Wonderware continues its tradition of offering some of the most user-friendly, and efficient tools and software designed to promote business and operational success.

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. All of these solutions are deployed on an enterprise-ready Microsoft technology stack.



Operations Overview



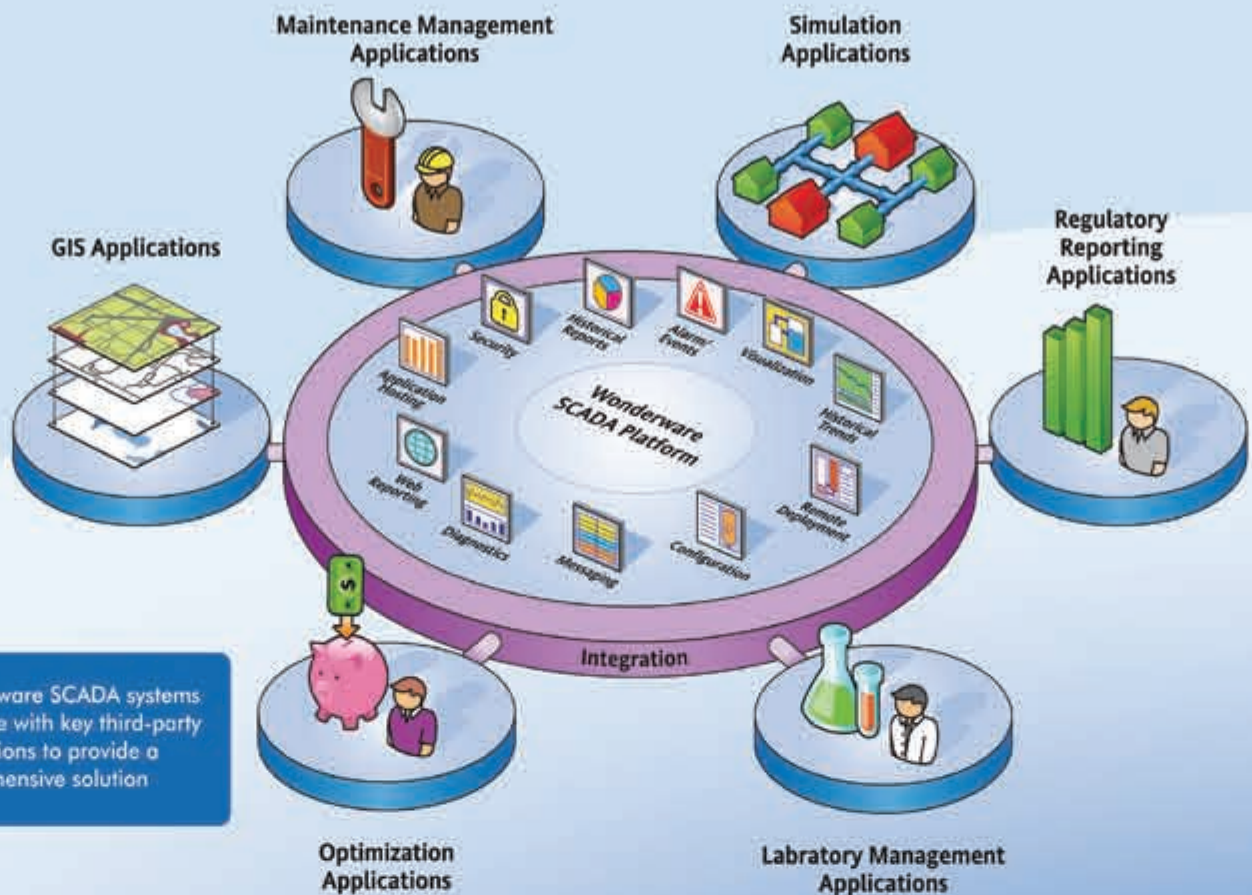
Single Station

Functions and Capabilities

Wonderware bridges any data source, and transforms raw data and events into meaningful information to reduce operations cost, identify hidden inefficiencies and enable more cost effective operations.

- | | |
|---------------------|----------------------|
| Historical Reports | Diagnostics |
| Alarms and Events | Messaging |
| HMI/Visualization | Device Communication |
| Historical Trends | Analysis |
| Remote Access | Development |
| Configuration | Web Reporting |
| Supervisory Control | Security |

Integrated Real-time Operations Management



Wonderware SCADA systems integrate with key third-party applications to provide a comprehensive solution

Easy to Configure, Easy to Change

Wonderware provides a single, scalable, and unified software platform for integrating real-time information with all of your business critical operations applications in the municipal environment such as industrial automation, asset management and information management. It provides a common and strategic industrial application services platform on top of virtually any existing system.

Worldwide Support

Wonderware engages a worldwide network of Distributors and Systems Integrators, including certified solutions providers, VARs and OEMs to provide local, personalized support. This gives you flexibility—both in the way solutions are built, and in your choice of who implements and maintains your system.

Work Smarter with Integration of Actual Equipment Use with Computerized Maintenance Management Systems

Here the concern is how to integrate actual equipment data with Maintenance Systems to avoid calendar-only scheduled maintenance. Wonderware provides the ability to get real-time and actual data needed to generate work orders. This also provides a coordinated effort between operations and maintenance functions for better management.

Historical Data to Feed Simulation Applications for Planning

Many municipalities require a good historical performance record under different conditions to feed simulation applications for water models used for water network design in extreme conditions, disaster, etc. Wonderware can deliver the history necessary to validate simulation model and tune it to reflect real conditions.

Access Simple but Powerful Reporting Capabilities

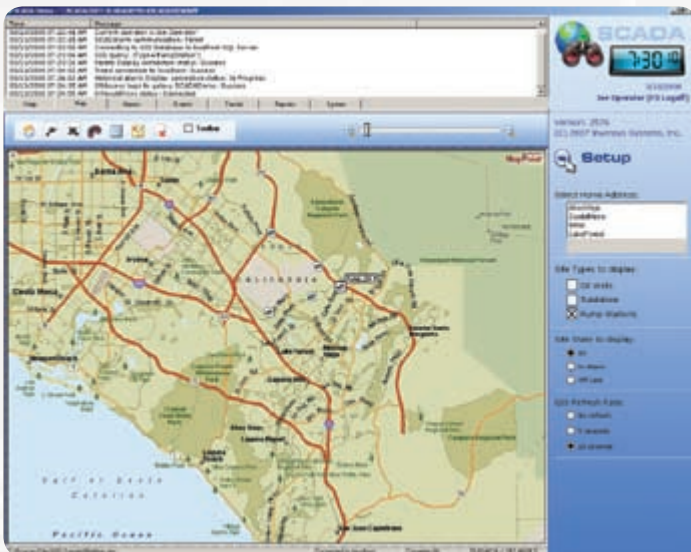
Wonderware enables you to address regulatory and government periodic reporting requirements to different water agencies as well as internal reporting for your operations with the generation of multiple compliance reports. Wonderware provides a way to share data, perform calculations and store historical data in an easy to access repository.

Integration to LIMS for Quality Operations

Laboratory Information Management Systems (LIMS) range from simple home-grown databases to large software packages that coordinate thousands of samples. Performing regular sampling and testing of water is important. Wonderware provides the ability to bring LIMS and SCADA data together, which provides increased response time to potential quality problems.

Optimization for Energy Savings

Increasing energy costs are driving an additional demand for energy optimization techniques, which involve the improvement of pumping inefficiencies and the adjustment of water inventory movement to better match production with user demand. Wonderware provides historical data for demand forecast needs and allows the easy analysis of operational data. Twenty-four hours a day, Wonderware software keeps track of starts and stops and overall pump usage. This can be used to adjust schedules to match demand.



GIS Integration Marries Asset Location Data with Real-time Status

Through Wonderware, display of SCADA on Geographical Information Systems (GIS) screens or GIS information on the HMI SCADA can easily be accomplished. Wonderware enables users to solve problems in going back and forth between SCADA and GIS by tying static data such as asset location with status info in the SCADA system. This provides a key link between supervisory operations and business decisions.

The Wonderware Approach

Wonderware Addresses Issues the Industry Faces Now and in the Future:

- Business Factors
- Regulatory Requirements
- Aging & Failing Infrastructure
- Source Water Supply
- Workforce

Aging and Failing Infrastructure

Many water systems in bigger cities are getting older and starting to fail. Wonderware software provides a choice in augmenting existing automation systems which does not require the replacement of aging equipment. Wonderware software can be cost effectively installed on top of existing PLCs and HMI products to provide more modern operation management systems, which provides an advanced visualization of process information, application integration, remote monitoring, easy reporting, alarm detection and incidence avoidance.

Source Water Supply

While Wonderware can't make water appear where there is none today, it can help you conserve water resources and assist with the exploitation of new resources. This includes assisting with the control and automation of new technologies such as desalinization and expanded reclamation and treatment facilities. Wonderware software is recognized across the System Integrator community as a powerful technology platform for automation and information applications.

Business Factors

The water and wastewater industry is dealing with a rapid growth in population and housing development, resulting in the need to expand capacity and production levels. Financing of repairs, replacements and upgrades of water systems is becoming a key concern. Included in these costs is the engineering and maintenance of the HMI/SCADA system, which must continually be modified. Wonderware has developed its software to allow customers to develop "standardized" engineering and graphics that can be changed centrally and deployed to the running application environment, saving countless hours of engineering time.

Regulatory Requirements

The water industry demands more robust systems. Wonderware helps ensure that critical data required to generate the necessary regulatory reporting is collected and stored regardless of local networking or other communication issues that may arise. Utilizing Wonderware software prevents loss of historical data, thereby protecting the water and wastewater operator from the potential fines, penalties and safety issues that such data loss may create.

Workforce

It is estimated that in the next 10 years, 40% of the qualified workers in the water industry are expected to retire, leaving the industry with a severe gap in operating experience.

This results in the need to create a higher level of distinction for workers to attract new personnel while at the same time controlling salary and training costs. With Wonderware software the operator only needs to learn how the system works for one facility; as the application works across all facilities, thereby reducing the cost and time required for training. Wonderware software is extremely powerful yet very easy to use.

Utilizing standard displays, operations professionals can easily and remotely control and monitor the status of operational assets and equipment. By creating an environment that is advanced and simple to work in, new employees are much more satisfied with their jobs; which has been shown to lead to improved moral and retention.



Here's What Customers Say about Wonderware Solutions

"The advanced functionalities of the Arcestra 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."

—Mr. Zhu Chenhua, Director of the Yellow River Conservancy Commission's information center, China



"The distributed nature of the plant presented unique challenges. It's easy to lose sight of the fact that all components are part of the same facility and should be treated as such. Wonderware Application Server's 'galaxy' and single namespace concept helped achieve this."

—Paulo De Sousa Gomes, Engineering Director, Ram-Tec System, South Africa

"Carson City has realized an increase in productivity, and a 50% reduction in staff time as a result of Wonderware software."

—Tom Hoffert Operations Manager, Carson City Public Works, Nevada, USA

Go to wonderware.com or contact a Wonderware Distributor today to learn more.

"With the new Wonderware system... we estimate an average annual return of \$300,000 on the current investment."

—Ray Gonzales Long Beach Water Department Telecommunications Manager, Long Beach, California, USA

Build Solutions with Wonderware Software

- Water Treatment
- Water Reclamation
- Flood control
- Real-time Information Integration
- Utility application integration
- SCADA and Remote Monitoring
- Distribution and Collection Systems
- Remote Pumping Stations
- Unattended Operations
- Mobile HMI Solution for Maintenance Personnel

"The system allows us to quickly locate errors and other events in the sewerage system. This enables us to prepare our service activities as best as possible and to dramatically reduce the time required for maintenance on site, or even to avoid having to do work locally altogether."

—Robert Erndt, Sewage System Manager, City of Emsdetten, Germany



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