The Wonderware Approach

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 can be cost effectively switched on top of existing PLCs and HMIs 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 now, it can help conserve water resources and assist with the exploitation of new resources. This includes assisting with the control and automation of new technologies such as desalination and expanded reclamation and treatment facilities. Wonderware software is recognized across the Systems Integrator community as a powerful technology platform for automation and information applications.

Business Factors

The water and wastewater industry is dealing with a rapidly growing need for more personnel and new equipment usage data for more accurate maintenance scheduling. 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 the system works for one facility, as the applications works across all facilities, thereby reducing the cost and time required for training. Wonderware software is automatically powerful and yet very easy to use. Utilizing standard displays, operators professionals can easily and remotely control and monitor the status of operational and maintenance 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 ArchestrA technology, such as invisible objects, modellized technology and remote deployment made it possible for us to complete the first phase of this system in three months, which includes all 43 sites stations.”

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The Wonderware Difference

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

- Q5 Systems with real-time data for active water and wastewater systems
- Asset Management and maintenance applications with actual inventory, burn rates and maintenance history
- Simulation Applications with historical operating data to build an academic environment
- Laboratory Systems with ability to react in real-time to quality problems
- Optimization Applications with the ability to provide sophisticated control algorithms

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Key Features

- Easy to configure, easy to change
- Integrates with virtually any application
- Preconfigured set of applications, templates and graphics specified for your business
- Local support through Distributors and Systems Integrator Network
- Customized to the needs of your organization
- Easily modify the system to fit your needs

Key Benefits

- Reliable, easy to configure and use
- Cost-effective and flexible
- Enhanced reliability and scalability of SCADA system

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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 in use today. The Wonderware water industry solution hasWonderware provides the means to unlock the hidden potential of storage facilities, remote control, visibility and alarm notification if a problem occurs. Unmonitored and automated 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 operating efficiency for manufacturing environments.

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 average facilities, remote control, visibility and alarm notification if a problem occurs. Unmonitored and automated 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 operating efficiency for manufacturing environments.

Integrated Real-Time Operations Management
The Wonderware SCADA control interfaces with nearly every imaginable automation, database, historian or business system in use today. The Wonderware water industry solution has in use today. The Wonderware water industry solution hasWonderware provides the means to unlock the hidden potential of storage facilities, remote control, visibility and alarm notification if a problem occurs. Unmonitored and automated 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 operating efficiency for manufacturing environments.

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 integrates a worldwide network of Distributors and Systems Integrators, including Certified Solutions Providers, VARs and OEMs to provide localized, 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 as a basis for forecasting and planning for future water network design in extreme conditions, disaster, etc. Wonderware can help the history necessary to validate simulation model and it can be used in 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 homegrown databases to large architectures that coordinate thousands of samples. Performing regular sampling and testing of water is important. Wonderware provides the ability to bring IMS 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 efficiencies 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 start and stops and overall pump usage. This can be used to adjust schedules to match demand.

Historical Reports
Everything You Need to Know About Historical Data
- Historical Reports
- Alarms and Events
- HMI/Visualization
- Historical Trends
- Remote Access
- Configurations
- Supervisory Control

Diagnoses and QM Management
- Device Communication Development
- Web Reporting Security
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 logic controller (PLC), database, historian or 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.

Integrated Real-Time Operations Management

Wonderware 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 platforms on top of virtually any existing system.

Functions and Capabilities

functions and capabilities enable more cost effective operations. 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.

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

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GIS Integration Marries Asset Location Data with Real-Time Status

Through Wonderware, display of SCADA on Geographic 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 enter data such as asset locations with status info on the SCADA system. This provides a key link between supervisory operations and business decisions.
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 functionality to integrate dissimilar municipal applications and transform raw data into meaningful information. It provides a single, scalable and unified 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.

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- Configuration
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- Diagnostics
- Messaging
- Device Communication
- Development
- Web Reporting
- Security

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Water and Wastewater Industry Solutions for Water & Wastewater

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

- GIS Systems with real-time data for asset and water/wastewater management
- Asset Management and maintenance applications with actual equipment usage data for more accurate maintenance scheduling
- Flexible, open, scalable software
- Simple compliance reporting with automatic report generation
- Decreased overall system costs
- Simplified maintenance with central and remote deployment of applications
- Unplanned security to protect your system
- Secure unattended operations with enhanced reliability and scalability

Wonderware Industry Solutions for Water & Wastewater

Aging and Failing Infrastructure

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The Wonderware Approach

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 software to allow customers to develop “standardized” engineering and graphics that can be changed quickly and deployed to the running application environment, saving countless hours of engineering time.

Regulatory Requirements

The water industry demands more rapid systems. Wonderware software is recognized by crucial data requirements 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 cause.

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 with the same time controlling salary and training costs. With Wonderware software this 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 automatically powered on yet very easy to use. Utilizing standard displays, operators professionals can easily and remotely control and monitor the status of operational 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.

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—Ray Gonzales Long Beach Water Department Operations 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
- Hydro Management Systems
- Remote Pumping Stations
- Underformed Operations
- Mobile HMI Solutions for Maintenance Personnel

Wonderware Industry Solutions for Water & Wastewater

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Key Features

- Easy to configure, easy to change
- Integrates with virtually any application
- Pre-defined set of applications
- Remote monitoring, easy to use
gui, and a single nscope concept helped achieve this.

—Paulo De Souza Gomes, Engineering Director, Barro Soyo System, South Africa

“The system allows us to quickly locate problems even to avoid important 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.”

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

“Carson City has realized an increase in productivity, a 35% reduction in staff time as a result of Wonderware software.”

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

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Wonderware Addresses Issues...
The Wonderware Approach

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 improvements and upgrades of water systems is becoming a key concern. Included in these costs is the engineering and maintenance of the plant, which must continually be modified. Wonderware has developed software to allow customers to develop "standardized" engineering and graphics that can be changed centrally and deployed to all facilities involved in the operation of water and wastewater systems, thereby reducing costs and improving efficiency.

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 location. This eliminates errors and other events in the sewerage environment due to loss of historical data, thereby protecting the water and wastewater operator from liability. Using Wonderware software prevents loss of historical data, thereby protecting the water and wastewater operator from liability.

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 skills gap needs to be filled at a rate that matches the current workforce. Wonderware software helps solve this problem by using the system's work orders as one facility, as the engineer works across all facilities, thereby reducing the time and resources required to train personnel. Wonderware software is self-paced and allows for the creation of a comprehensive real-time operations management environment.

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Key Benefits
- Flexible, open, scalable architecture that integrates with virtually any system, application or data source
- Simple compliance reporting with automatic result generation
- Decreased overall system costs
- Simplified maintenance with normalized and remote deployment of applications
- Unchecked security to protect your system
- Secure wastewater operations with "no single point of failure" capabilities
- Increased reliability and dependability of SCADA system

Key Features
- Easy to configure, easy to change
- Integrates with virtually any application
- Pre-packaged sets of applications for control algorithms
- Standard compliance reporting
- Local support through Distributors and Systems Integrator Network
- 20-year commitment to one-click software upgrades
- Consumer support from a single platform
- Robust, easy-to-use control center
- Superior software deployment capabilities

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www.wonderware.com