

ArchestrA Implementation

Leading Building Materials Company

The customer wanted to upgrade to the ArchestrA® platform and enable local and corporate engineers to utilize their HMIs online from tablets and phones. We worked with the customer to complete the upgrade and implement the web portal.



BUSINESS NEED

The customer wanted to upgrade to the ArchestrA® platform from older Wonderware®, enabling them to utilize their HMIs online from tablets and phones. The goal was to provide both the local engineers and corporate engineers with visibility to the plant data via a web portal. Most of their displays (800+ screens) hadn't been changed in more than 14 years. Some of their systems were running stand-alone InTouch® version 7.1. The customer had multiple Wonderware applications that were all on different versions, which required different versions of development software and licensing.

OUR SOLUTION

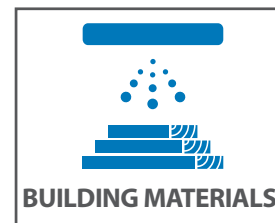
The solution provided by Cates Control Systems included:

- Upgrading the customer to the ArchestrA platform
- Working with the customer on a process to cut over to the new system area by area over a 3 to 4-month period while maintaining plant continuity
- Recommending the use of Scripting and Quick Functions to avoid reworking every screen
- Redundant Virtualized Windows Server® 2012 R2 Servers
- The addition of custom Core G scripting to utilize redundant PLC failover and Redundant IO Server failover for a zero-outage lapse

CUSTOMER RESULTS

- Creation of a centralized development location simplified deployment and made it easier to maintain source control with change history
- All customer applications were merged into one centralized application – including an automatic way to provide each client with the specific screens required to operate their local equipment
- Addition of IO Server redundancy provided each machine with instant failover in the event that parts of the network are lost or down

Need help implementing ArchestrA or online HMI access? Contact us for an estimate.



CATES CONTROL SYSTEMS

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Equipping Manufacturers to Succeed Globally

Industrial Network Visualization

Leading Building Materials Company

The customer was facing significant downtime, and wanted an integrator to upgrade their industrial network and design complex visual displays. We worked with the customer to successfully modernize their network and build new custom displays.



BUSINESS NEED

The customer's existing industrial network needed to be upgraded. The configuration was a simple star network with very little VLAN segregation. The networking devices consisted of switches and hubs from a variety of different manufacturers. The network switches would consistently drop ports and devices would stop communicating, causing significant downtime and difficulty troubleshooting to determine whether it was a device or an actual networking issue.

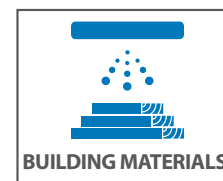
OUR SOLUTION

The Cates Control Systems team went on-site and worked with Rockwell Automation to successfully upgrade the customer's equipment. The new design incorporated all Allen-Bradley replacements, including multiple Stratix® Switches. The team also built status displays of the new dual ring network for the customer using Wonderware® ArchestrA® graphics to provide them with a graphical view of the information they wanted to see. The displays make it look almost as if the actual device is right in front of the user.

CUSTOMER RESULTS

As a result of this project the customer experienced improved communication and reliability. In addition, this project has also established a higher comfort level between the customer's operations group and their internal engineering/maintenance. When a call for help needs to be made, they feel there is not as much time lost trying to figure out if IT or Maintenance needs to be involved.

Need help with industrial network modernization?
Contact us for an estimate.



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