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Inductive Automation Ignition as SCADA platform for Water and Wastewater Treatment Processes

Ignition is an industry software platform for developing visual applications for the purpose of an HMI, SCADA or as a general data acquisition and reporting service. Ignition comes as a modular software package that can be customized to the customers' needs whether it is a large- or small-scale application. This allows the cost to be minimized by not forcing the customer to purchase software they don't need.

We were tasked with the complete migration of a large existing SCADA system originally developed in the Wonderware Software Suite to the Ignition platform. This included: server configuration and customization, database conversions, data historian conversions, screen conversions, tag database conversion, security conversions, system alarm and response, and data reporting. Additionally, we were tasked with the creation of a mobile client that could be utilized on a series of IPads and Tablets.

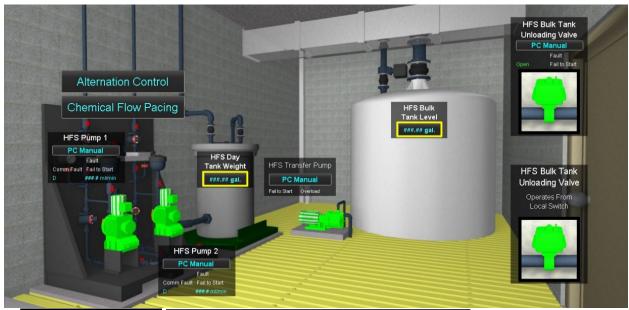
The Wonderware conversion required the in depth understanding of the Wonderware software suite to allow us to reverse engineer the system in place and be able to deliver a solution that not only replaced the existing system but would also exceed the current performance and capabilities.

Below are screenshot examples for the system:

The control screens indicate device status through color animations and highlighted areas of concerns with flashing border colors. Manual pump and valve controls are done via popups that display the controls and extended information about the device.

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Tank fill animitions appear as overlays with slideable High and Low indicators.



Trending and reporting is done through a customized chart that allowed notes for events to be entered and logged.

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Summary:

OTI worked with the customer's IT department to improve on the system security user control by utilizing an active directory to centralize user accounts. This greatly simplified the user account control in the application.

OTI delivered a solution while working closely with the customer to empower the customer with the knowledge and capabilities of the new system with on-site training, support and remote support.



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