Water Filter and Purification System Manufacturer Implements MES Upgrades and Enhancements

A manufacturer of water filtration and purification products partnered with MAVERICK to upgrade their existing MES software and implement functional enhancements to improve operations.

Objective

MAVERICK was tasked with performing a risk analysis and deployment strategy for a system upgrade to the customer's existing installations of Rockwell Automation FactoryTalk ProductionCentre. Along with the upgrade, MAVERICK was to design, develop and implement enhancements to the manufacturing execution system (MES) application to add functionality to improve operational efficiency and data maintenance.

Results

After the enhancements were deployed, the customer was able to track genealogy of material lots and automate aspects of material usage previously handled manually by operators. A system for transferring data from disparate systems was implemented to consolidate and easily manage production data.

Solution

Existing applications built using FactoryTalk® ProductionCentre® by Rockwell Automation were analyzed to identify and alleviate issues for the planned system upgrade.

Enhancements were implemented by the MAVERICK team to allow the tracking of raw material usage.

Functionality was added and user interfaces were developed to support the introduction of a new type of material, an aggregate of two or more unique materials.

A system for data transfer between two installations of ProductionCentre was developed to handle bidirectional communication of build-time and runtime data.

The team consolidated data management to allow users to add, edit, delete and purge data existing within two different ProductionCentre production databases from a single user interface.

Collaboration between team members using SharePoint and strong project management oversight kept resources located in separate regions of the United States working as one unified team.

Project deliverables were maintained under revision control throughout the project's execution. SharePoint was used for documentation and Mercurial was used for source code.

After the project's execution, the lessons learned were documented, standards and guidelines were updated and the methodology for the execution of future projects was refined.

The MAVERICK Difference
MAVERICK assembled the perfect-fit team using technology and subject matter experts from offices across all regions of the United States to ensure the customer's needs were addressed effectively, efficiently and successfully.

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