

ENGINEERED SOLUTIONS

CASE STUDY

Building a Custom SCADA System for Streamlined Automation



A FAMILY OF COMPANIES



INTRODUCTION, CHALLENGES & OBJECTIVES

This case study focuses on Relevant Industrial's successful collaboration with a leading manufacturer of high-power transmission equipment and solutions located in New England, Massachusetts.

CHALLENGES

1

Dissimilar
Products

2

Limited
Automation
Resources

3

Islands of
Automation

OBJECTIVES

1

Standardize
Automation

2

Centralize
Monitoring

The company faced challenges related to the standardization of their automation systems, particularly in dealing with multiple complex and dissimilar products from numerous OEM vendors. Their primary objectives were to streamline their automation, centralize their data monitoring and control, and optimize the efficiency of their production lines.

CHALLENGES

01 DISSIMILAR PRODUCTS

The company used various manufacturers (Honeywell, Allan Bradley, Red Lion, Siemens, etc.) and vendor components for their automation systems, leading to complexity and a lack of standardization.

02 LIMITED AUTOMATION RESOURCES

Their automation team was small, initially consisting of just one person, making it difficult to manage the diverse automation solutions.

03 ISLANDS OF AUTOMATION

Each production unit operated as a separate entity, lacking integration and a central monitoring system. This isolated setup hindered data visibility and troubleshooting efficiency.

OBJECTIVES

01 STANDARDIZE AUTOMATION

The company was looking for a way to simplify their automation systems to reduce complexity, minimize the learning curve for their team, and accelerate troubleshooting.

02 CENTRALIZE MONITORING

They sought a single controlling SCADA system to monitor and control their multiple production lines and numerous automation islands that would provide real-time data access and remote management capabilities.

SOLUTION

1

Product Knowledge

2

Proof of Concept

3

Customized Report

Relevant Industrial proposed a comprehensive solution to address these challenges:

01 PRODUCT KNOWLEDGE

Relevant Industrial leveraged its extensive product knowledge and industry expertise to guide the manufacturer through the process. They provided insights and recommendations tailored to the company's unique requirements.

02 PROOF OF CONCEPT

A "lunch and learn" session was organized to demonstrate the capabilities of Emerson's Movicon software, emphasizing its compatibility with various equipment and its ability to centralize data. This hands-on approach allowed the manufacturer to gain confidence in the solution.

03 CUSTOMIZED SUPPORT

Relevant Industrial offered personalized support at each stage of the evaluation, deployment, and ongoing management of the SCADA system. They ensured that the customer's needs were met, addressing any questions or concerns promptly.



RESULTS

1

Streamlined
Automation

2

Centralized
Monitoring

3

Efficiency
Gains

The implementation of Relevant Industrial's solution yielded significant results:

01 STREAMLINED AUTOMATION

By standardizing an overarching automation system across the islands of automation, the company reduced complexity and improved the effectiveness of the automation team. This enabled more efficient troubleshooting and system management.

02 CENTRALIZED MONITORING

The adoption of the Movicon SCADA system provided a centralized platform for monitoring and controlling their production lines. This improved data visibility and allowed for remote management and enhanced operational efficiency.

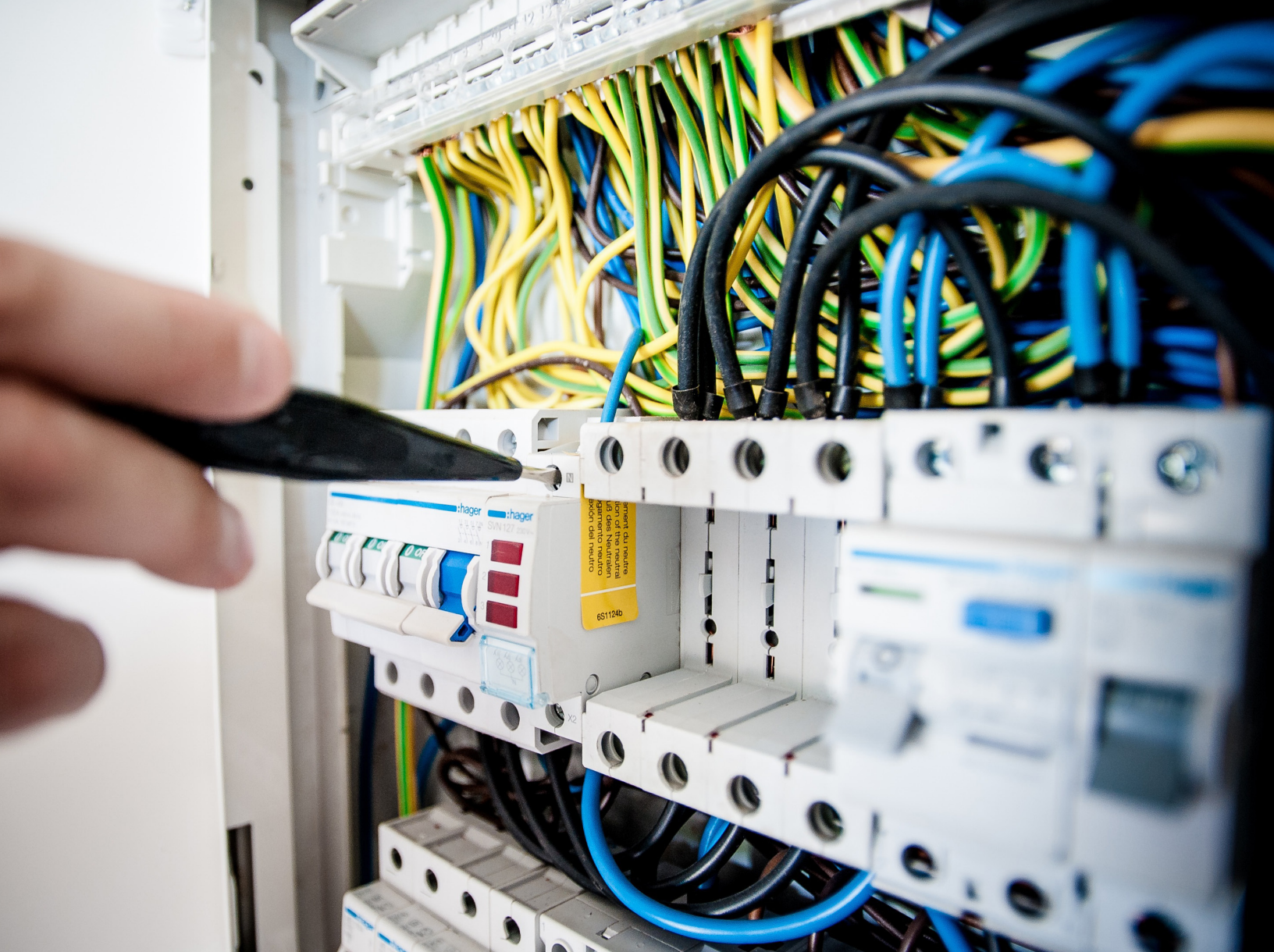
03 EFFICIENCY GAINS

With standardized automation and centralized monitoring, the company realized efficiency gains in their production processes. Troubleshooting and maintenance times were reduced, leading to increased uptime and productivity.



CONCLUSION

Relevant Industrial demonstrated the value of expertise and tailored support in addressing complex automation challenges within the industrial manufacturing sector. By providing a solution that streamlined automation, centralized monitoring, and optimized production efficiency, Relevant Industrial empowered their client to improve their operations and meet their business objectives.



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