



# TRANSFORMING TEXTILE MANUFACTURING: A Seamless Fusion of MES, BAS, and Ignition Elevates Production Efficiency and Smart Decision-Making



*In this project, a leading textile manufacturer collaborated with DSI Innovations to revolutionize their production monitoring by integrating Ignition with their Manufacturing Execution System (MES) and Building Automation System (BAS). This cutting-edge solution provides real-time, accessible data visualization across various devices, significantly enhancing decision-making and operational efficiency. The seamless integration of these technologies marks a pivotal step into a new era of digital productivity for the manufacturer, showcasing transformative outcomes such as actionable production and building metrics, mission critical reporting, and total data utilization.*

## ABOUT DSI



DSI Innovations is the premier building automation, machine, process, discrete and data automation company.

Our exceptionally experienced teams of systems developers are led by the industry's most outstanding team leaders and project managers. Their intimate knowledge of what it takes to complete projects and handle every detail allows us to tackle your toughest challenges head-on.

We relentlessly execute with constant communication throughout your projects, and stand with you until the job is fully completed per your expectations. And then our meticulously reliable (24/7) field service team is there to insure minimal downtime and maximum corporate profitability.



## THE CHALLENGE

A textile manufacturer was facing difficulties with effectively monitoring and managing its various production systems. They had no standard interface to visualize the plant data effectively for both operators and management. Additionally, the manufacturer was looking to upgrade its HVAC system monitoring and alarming capabilities to improve operational efficiency and reaction time.



## THE ACTIONS

A textile manufacturer was facing difficulties with effectively monitoring and managing its various production systems. They had no standard interface to visualize the plant data effectively for both operators and management. Additionally, the manufacturer was looking to upgrade its HVAC system monitoring and alarming capabilities to improve operational efficiency and reaction time.

The chosen solution was Ignition by Inductive Automation, an industrial application platform renowned for its data management and visualization capabilities. The implementation of Ignition comprised several key modules, each addressing specific needs.

The Alarm Notification Module was vital for establishing notifications via email and SMS, ensuring that critical events were communicated promptly. Additionally, the system's user interface was designed to be accessible from both mobile and desktop devices, ensuring ease of use and accessibility for operators and management. These features were crucial for maintaining operational continuity and minimizing downtime. Data logging was another critical component, enabling the collection and storage of data from the HVAC system. It facilitated trend analysis and historical data review, providing insights into system performance and identifying areas for improvement. The Reporting Module added the capability to generate detailed reports, offering visibility into production metrics and performance indicators, aiding in the analysis and optimization of production processes.

The Ignition system also included various displays to provide detailed information and control. Custom displays were designed for large monitors and TVs, showing real-time and historical production data for each process. The Plant Overview display provided a high-level view of the facility's production, while the Maintenance section enabled personnel to track maintenance schedules and requirements for equipment. The Reporting section allowed users to configure settings for scheduled email reports. The HVAC display included diagrams of several HVAC systems in the facility for historical trending and alarm management. The diagrams displayed include the overall facility's HVAC layout, air washer units, chillers, and waste systems. Lastly, the administrative section provided authenticated users with the ability to manage operator job assignments, production goals, machine setpoints, and error codes.

The work completed by DSI Innovations to develop a standardized interface for the company's production monitoring systems involved a comprehensive and strategic implementation of Ignition. By leveraging its modules and displays, the project created a unified, efficient, and responsive system that significantly improved operational efficiency and decision-making processes.



## THE RESULTS

The Ignition MES system brought about extremely positive results in the way of monitoring and managing production processes. The standardized interface made it possible for the employees to have a comprehensive view of the plant data to aid in good decision-making and smooth operations. This reduced critical events, minimized downtime, and improved overall productivity.

DSI Innovations provided a solution that achieved the objectives of improving plant performance, consistency, and scalability. DSI's solution allows room for future expansion and improvements to be made as production demands evolve and technology advances. This project ushered the plant into a new technological era, embracing the principles of Industry 4.0 to transform production systems into a smart, interconnected, and highly efficient digital environment.

**“ This implementation reflects DSI's commitment to leveraging advanced technologies to solve real-world problems in manufacturing. It's about creating systems that aren't just functional but transformative. ”**

## CONTACT US

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