

FAB GROUP

FAB Group: A More Connected Production Environment with sedApta MES

A factory digitalization journey connecting production processes, information systems and machine data.

FAB is an Italian industrial company specializing in the production of components for the furniture industry. With over 50 years of experience, the company works alongside leading brands in the sector, providing a wide range of solutions, from worktops and back panels to doors, fronts, infill panels and ready-to-assemble furniture kits. FAB combines technical expertise, manufacturing capabilities and in-depth knowledge of global markets.

With 12 production facilities, 630 employees and an entirely Made in Italy supply chain, FAB relies on an advanced organizational structure designed to manage complex processes with flexibility and precision. Across the entire value chain, the synergy between human expertise, specialized departments and state-of-the-art technologies ensures operational continuity, high efficiency standards and timely decision-making.

Within this operating model, a strong commitment to quality goes hand in hand with the drive toward digitalization. The continuous evolution of digital tools supporting factory operations is a key driver in optimizing workflow management, unlocking the value of production data and supporting the company's long-term strategic growth.



Sector
Discrete
Manufacturing



Size
630 Employees



Turnover
€ 133 MLN (2025)



sedApta Module
MES

Objectives

For an industrial organization as complex as FAB Group, adopting sedApta's Manufacturing Execution System (MES) represents a step forward in the digitalization of factory processes. The solution is integrated with the Microsoft Dynamics AX ERP system through dedicated web services, strengthening the connection between the production environment and corporate information systems.

The project addresses the need to support production activities and the flow of operational information while ensuring the long-term continuity of processes and existing integrations. Available documentation describes the existing architecture and subsequent enhancements, but does not provide detailed information on the initial requirements that led to the original MES implementation.

Another area of development concerns the availability of data from production equipment, enabling machine statuses, downtime, production volumes, scrap and process parameters to be monitored in a more structured way.

Project

FAB Group implemented the sedApta MES suite to support its production processes, progressively developing configurations, customizations and connections with corporate systems over time. Integration with Microsoft Dynamics AX is managed through dedicated web services. The factory environment includes tools for operators and supervisors, such as Shop Floor Monitor and specialized applications.

The solution provides the application foundation on which FAB Group has progressively built its digitalization journey, maintaining a connection between production activity management and corporate information flows. The scope and phases of the original implementation remain to be detailed with the project team.

In 2026, FAB Group completed the upgrade to sedApta Classic v2025, continuing the evolution of its MES platform. The upgrade focused on technological modernization while maintaining the continuity of existing configurations, customizations and integrations.

In parallel, sedApta's Data Acquisition System (DAS) was used to connect machines M006 and M185 to the MES. DAS supports the acquisition and centralization of operational data from production equipment, using communication methods suited to the characteristics of each machine.

The architecture described in the documentation includes machine data monitoring and visualization capabilities, allowing users to access operational information and events. The availability and actual use of individual Control Room views at FAB must be confirmed before publication.

Benefits

The implementation of MES and subsequent technological enhancements demonstrate a journey toward greater integration between factory operations and corporate information systems. The key value drivers, described qualitatively and subject to validation by FAB Group, include:

01. Integration between factory operations and

ERP: Connection of the MES to Microsoft Dynamics AX through dedicated web services.

02. Operational continuity: Preservation of existing configurations and integrations throughout the platform's evolution.

03. Greater access to machine data: Connection of machines M006 and M185 to the MES through DAS.

04. Enhanced monitoring capabilities: An architecture that supports the collection and consultation of operational information from production equipment.

05. Progressive evolution: An application foundation that can support further integrations and developments across the factory.

Why sedApta?

In 2016, FAB chose sedApta and its NICIM MES solution to meet the need for integration with the new Microsoft Dynamics AX 2012 ERP system. NICIM's established presence in the manufacturing sector and sedApta's willingness to take on the challenge of integrating with the new ERP system from the outset were important factors in our decision.

During the analysis phase, we particularly appreciated the sedApta team's ability to listen to and understand our company's needs, recognize the specific characteristics and underlying logic of our production processes, and translate them into practical solutions within the MES system.

From the very beginning of the project, we built a partnership based on availability, expertise and constructive dialogue. Over the years, sedApta has supported us in the evolution of the application, responding to our needs and working alongside us to continuously improve the solution.

Looking ahead, the modularity of the sedApta solution represents an important opportunity to introduce new functionalities, further optimize production processes and improve efficiency in production management.

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