



MANUFACTURING SECTOR – PACKAGING

Real-time Monitoring and Report Automation in Packaging Lines

Implementing an advanced SCADA system with atvise® for real-time data capture, customized KPI visualization, and multi-platform compatibility.

INTEGRATOR:



Project

A packaging plant with up to 10 production lines needed to digitalize its production control and obtain more accurate real-time KPIs. Manual records caused errors, delays, and operational visibility gaps, impacting efficiency and decision-making.

Escada Automatización deployed a solution based on atvise® SCADA, connecting equipment via Ethernet and capturing data with atvise® Connect. Now, information is displayed through web-based dashboards customized by user profile, and reports are generated automatically.

Currently operational in one line, the system can scale to all 10 lines without loss of performance, significantly improving data reliability, response speed, and overall process efficiency.

Integrator Partner



Escada Automatización Industrial is a Venezuelan company with over 10 years of experience in automation and process control solutions.

With a highly qualified technical team, it develops customized projects that enhance operational efficiency, reliability, and traceability.

Specialized in the water, plastics, Oil & Gas, and energy industries, Escada stands out for its technological integration capabilities and continuous support.

The company has successfully executed projects in Venezuela, Panama, Colombia, and the Dominican Republic, consolidating its position as a strategic partner for industrial transformation in the region.



Goals

- ii Implement an advanced SCADA system with atvise® to **monitor** production lines in **real-time**.
- ii Automate data capture and **downtime reporting** to reduce manual errors.
- ii Develop **customized dashboards** to deliver **KPIs** adapted to different roles (Management, Supervision, Operators).
- ii Ensure system **scalability** from one to ten production lines.
- ii Prepare the infrastructure for future **SAP integration**.

Main Challenges

- ii Adapt interface designs to specific needs of each organizational level, ensuring intuitive data understanding.
- ii Centralize information from multiple process stages into a single flexible solution.
- ii Integrate all Rockwell ControlLogix PLCs into a reliable Ethernet network.
- ii Replace manual reports with automated real-time reporting.
- ii Build a scalable architecture ready for future expansion and new technologies.











Solution

All Rockwell **ControlLogix PLCs** were connected through an Ethernet network, using **atvise® Connect** to capture real-time data and centralize it into the SCADA system. atvise® SCADA enabled customized web-based visualization and prepared the architecture for seamless scalability.

The first packaging line was fully implemented within **6 weeks**, including functional testing and staff training.

How the technical challenges were solved:

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Real-time data acquisition: atvise® Connect enabled direct data capture from PLCs, eliminating latency and ensuring indicator accuracy.
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Custom dashboards: atvise® SCADA provided the flexibility to design specific interfaces for management, supervision, and operation, with KPIs tailored to each profile.
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Modular scalability: The system was initially deployed with 50 CCD and is ready to scale up to 1500 CCD without impacting performance or stability.
- 
Cross-platform compatibility: The solution integrates seamlessly with multiple PLC brands and operating systems, allowing fast, vendor-independent integration.
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Automated reporting: Production, efficiency, and downtime reports are generated automatically, eliminating the need for manual records and providing detailed daily analysis.
- 
Security and accessibility: atvise® SCADA offers secure remote access, enabling decision-makers to monitor and act from any location while ensuring operational continuity.

Results

Short-Term Benefits

- ✓ Immediate real-time production monitoring.
- ✓ Fully automated production and downtime reports.
- ✓ Real-time alerts for incident detection and response.

Long-Term Benefits

- ✓ Continuous improvement based on accurate KPIs.
- ✓ Centralized, scalable supervision of all lines.
- ✓ Infrastructure ready for ERP system integration.

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The implementation of atvise® SCADA transformed the management of packaging lines, enabling real-time monitoring, customized visualization, and scalable growth. The solution not only solved current operational challenges but also prepared the customer for future system integrations like SAP.

Packaging Management

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Conclusion

The implementation of atvise® SCADA transformed the management of packaging lines, enabling real-time monitoring, customized visualization, and scalable growth.

The solution not only solved current operational challenges but also prepared the customer for future system integrations like SAP.



atvise® SCADA

SCADA SOFTWARE FOR INDUSTRY 4.0

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Security**



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Design**



**Pure Web
Technology**



OPC UA



Multiplatform



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