



# Proficiency Smart Factory MES Ultimate – Cloud SaaS

Increase throughput and quality with Velotic's managed service, hosted in the cloud – faster, easier, and secure by design

## Reduce manufacturing software costs by 30%\* with Velotic's Proficiency Smart Factory Ultimate while accelerating time-to-value

Velotic's Proficiency® Smart Factory Ultimate, a SaaS MES offering, is a powerful production and quality management solution that speeds production and increases consistency. This cloud-based SaaS solution manages both non-serialized and serialized production operations by providing insight into how products flow through the plant and integrating quality control.

Proven and developed for 25+ years with thousands of implementations around the world, Velotic's leading Proficiency manufacturing solutions are now available as a managed service, hosted in the cloud. Choose cloud only or mix cloud, and on-prem MES to meet your enterprise needs.

Ultimate combines our proven Production Management and Quality Management modules, delivering capabilities developed in partnership with the world's largest manufacturers to support their best practices to increase throughput, reduce variability, and ease compliance.

- > Reduce inventory costs, control the flow of product between equipment, and achieve product genealogy reports
- > Increase quality while lowering waste, scrap, and recall costs
- > Support Lean, Right First Time, Six Sigma, and other process improvement initiatives

\*Compared to on-premises MES solutions

## Outcomes

- > Decrease costs and accelerate production and quality improvements with a proven MES, hosted and managed by Velotic – spanning your process, discrete, and mixed manufacturing environment needs
- > Increase operational efficiency with knowledge and control over real-time production operations
- > Improve performance with capabilities designed to solve the toughest manufacturing challenges and support continuous improvement
- > Drive precision with the ability to visualize, analyze, optimize, and execute with a closed-loop solution
- > Achieve fast ROI with an economical, cloud-based MES solution

## 01 Speed production and increase on-time delivery performance

Define and revise the control route and operations required to make a specific product on a specific line. Our Production Management module oversees production operations, including functions to control product flow between equipment, develop product genealogy reports, and make schedule changes to reduce excess inventory. It supports production schedule execution and product tracking against scheduled completion times with adjustments to optimize efficiencies.

## 02 Ensure consistency and quality

The Quality Management module drives consistent quality in products, providing real-time trends, statistics, SPC, non-conformance tracking and notifications. It integrates process, inspection, and test data from both manual and automated sources, and houses this information in one, integrated place – including support for 21 CFR Part 11. Quality Management attaches operator comments, specifications, recipes, and procedure documents.

## 03 Reduce costs, risk, and downtime with SaaS

- > Decrease total cost of ownership with a cloud-based solution, saving 30% compared to on-premises solutions and moving from CAPEX to OPEX
- > Reduce risk with limited upfront cost and speed time-to-value
- > Improve security and capabilities with automatic updates and patches
- > Increase MES affordability regardless of company/plant size
- > Boost MES deployment success and acceptance
- > Improve visibility with global accessibility and ability to run 24/7 from any device
- > Reduce on-premises infrastructure requirements
- > Eliminate planned downtime for upgrades and costs for IT/OT management staff on-site to manage MES
- > Achieve bidirectional scalability with superscalar cloud innovation
- > Use just cloud or mix cloud, and on-premises MES across your plants for flexibility across your enterprise



Improve your productivity and quality quickly and easily with Velotic's proven MES solution, hosted in the cloud.

## 04 Real results from Proficiency

- > \$5M/year quality savings
- > >\$10M energy savings
- > \$500K annual waste savings
- > \$200K/year SKU cost reduction
- > \$0.01/case SKU formula savings
- > \$850K/year efficiency savings
- > 30% faster product introductions
- > 39% decrease in downtime events
- > 25% defect reduction
- > 50% waste reduction
- > 20% OEE improvement
- > 90% waste reduction
- > 10-15% energy savings
- > 80% reduced emissions
- > 3-month MES payback
- > 90% decrease in holds

## Velotic is recognized

We are proud to announce the Velotic has been named a Representative in the 2026 Gartner® Market Guide for Manufacturing Execution Systems. We believe this is a powerful step forward in our work toward powering our customers' transition to digital with fully integrated industrial manufacturing and utilities software.

More

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## Features

Ultimate Capabilities overview

Proven production management and quality management capabilities used by thousands of companies around the world.

## Architectures

- > Cloud only
- > Mixed cloud and on-premises MES for the flexibility to meet the needs of your enterprise and plants

## As a service: Offering description

- > Fully hosted and managed: Proficy Smart Factory Ultimate hosted in the cloud, managed by Velotic
- > On-premises integration – optionally available

## Production management

- > Track order completion status
- > Production tolerances on non-serialized material and default record quantity
- > Manage material delivery to the process
- > Track true/actual resource consumption and feed back to ERP
- > Drive label printing and identification
- > Orders dispatch from schedule
- > Oversees production operations, including functions to control product flow between equipment

- > Monitors consumption of resources
- > Supports traceability of individual products through manufacturing process steps allowing for auditable genealogy and production reporting
- > Turns production data into performance metrics – monitors automatically and manages consistently
- > Send COAs to customers automatically – optionally available through services
- > Support regulatory and internal compliance (energy, environmental, food safety, costs, etc.) – including eSignature capabilities and 21 CFR Part 11 support

## Quality management

- > Real-time trends, statistics, SPC, and notifications to control quality without slowing manufacturing speed
- > Integrated process, inspection, and test data from both manual and automated sources
- > Related information stored, including operators’ comments, specifications, recipes and procedure documents – supporting 21 CFR Part 11 and eSignature
- > Define the product specifications and recipes that are required for quality production
- > Capture reasons for out-of-spec conditions
- > Capture and disposition non-conformances
- > Integrate process and laboratory data
- > Trend and analyze quality data across shifts, work cells, and products to identify root cause in problem areas
- > Integrate log-sheet information for real-time performance and quality management
- > Improve consistency, drive out variability with simple SPC/SQC

## Performance & scalability

Cloud-scale architecture

- > Reorganized backend designed to scale efficiently across cloud infrastructure.
- > Automatic maintenance
- > Software updates, upgrades, and platform maintenance are managed by Velotic.
- > Reduces operational burden on customer IT teams.

## AI & advanced analytics

Predictive downtime

- > Machine learning models continuously analyze operational data to identify potential production interruptions.

Future-ready AI capabilities

- > Forms the foundation for additional AI-powered manufacturing capabilities, including natural language interaction with MES data.

## Security & compliance

SOC 2 compliant

- > Newly achieved SOC 2 compliance for the SaaS offering.

ISO 27001 certified

- > Meets internationally recognized information security management standards.

Enterprise-grade security

- > Designed with cloud security best practices.
- > Includes role-based security and modern authentication mechanisms.



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## New in version 2026

### Managed SaaS deployment

- > Fully managed by the Velotic, eliminating customer infrastructure management.
- > Available alongside traditional on-premises deployment.

### Multi-site architecture

- > Supports multiple manufacturing sites within a single SaaS instance.
- > Simplifies enterprise-wide deployments and centralized management.

### Modern cloud-native platform

- > Fully containerized architecture designed for scalability.
- > Built on a modern 64-bit backend optimized for cloud environments.

### AI-powered predictive downtime

- > Uses AI and machine learning to predict equipment downtime before it occurs.

- > Provides proactive alerts (e.g., probability of downtime within a specified timeframe).
- > Helps manufacturers take corrective action before production is impacted.

### Root cause analysis

- > Built-in true root cause analysis capabilities.
- > Helps quickly identify the source of production issues and downtime.

### Modern scripting support

- > Supports Python scripting enabling modern application customization and automation.

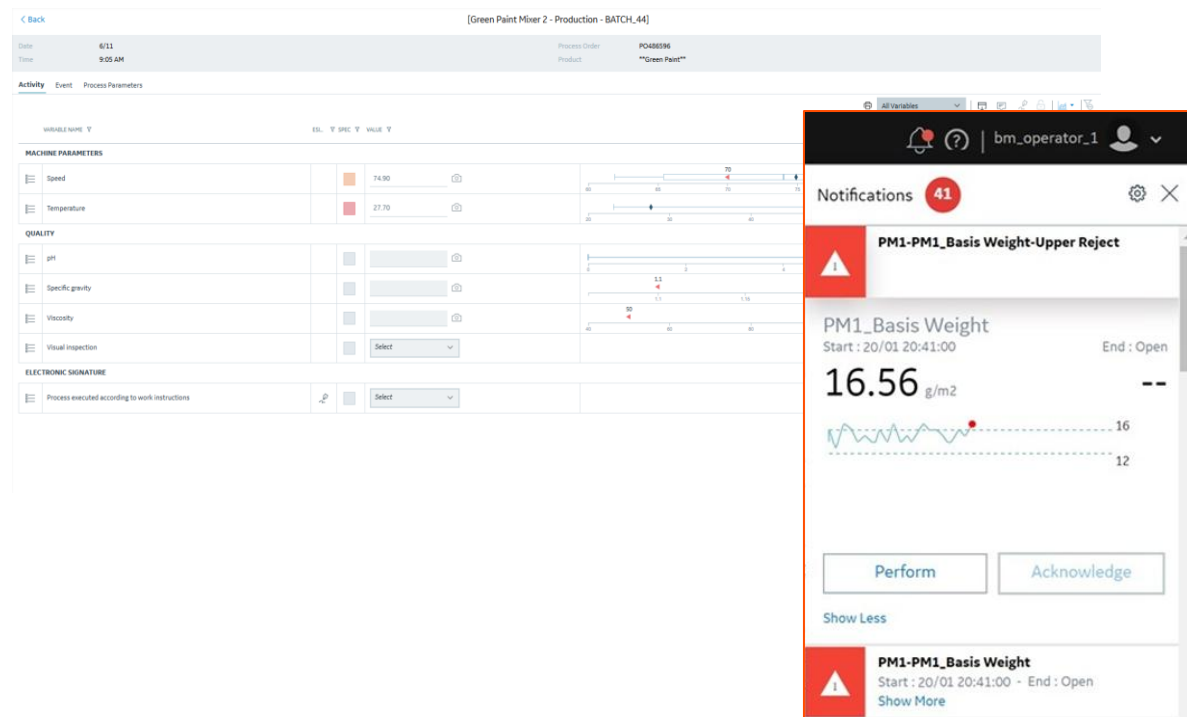
### Continuous updates and innovation

- > Monthly zero downtime updates deliver bug fixes and incremental enhancements.
- > Quarterly upgrades introduce new features and major capabilities.
- > SaaS customers receive new functionality earlier than annual on-premises releases.

### Accelerated access to new features

- > New capabilities are delivered continuously instead of waiting for yearly upgrades.
- > Provides faster time-to-value for customers.

Empower the modern connected worker and operations teams with easy, flexible access to their manufacturing data for better decision-making—including real-time interaction on mobile devices.



Consult product documentation for hardware/software requirements. Confirm standard vs optional features with Velotic representative. Specifications are subject to change without notice. Results and functionality vary, depending on existing hardware/software, applications, implementation, and other factors.

Learn how Proficiency Smart Factory Ultimate helps you manage production and quality with the speed, ease, cost effectiveness, and security of the cloud.

[Learn more](#)