# PROFICY SMART FACTORY – CLOUD MES FROM GE VERNOVA

**GE VERNOVA**

## Increase throughput & quality with GE Vernova's managed service, hosted in the cloud – faster, easier & secure by design

### Reduce manufacturing software costs by 30%* with GE Vernova's Cloud MES while accelerating time to value

Proficy® Smart Factory – Cloud MES from GE Vernova is a powerful production and quality management solution that speeds production and increases consistency. This cloud-based 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, GE Vernova's leading Proficy 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.

Cloud MES 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 in the cloud – 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

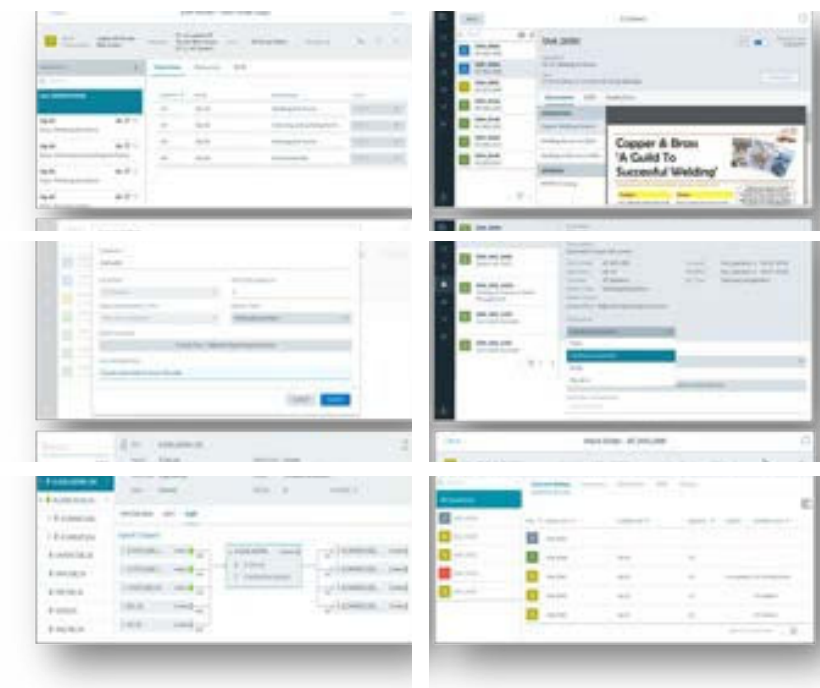### 01 Speed production & increase on-time delivery performance

Define and revision control the 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 & quality

The Quality Management module drives consistent quality in products, providing real-time trends, statistics, SPC, 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 & downtime with SaaS

- Decrease total cost of ownership with a cloud-based solution, saving 30% compared to on-prem solutions & 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-prem 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-prem MES across your plants for flexibility across your enterprise



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

### 04 Real Results from Proficy

- $5M/yr quality savings
- >$10M energy savings
- $500K annual waste savings
- $200K/yr SKU cost reduction
- $0.01/case SKU formula savings
- $850K/yr 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

## GE VERNOVA IS RECOGNIZED.

We are proud to announce that GE Vernova has been named a Representative Vendor in the 2025 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.

**Gartner®**

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## Features

### Cloud MES: Capabilities Overview

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

### Architectures

- Cloud only
- Mixed cloud and on-prem 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 hosted in the cloud, managed by GE
- Concierge service – optionally available
- On-premises integration – optionally available: Hook up wiring and configure on-premises software to collect data

### 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 & manages consistently
- Send COAs to customers automatically
- 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
- 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

### Additional Cloud-Based Modules Available

- OEE / Efficiency
- Batch Analysis
- Proficy Historian
- Proficy Manufacturing Data Cloud
- Proficy Operations Analytics
- Proficy CSense – industrial analytics
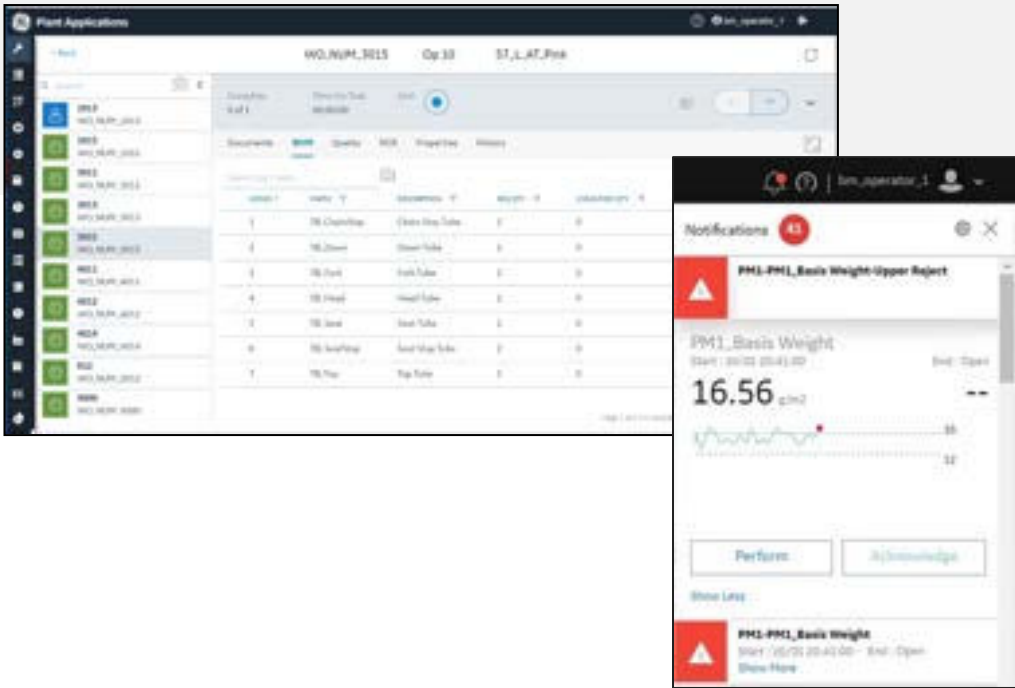- iFIX and CIMPLICITY HMI/SCADA

### Level-Up with Proficy Smart Factory

- Recognized as a Leader in MES by 4 major industry analyst firms
- Faster time to value: dozens of out-of-the-box screens for process, discrete, and mixed manufacturing
- Rich visualization: easily customize screens without writing code
- Manage large enterprises including mixed / diverse manufacturing, multi-sites, and global
- Proven MES, expert support, and real results

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

**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.**



Gartner Peer Insights Customers' Choice 2023

Learn how Proficy Smart Factory – Cloud MES helps you manage production and quality with the speed, ease, cost effectiveness, and security of the cloud.

**LEARN MORE**