



Proficiency Smart Factory – Cloud OEE from GE Digital

Quickly measure, control and improve efficiency with GE’s managed service, hosted in the cloud

Reduce OEE manufacturing software costs by 30%* with GE’s Cloud OEE while accelerating time to value

Proficiency Smart Factory – Cloud OEE from GE Digital is a powerful operations management solution that reduces costs to improve overall equipment effectiveness (OEE) and accelerates results. This cloud-based solution collects and analyzes data, and helps manage highly automated, fast-moving processes as well as slower moving, labor-intensive jobs.

Proven and developed for 25+ years with thousands of implementations around the world, GE’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.

The Cloud OEE module tracks and monitors OEE and other critical key performance indicators, downtime, waste, and production counts, MTBF, MTTR, and more.

- Automatically or manually associate events with causes and then analyze to identify root causes
- Summarize and analyze data by context
- Correlate events and reasons to actual production parameters
- Use standard & ad-hoc reports & dashboards for real-time decisions

*Compared to on-premises manufacturing efficiency solutions

Outcomes

- Reduce costs and accelerate efficiency improvements with a proven MES, hosted in the cloud – spanning your process, discrete and mixed manufacturing environment needs
- Boost operational effectiveness by understanding operations performance down to the individual asset
- 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 OEE solution

01

Run more efficiently

- Reduce costs caused by excessive waste and downtime as well as poorly performing equipment and resources
- Recover existing production capacity through more reliable equipment

02

Make better decisions

- Make data-driven decisions about best practices, capital expenditures, and process improvement initiatives based on those that return the greatest value
- Optimize output of plant equipment, personnel, and materials through comprehensive KPIs

03

Reduce costs and achieve flexibility

- Decrease total cost of ownership with a cloud-based solution, saving 30% compared to on-prem solutions
- Increase affordability for OEE projects regardless of company/plant size
- Use just cloud or mix cloud and on-prem MES across your plants for flexibility across your enterprise
- Reduce on-prem infra requirements
- Eliminate the cost for IT/OT management staff on-site to manage your MES

04

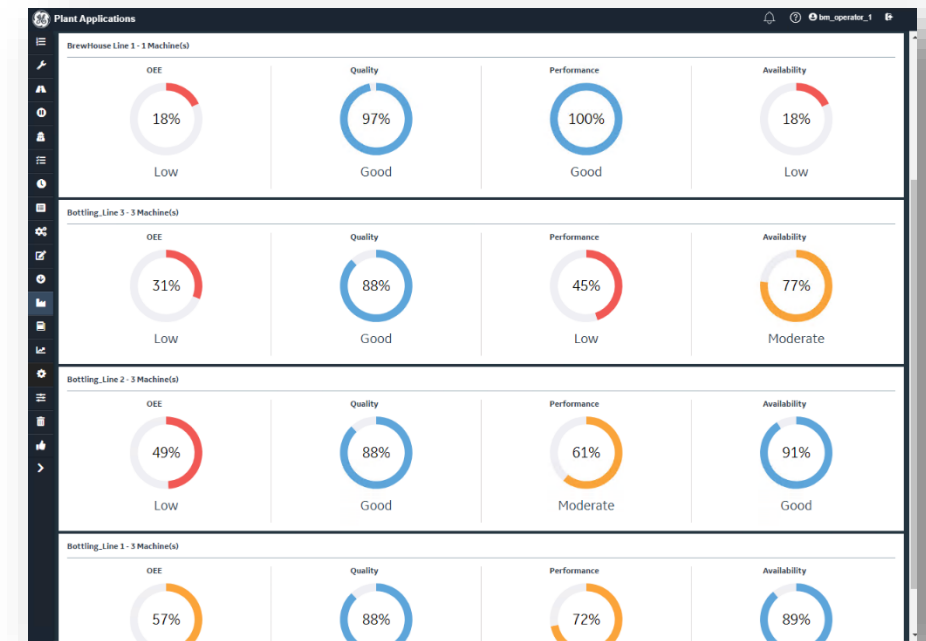
Accelerate time to value

- Ensure expert setup for data flow and getting the system running through GE’s Professional Services
- Enable OEE monitoring for daily management and continuous improvement

05

Secure access to data

- Access data securely from anywhere



Improve your efficiency quickly and easily with GE Digital’s proven OEE solution, hosted in the cloud.



Real Results from GE’s Proficiency Software

- \$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 payback on MES
- 90% decrease in holds

“We further developed our by-the-numbers approach by creating a downtime dashboard – which tracks each line by shift, downtime percentage, and cost of downtime – to create friendly competition amongst factory operators and encourage production efficiency improvements.”

Don M. Cormier, Vice President, U.S. Information Systems and Quality Assurance, Toray Plastics (America), Inc.



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Features

Cloud OEE: Capabilities Overview

Track & monitor production performance & other KPIs

- OEE and uptime
- Track downtime, waste and production counts
- Automatically or manually associate events with causes

Analyze equipment effectiveness to identify root causes

- Summarize and analyze data in context
- Correlate events and reasons to actual production parameters

Standard & ad hoc reports, dashboards for real-time decision-making

- Analysis and visualization
- Detailed production data for long-term analysis

Architecture

- 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

- Quick Start with OEE: Mandatory 10-week program for configuring one line (or 5 machines)
- Fully hosted and managed: Proficiency Smart Factory hosted in the cloud, managed by GE
- Concierge service: Configures Proficiency Smart Factory after Quick Start, special intro offer of concierge services included in price for the first year, single touch point
- On-premises integration (optional): Hook up wiring and configure on-premises software to collect data

Additional Cloud-Based Modules Available

- Production Management
- Quality Management
- Batch Analysis
- Proficiency Manufacturing Data Cloud
- Proficiency Historian

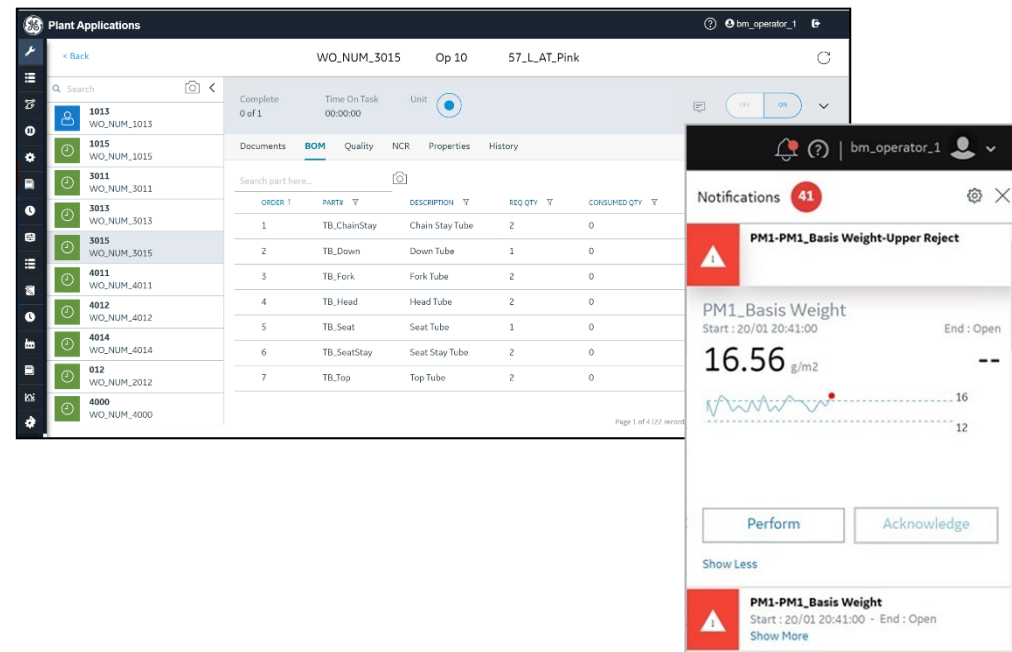
Proficiency Smart Factory: Faster ROI with Proven MES

- Clearly shows areas/causes of productivity losses such as defects, waste, and downtime
- Scalable MES platform for all manufacturing environments – continuous, discrete and hybrid
- Turns production data into performance metrics – monitors automatically & manages consistently
- Operations performance management best practices from the world’s leading companies
- Standards-based (S95) unified manufacturing database
- Contemporary Web UI with Proficiency Operations Hub widgets including Waste and Downtime Views
- Frees operators from collecting, logging, and interpreting information manually
- Extensive reporting & analysis tools find problems and drive activities for improvements
- Service oriented architecture for easier enterprise connectivity & fast deployment

Proficiency Smart Factory: Other Capabilities and Features

- Track order completion status
- Load set points automatically
- Manage material delivery to the process
- Track true/actual resource consumption and feed back to ERP
- Drive label printing and identification
- Assure product genealogy/traceability
- Track and analyze batch processing information
- Integrate log-sheet information for real-time performance and quality management
- Improve consistency, drive out variability with simple SPC/SQC
- 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
- Drive manual and automated work processes

Empower the modern Connected Worker and operating teams with easy, flexible access to their manufacturing data for better decision making – including real-time interaction on mobile devices.



Learn how Proficiency Smart Factory – Cloud OEE helps you balance the tradeoffs between competing production priorities and maximize your operational effectiveness.

LEARN MORE



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Services

In the world of Industrial Internet of Things (IIoT), organizations are able to optimize productivity, reduce costs, and achieve Operational Excellence. While this is an exciting time for opportunity and growth, it can also bring on new challenges, questions, and uncertainty. No matter where you are on your IIoT journey, GE Digital has the right services offering for you.

[Advisory Services](#) We can help you plan and start your IIoT journey in a way that aligns to your specific business outcomes.

[Managed Services](#) We can help you maintain your critical machines from one of our remote locations around the world using model-based predictive analytic technology.

[Implementation Services](#) Our experienced global Automation partners can implement a collaborative, multi-generational program that marries your existing investments to the right enhancements and technology.

[Education Services](#) We specialize in education services to ensure that you’re leveraging our solutions to the fullest extent with our training and certificate programs.

[Acceleration Plans](#) Let us help by ensuring that your business continues to operate at its highest efficiency, all while mitigating risks to your investments.

[Security Services](#) Our solutions provide industrial-grade security for a wide range of OT network and application topologies.

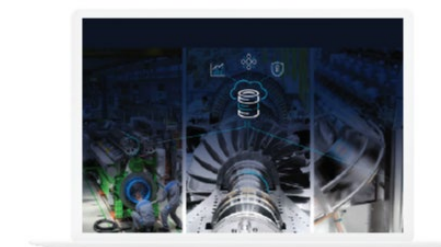
Related Products for Your Digital Transformation Journey

GE Digital’s Proficiency suite helps you precisely monitor, control, and visualize every aspect of your operations, enabling operators to make the best decisions faster. Transforming your business requires foundational innovations that lay the groundwork for future success.



[Proficiency Operations Hub](#)

Aggregate and visualize contextual and situational information for industrial applications – supporting rapid application development and rich displays for faster operational response & better decision making



[Proficiency Manufacturing Data Cloud](#)

Achieve an unprecedented ability to create connected factories that provide a cloud-hosted enterprise manufacturing system of record while optimizing your on-prem MES data footprint and performance



[iFIX](#)

Gain visibility into your operations and secure agility for smarter decision making that drives results with industry-leading HMI/SCADA used around the world.



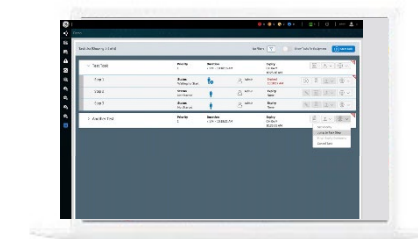
[Proficiency Historian](#)

Optimize asset and plant performance through time-series and A&E industrial data collection and aggregation. Improve decision-making with advanced trend analysis.



[CIMPLICITY](#)

Drive real-time visibility for smart operators with true client-server based visualization and control with proven HMI/SCADA used by the largest industrial organizations



[Proficiency Workflow](#)

Guide operators with dynamic, interactive electronic work instructions and eSOPs for more consistent operations and optimized processes.

About GE

GE (NYSE: GE) is the world’s Digital Industrial Company, transforming industry with software-defined machines and solutions that are connected, responsive and predictive. GE is organized around a global exchange of knowledge, the “GE Store,” through which each business shares and accesses the same technology, markets, structure and intellect. Each invention further fuels innovation and application across our industrial sectors. With people, services, technology and scale, GE delivers better outcomes for customers by speaking the language of industry.

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