Plant Applications 8.0 from GE Digital

Maximize operations management, improve production performance, and drive product quality

Modern Manufacturing Execution System software to maximize operational effectiveness

Plant Applications from GE Digital is a powerful operations management solution for process, hybrid and discrete manufacturers, such as food and beverage, consumer packaged goods and electronic manufacturing that collects and analyzes data, and helps manage highly automated fast-moving processes.

In its second decade as a leader in manufacturing execution system (MES) software, Plant Applications automates and integrates the information-related activities for managing production execution and performance optimization holistically. It helps balance the tradeoffs between competing priorities of production operations for maximized operational effectiveness and profitability.

Outcomes

- Boost operational effectiveness by understanding operations performance down to the individual asset
- Improve performance with capabilities designed to solve the toughest manufacturing challenges
- Drive precision with the ability to visualize, analyze, optimize, and execute
- Ensure uncompromising quality with GE's renowned expertise in Six Sigma and Lean, combined with its own manufacturing operations
- Leverage faster deployment with commercial-off-the-shelf (COTS) software for a unique boost to your deployment plans

Efficiency Management

Efficiency Management tracks and monitors overall equipment effectiveness (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
- Correlate events and reasons to actual production parameters. Utilize standard reports, ad-hoc reports, and dashboards for real-time decision-making
- Summarize and analyze data by context

Production **Management**

Define and revision control the route and operations required to make a specific product on a specific line. Production Management 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. Production Management supports full traceability of individual products through every step of the manufacturing process allowing for auditable genealogy and production reporting.

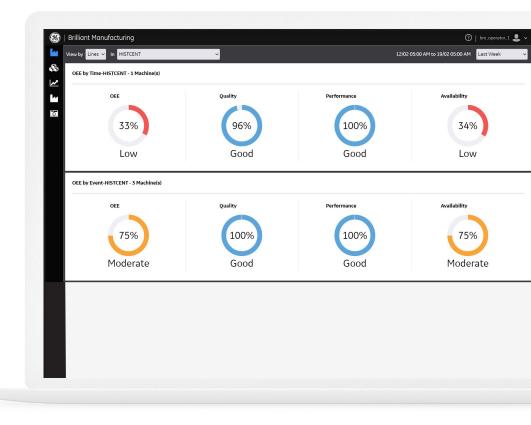
Quality Management

Quality Management ensures consistent quality in your products, providing real-time trends, statistics, and notifications to control quality levels while keeping up with the speed of your business. It integrates process, inspection, and test data from both manual and automated sources and houses this information in one, integrated place. Quality Management also attaches operator comments, specifications, recipes, and procedure documents to this information.

Plant Applications helps you understand your operations performance using simplified displays optimized to enhance operator productivity

With our unique layered applications approach and interface to standards-based commercially available batch execution systems, Batch Analysis is a great fit for both new and existing systems. It supports ISA-88 recipe analysis for products as formulation (BOM), procedures, and equipment. Batch Analysis also provides analysis of scheduled and completed recipes and generates electronic batch records to help increase the overall quality and consistency of products.





Batch Analysis

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Features

- Clearly shows the biggest areas and causes of productivity losses such as defects, waste, and downtime
- Common MES platform for multi modal manufacturing - continuous, discrete and hybrid manufacturing
- Translates raw production data into performance metrics that the system monitors automatically and manages consistently
- Operations performance management best practices from the world's leading companies
- Standards-based (S95) unified manufacturing database

- Frees operators from the non value-add work of collecting, logging, and interpreting information manually
- Extensive reporting and analysis tools help find problems and drive the right activities for performance improvements
- Service oriented architecture for easier enterprise connectivity and rapid solution development & deployment
- Familiar user interface with advanced features designed for future growth

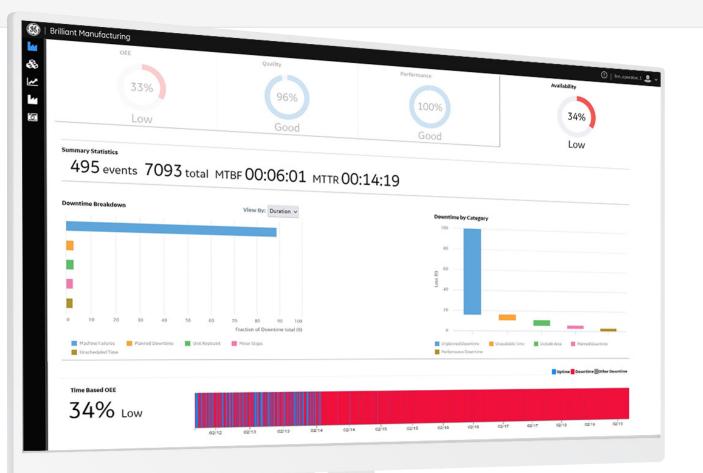
Hardware requirements

The following minimum server requirements when running in a Plant Applications environment:

- 4 CPU Cores 3 GHz
- 8 GB RAM
- 500 GB disk

For a standard implementation, we recommend the following:

- 8 CPU Cores
- 16 GB RAM
- 1 TB



Hardware and software requirements are representative and may vary by customer deployment. Please consult the product documentation for more details.

Learn how Plant Applications can help you balance the tradeoffs between competing production priorities and maximize your operational effectiveness.

With Plant Applications, you can click and view detailed information easily and make informed decisions faster.



Software requirements

- Windows Server 2012 R2. 2014. or 2016 for server installations (32- or 64-bit)
 - Windows 7 for client installations (32- or 64-bit)
 - SQL Server 2012, 2014, or 2016 (32- or 64-bit)
 - Web Server IIS 7.0 or higher based on the operating system
 - Microsoft .NET Framework 4.5
 - Microsoft Excel 2013 or 2016
 - Browsers
 - Microsoft Internet Explorer 11 (Web Reports)
 - Chrome v56.0+ (Universal Client)
 - Safari v10.0+ (Universal Client)
 - PDF reader (required to view some Web Server reports).
 - GE Digital's Workflow (32-bit version)
 - GE Digital's Historian 7 (for Universal Client usage)

LEARN MORE

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Services

About GE

In the world of Industrial Internet of Things (IIoT), organizations are able to optimize productivity, reduce costs, and achieve Operational Excellence.

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 modelbased predictive-analytic technology.

Implementation Services Our team will help develop a collaborative, multi-generational plan that will marry your existing investments to the right process 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.

GlobalCare Support Services Let us help by ensuring that your business continues to operate at its highest efficiency, all while mitigating risks to your investments.

Cyber Securiity Services Our solutions provide industrial-grade security for a wide range of OT network and application topologies.

Related products

GE Digital's Manufacturing Solutions suite helps digitize your manufacturing plant or factory with insights that optimize your processes.



Workflow \rightarrow

Guide Operators with Dynamic, Interactive Electronic Work Instructions and eSOPs for More Consistent Operation.

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Gain visibility into your operations and secure agility for smarter decision making that drives results.



Transforming your business requires innovative foundational solutions that lay the groundwork for optimized performance.



Cyber Security for $OT \rightarrow$

Take the right actions to increase resilience, help ensure safety, and maintain availability across your operational technology (OT) environment.

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Contact

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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.

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,

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REDIX

Predix \rightarrow

Innovate and transform your business with the cloud-based operating system for the Industrial Internet, purpose-built for industry.



Predix Manufacturing Data Cloud (MDC) →

Predix Manufacturing Data Cloud gives customers unprecedented ability to create "connected factories" that provide cloud hosted enterprise mfg. system of record, and optimize MES data footprint and system performance at the edge.

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Asset Performance Management →

Move from reactive to proactive maintenance to reduce unplanned downtime, minimize maintenance costs, improve efficiency, and extend asset life.