Tracker 11 from GE Digital

Increase throughput and accelerate time-to-market in conveyor and assembly manufacturing

Production Tracking & Order Execution Management to optimize your manufacturing process & production orders

With installations spanning the world, Tracker from GE Digital, part of the Proficy family, is a comprehensive routing, tracking, and order execution management system that helps manufacturers raise productivity and cut costs by monitoring and managing the execution of production orders.

Tracker automates routing and sequencing to accelerate time to market, reduce warranty and recall exposure, and support Lean operations and building right the first time. This proven solution collects genealogy and traceability data for audit trails and regulatory compliance. Other capabilities include WIP inventory control, defect containment, hold management, substitution management, sequence management, broadcast, and more. Additionally, Tracker coordinates across the supply chain to help meet production schedules.

Built on GE Digital's widely used CIMPLICITY HMI/SCADA software, Tracker also enables High Performance HMI to speed operator actions. It offers secure-by-design connectivity and certificate management. Configuration is simple with modeling for repeatability and time savings.

Proven in high-value, high-volume, high-variability environments, Tracker provides detailed, continuous information to help you make the best decisions for a competitive advantage.

Outcomes
- Increase throughput with detailed, continuous information to help you make the best decisions
- Enable faster time-to-market with powerful order execution
- Reduce risk including exposure to recalls
- Drive higher productivity and lower costs
- Leverage efficient scheduling and routing of materials
- Improve production performance with the ability to manage and adapt to real-time situations on a production floor
- Achieve Lean manufacturing and build right the first time

01 Increase throughput and launch new products faster

With Tracker, each serialized item that moves through your production or packaging process can be tracked. You get the information you need to optimize your manufacturing process while managing inventory levels and locations, scheduling resources, and routing materials much more effectively and automatically.

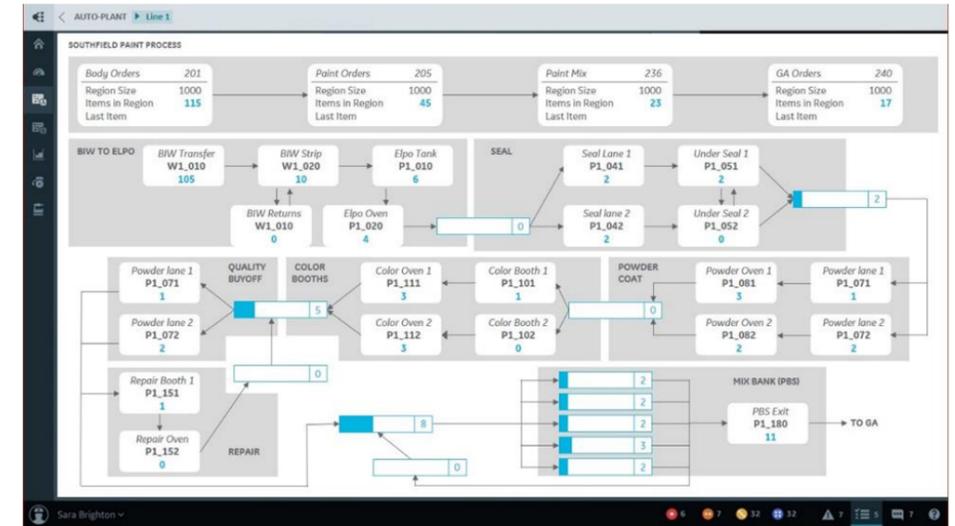## 02 Implement Lean production to streamline operations and reduce costs

With Order Execution Management, Tracker helps manufacturers and suppliers understand real-time sequence requirements and handle situations that occur on the plant floor when the sequence is broken – enabling manufacturers to build right the first time. It helps facilitate a large reduction in WIP inventories along with finished goods inventories while meeting production targets.

03 Improve inventory and production orders with real-time information

Better manage inventory, production orders, and routing materials with detailed data using Tracker. This software solution empowers your operators with real-time information and control of their operations to accommodate a variety of production flow adjustments.

04 Achieve real-time flow management of jobs

Tracker provides the ability to not only track the real-time location of jobs on the production floor, but can be configured to perform routing logic on the movement of jobs throughout the facility. This unique capability allows manufacturers to manage the manufacturing, routing, and delivery of multiple product components into complex product assemblies.

A global standard for routing and tracking, Tracker accelerates time to market, reduces warranty and recall exposure, decreases costs, and enhances Lean manufacturing.

04 Leverage standards for IoT interoperability and gain enterprise-wide visibility

Tracker delivers a standards-based open ecosystem for superior interoperability and the foundation for IoT. As part of the Proficy family, Tracker reflects GE Digital's commitment to OPC UA, MQTT, ISA 18.2, ISA 101, and more. With Tracker, you can gain visibility across disparate, disconnected systems as well as a blueprint for manufacturing across enterprise-wide operations for a simpler, reusable manufacturing infrastructure. Furthermore, through CIMPLICITY HMI/SCADA, you gain a powerful, widely-used SCADA system that includes device connectivity (both native and OPC), graphical development, alarm management, marquee and pager interfaces, client management, and much more.

"There were mainly three criteria we considered during the selection process. They were high quality, cost savings, and an integrated solution. [The solution] from GE is quite outstanding in features and performance."

Mr. Lijia Yang, Electrics Control Engineer, Powertrain, Shanghai GM

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Features

New in Version 11

- Ad hoc distributed queries
- SQL AlwaysOn support for high availability and disaster recovery for SQL Server (with exception of the Tracker Attribute Database functionality)
- Support for Windows Server 2019 and SQL 2017

Proven Order Execution Management

- Routing and tracking
- Order management
- Broadcast
- Sequence management
- Substitution management
- Hold management and defect containment
- Collects data from many automated sensors and readers, including bar codes, RF tags, and mechanical tag systems
- Maintains detailed data for all jobs in the system, including content, status, location, and production process counts
- Provides routing control of production orders through the production facility
- Facilitates Build to Order / Build to Sequence
- Ensures building it right the first time
- Enables Lean manufacturing
- Collects genealogy and traceability data for audit trails and regulatory compliance
- Coordinates the supply chain
- WIP inventory control
- Finding critical jobs
- Meeting production schedules
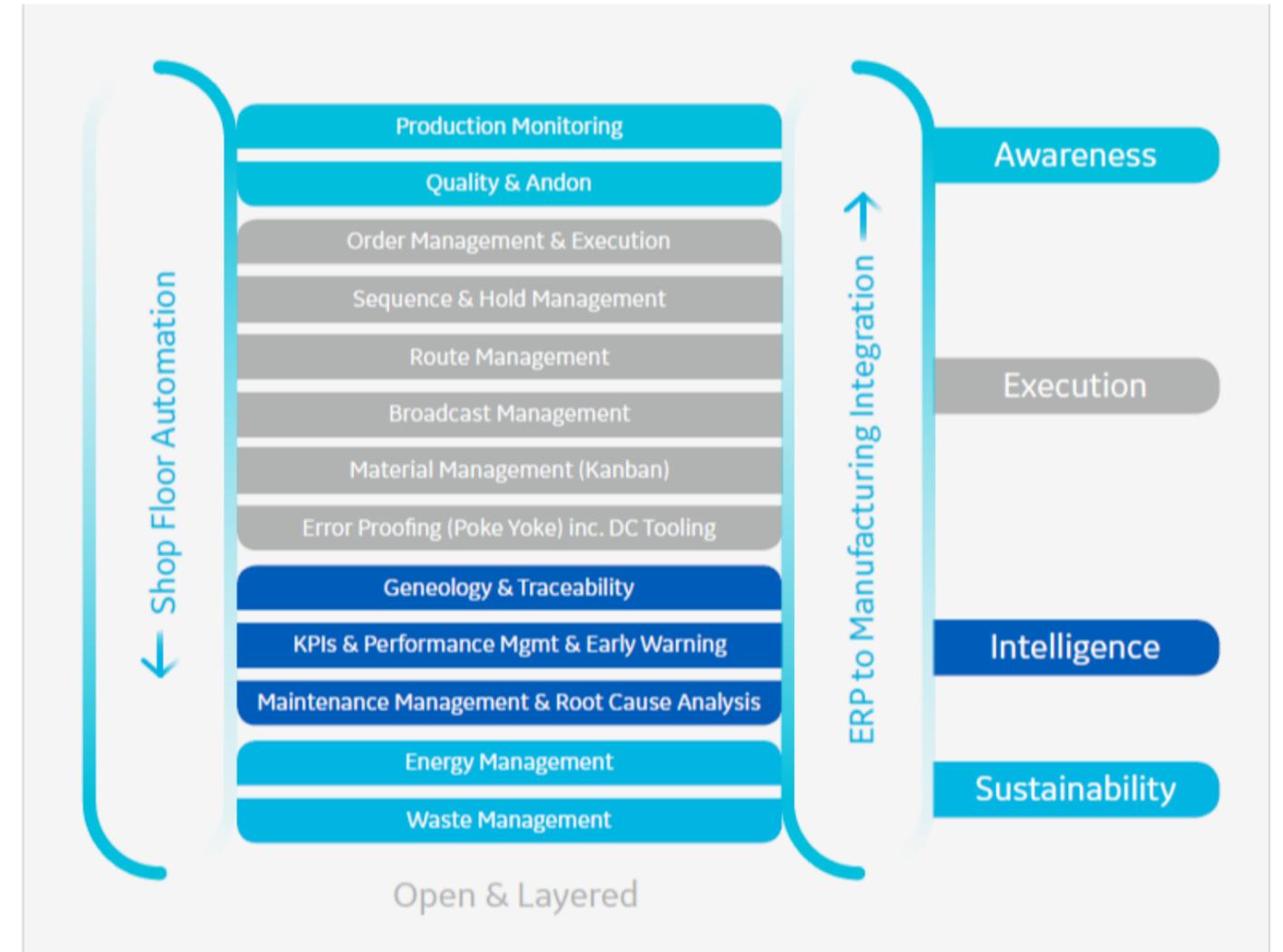- Manufacturing resource utilization

Software Requirements

- One of the following operating systems:
  - Microsoft Windows 10 (32 bit or 64 bit), P/E/U Editions
  - Microsoft Windows 10 IoT Enterprise (LTSB) – only full blown IoT version is supported. Not the core and mobile versions.
  - Microsoft Windows 8.1 (32 bit or 64 bit), P/E/U Editions
  - Microsoft Windows Server 2019
  - Microsoft Windows Server 2019 Cluster
  - Microsoft Windows Server 2016
  - Microsoft Windows Server 2016 Cluster
  - Microsoft Windows Server 2012 R2
- Supported: Microsoft SQL Server 2017, 2016, 2014; SQL Express 2017, 2016, 2014; Microsoft Visual Studio 2017

Hardware Requirements

- Intel Core 2 Duo 3.0 GHz or better computer
- A minimum of 4 GB RAM
- A minimum of 40 GB of free hard drive space

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

Shop Floor Automation

- Production Monitoring
- Quality & Andon
- Order Management & Execution
- Sequence & Hold Management
- Route Management
- Broadcast Management
- Material Management (Kanban)
- Error Proofing (Poke Yoke) inc. DC Tooling
- Geneology & Traceability
- KPIs & Performance Mgmt & Early Warning
- Maintenance Management & Root Cause Analysis
- Energy Management
- Waste Management

ERP to Manufacturing Integration

- Awareness
- Execution
- Intelligence
- Sustainability

Open & Layered

Discover how Tracker from GE Digital can increase your throughput and accelerate your competitiveness with proven, automated routing and tracking.

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.
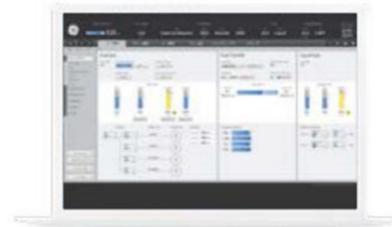
Education Services We specialize in education services to ensure that you're leveraging our solutions to the fullest extent with our training and certificate programs.

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

GE Digital's Proficy suite helps you precisely monitor, control, and visualize every aspect of your operations, enabling operators to make the best decisions faster.

CIMPLICITY

Drive real-time visibility for smart operators with true client-server based visualization and control.

Proficy Operations Hub

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

Proficy Historian

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

Continue your Digital Transformation journey

Transforming your business requires foundational innovations that lay the groundwork for future success.

Dream Report

Powerful reporting to help you improve performance and meet operational goals.

Proficy Plant Applications

Maximize overall equipment effectiveness (OEE), improve production scheduling, and ensure product quality by leveraging real time production data.

Proficy Workflow

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

About GE

Contact

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