



Proficiency* Tracker with Order Execution Management

A Better Way to Manage Your Manufacturing Process and Production Orders

Proficiency Tracker with its Order Execution Management capability helps you raise productivity and cut costs by monitoring and managing the execution of your production orders. With Proficiency Tracker, each serialized item that moves through your production or packaging process can be tracked. You get the detailed, continuous information you need to optimize your manufacturing process while managing inventory levels and locations, scheduling resources and routing materials much more effectively.

The Order Execution Management functionality extends standard Tracker to handle the ever-changing real world conditions of your production floor. It provides production order management, bill of material distribution (i.e., broadcast), product and order sequencing, order substitution and exception management (i.e., hold management) of your production orders.

Business Benefits

The value of any software product is its ability to improve business performance while realizing a lean production environment. Proficiency Tracker with Order Execution Management is unique in the industry and offers a solution that manages and adapts to the real-time situations that occur on a production floor.

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.

Achieving Lean Manufacturing

The trend in manufacturing today is a shift from build to stock to just in time, build to order with single piece flow management of the product. Sequencing ensures products are produced efficiently throughout the manufacturing facility based on real time and changing constraints. A pull material management system through eKanban reduces WIP inventory and helps achieve smooth production flow, and error proofing ensures products are built right the first time. Referred to as Lean Manufacturing, this entire Lean process, per the Toyota Production System model, facilitates a large reduction in WIP inventories along with finished goods inventories while meeting production targets.

Sequence Realization is the process of assuring that the correct components for a job are delivered at the right time and in the right order. In many manufacturing operations, suppliers will have to pay a penalty if the sequence is not achieved. If the right components are not available, that job will need to be set out of the production line until the right parts arrive, which can impact all subsequent operations if the situation is not properly managed. Order Execution Management helps manufacturers and their suppliers understand the real-time sequence requirements, and more importantly, handle and react to the real-world situations that occur on the plant floor when the sequence is broken.

Proficiency Tracker

Manage Your Work in Progress

Tracker works with a variety of production processes, making it easy for you to implement and operate a comprehensive work-in-progress tracking system.

- Collects data from many automated sensors and readers, including bar codes, RF-tags and mechanical tag systems.
- Provides graphic screens to display tracking paths and item information, and reflect production control commands.
- Maintains detailed data for all jobs in the system, including content, status, location and production process counts.
- Keeps cycle counts, repair information and carrier/container status online; it accommodates different types of carriers and containers within a system, allowing you to track products even when the



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- manufacturing process transforms them.
- Provides routing control of production orders through the production facility.
- Collects and tracks product genealogy information.



Adaptable for Thousands of Applications

Tracker accommodates a variety of production flow adjustments, from minor modifications to major system redesign. Tracker's automation of tracking and routing can significantly increase the return on your existing equipment by:

- Building products right the first time through error proofing
- Delivering material to line side only when required
- Kitting parts prior to delivering to the assembly line
- Automatically sending defective materials to a rework area and scrapped materials to a recycling area
- Grouping batches of products to be painted the same color, resulting in improved efficiency, reduced set up and eliminated rework
- Monitoring carriers that are due for adjustment or inspection and automatically routing carriers in need of additional work to a repair center

- Providing line balancing during production startup

Tracker's Order Execution Management

Manage Your Manufacturing Orders

Tracker's Order Execution Management functionality manages real-world events that affect your production orders. It includes five modules:

Plant Order Management is responsible for receiving orders from a higher level ordering system and will then adjust them to the plant requirements and capabilities.

Sequence Management deals with the reality that things will change on your production floor. It provides the ability to manage the build sequence to a pre-established order and helps assure that products are produced in the correct sequence to meet customer orders.

Substitution Management works with Sequence Management to maintain the order sequence even if the production sequence cannot be achieved. When the sequence is broken, Substitution Management will "substitute" the order associated with the product to another work-in-process product with like characteristics, effectively maintaining the production sequence.

Hold Management provides the ability to mark items with reasons why they should not move forward in the manufacturing process. Holds have to be released or repaired prior to product shipment. Fully configurable, examples of "holds" include part shortages, quality defects and process-related issues.

Development and Implementation Support Services

Our experienced GE Intelligent Platforms engineers can help you develop and implement strategies that apply Tracker with Order Execution Management information to optimize manufacturing flow.

We can work with you to:

- Define system architectures
- Define, document and configure the tracking model and routing objects
- Define and configure sequencing and substitution business rules
- Define and configure the Hold Management strategy
- Define and configure the auxiliary systems, including eKanban and Error Proofing
- Perform on-site installation and startup assistance
- Determine the selection and placement of sensor devices
- Provide overall project and program management

Tracker lets you:

- Monitor and manage your production flow
- Dynamically collect and store data associated with your product
- Determine the location of all tracked products and display data about each item
- Provide control commands to production equipment to process and route materials
- Support inspection and rework processes, as well as production, assembly and packaging operations

GE Intelligent Platforms Contact Information

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Global regional phone numbers are listed by location on our web site at www.ge-ip.com/contact

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