Siemens Opcenter Execution Discrete 3.0

Solution for complex assembly and job-shop environments

**Benefits**
- Delivers a newly redesigned, user-friendly UI that provides a compelling state-of-the-art experience
- Reduces scrap and waste by guiding shop floor operators through their assigned tasks, providing interactive instructions and data acquisition screens
- Enforces audit and certification management to trace and prevent unauthorized actions
- Improves cost of production calculation by means of enhanced labor tracking functions
- Integrates with advanced scheduling (Siemens Opcenter Scheduling)
- Features a quality inspection definition as part of the bill-of-process and allows the user to execute manufacturing and quality activities in a single environment
- Provides visibility into WIP and full product traceability and genealogy

**Summary**
Siemens Opcenter Execution Discrete is designed to satisfy the most common needs of industries in which specific macro areas are dedicated to executing sequential discrete manufacturing functions in order to produce the desired product. These include:

- Automotive tier suppliers
- Aerospace and defense tier suppliers
- Energy and utilities
- Industrial machinery and heavy equipment
- White goods and home appliances
- Complex parts manufacturing and assembly

By using Siemens Opcenter Execution Discrete you can leverage specialized out-of-the-box (OOTB) functions for complex assembly manufacturing and job-shop environments (high complexity, low volume) and automated repetitive manufacturing industries (configurable products, high volume).

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Features

- Create production orders by defining the type of production and quantity to be produced
- Ability to model alternative operations in order to predefine how to overcome resource bottlenecks
- Schedule production according to your needs
- Guide operators during the execution phase, including quality inspection
- Track and monitor production to see work-in-process
- Track labor time spent on nonproductive activity, such as training, maintenance, etc.
- Notification of business events
- UI content driven by business events; unattended operation on automatic machines including full product traceability
- Configurable interlocking checks to validate operation start and completion and configurable constraints on the use of manufacturing tools and equipment
- Perform quality inspections on products, including measurements, checklists and defect detection and count
- Detect, sentence and repair nonconformances according to configurable rework processes
- Collect process data and trigger label printing
- Perform material calls, tool calls and e-kanban buffer replenishment
- Functionality to call, prepare and consume kits for configurable product assembly
- Support of powder bed additive manufacturing (AM) processes: powder batch splitting, consumption, recycling, association with test lab certificates, mixing and genealogy

Modeling your production environment

Siemens Opcenter Execution Discrete offers native engineering and run-time data definition. As a product engineer, you can define entities so it is possible to model engineering data. This means you can configure information about the products you will produce, the production process and related work operations, and all required resources, such as locations, machines, tools, material definitions, defects and rework codes. As an alternative, of course it is possible to import such data from external systems.