Opcenter Execution Discrete 3.3

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 and fully supports localization according to username settings
• 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 (Opcenter APS)
• Features quality inspection definitions 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
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 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).

Modeling your production environment
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.
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Features

- Create production orders by defining the type of production and quantity to be produced; quantity can be a fixed prescription or a target allowing for more or less to be produced and the order to be closed at any time
- 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
- Before starting an operation, it may be required to form a team of operators with appropriate skills, as defined in the bill of process.
- Track and monitor production to see work-in-process
- Ability to track co-products and by-products of the main manufacturing flow
- If an operation end unsuccessfully, this event is stored in the product history and the operation itself may be repeated or the issue may be fixed following a dedicated rework 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 visual defect detection and count. Additionally, it is possible to model movable containers to hold workpieces during manufacturing.

- 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
- Provide a bi-directional update flow for nonconformances between shopfloor and engineering department
- Support of powder bed additive manufacturing (AM) processes: powder batch splitting, consumption, recycling, association with test lab certificates, mixing and genealogy

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