What's new in Opcenter EX MDD 2304

Supporting cloudification and delivering enhanced control and integration

Benefits

- Delivers enhanced control and integration
- Supports a simpler, containerized deployment model
- Delivers an enhanced RESTful API for improved productivity and quality
- Provides greater control and enforcement of collected data and computations
- Introduces advanced equipment maintenance and parts management
- Delivers enhanced security and technology support

Summary

Opcenter™ Execution Medical Device and Diagnostics (EX MDD) software serves as the foundation for leading global manufacturers and product innovators that want to enable rapid change, lean manufacturing, consistent quality output, rapid new product introduction (NPI) and higher profit margins. Integrated with enterprise resource planning (ERP), product lifecycle management (PLM), supply chain management (SCM), customer relationship management (CRM) and the shop floor, Opcenter Execution Medical Device and Diagnostics completes the technology infrastructure for manufacturing. Solutions are architected for global use, enabling worldwide visibility for real-time control and mission-critical operations.

Opcenter Execution Medical Device and Diagnostics 2304, which is part of the Siemens Xcelerator business platform of software, hardware and services, delivers new enhancements to improve the application's capabilities and security. A containerized deployment model simplifies application deployment and supports customer cloud strategies. An enhanced representational state

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transfer application programming interface (RESTful API) facilitates streamlined interfacing and integration with the application. Enhancements to the data collection and computation capability allow for greater control and enforcement over data point formats. Advanced equipment maintenance and parts management capabilities provide greater control of equipment.
Our expanded set of supported technologies offers you access to the most up-to-date set of technologies.

Capabilities

Containerization – general availability for Microsoft Azure and SQL Server

- Supports containerized application deployment on Azure
- Supports Microsoft SQL Server
- Supports Microsoft Azure App Insights for performance monitoring
- Delivers Docker-generated Windows-based containers
- Supports Kubernetes for container orchestration
- Provides shared cloud storage for configuration files such as the Microsoft Access Database (MDB) and portal pages
- Enables application performance monitoring via Azure Application Insights
- Includes inline statistical process control (SPC)
- Documents best practices for deployment and architecture

RESTful API

- Supports testing and debugging a transaction without committing it
- Expands list functionality by adding an end point that can update/delete list items
- Supports filtering options for selection value queries
- Delivers error message enhancements
- Upgrades the OData version from 8.0.1 to 8.0.11
- Improves discoverability via the Swagger interface by:
  - Highlighting all required fields
  - Returning a list of events supported by the configurable data object (CDO)
  - Adding the ability to authenticate
  - Supporting the ability to try out a transaction

Decimal scale enforcement enhancements

- Allows you to store actual numeric value captured as part of the transaction execution, including trailing zeroes for the following transactions:
  - Component remove
  - Component replace

- Extends data collection modeling and shop floor pages to enable:
  - Defining rounding rules for upper and lower limits in modeling (needed only when expressions are used)
  - Rounding and displaying upper and lower limit expressions to the defined number of decimal places
- Extends the computation modeling and shop floor pages to enable:
  - Defining rounding rules for upper and lower limits and calculation in modeling (needed only when expressions are used)
  - Rounding and displaying upper and lower limit and calculation expressions to the defined number of decimal places
- Extends the weight issue task modeling and shop floor pages to enable:
  - Defining rounding rules for upper and lower limits and target weight in modeling (needed only when expressions are used)
  - Rounding and displaying upper and lower limit and target expressions to the defined number of decimal places
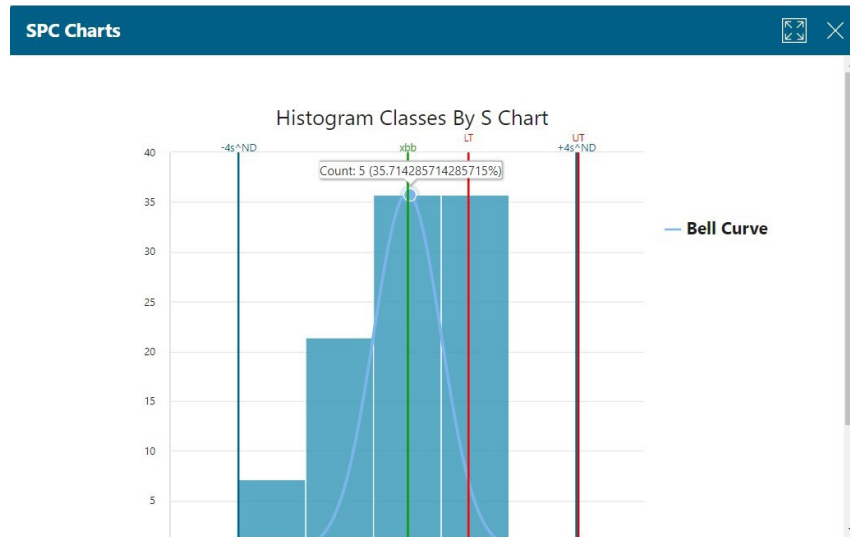
In-line SPC enhancements
- Add support for histogram and process capability charts
- Supports Westinghouse/Western Electric SPC rules

Outbound message enhancements
- Delivers a modeling page called outbound connection to configure authentication with external applications by providing the URL and an optional username and password
- Separates the outbound connection page into two pop-ups:
  – Existing Opcenter Connect MOM popup that supports backward compatibility of sending outbound messages via the Opcenter Connect MOM application
  – Adds a popup called Opcenter Generic RESTful API that is dedicated to sending outbound messages to external applications via the RESTful API

Job management and parts management
- Promotes the job and parts management capabilities that were previously available in the semiconductor application to be available in Opcenter Execution Core
- Job management
  – Allows you to schedule, administer and track resource maintenance jobs
  – Includes job configuration and job creation
  – Supports auto job creation when maintenance is triggered as well as manual job creation against a resource or equipment
- Parts management
  – Enables spare parts management for resources
  – Can request, assign and issue spare parts
  – Both are licensed with the Opcenter Maintenance Management module

Intraplant logistics (IPL) integration enhancements

- Enhances the existing external permissions that are pre-configured with the Opcenter Intra Plant Logistics (IPL) required permissions

- Allows for configuring an IPL button embedded into the core portal menu that directly opens the IPL portal

Manufacturing operation page enhancements

- Promotes display of documents to Opcenter Execution Core workspace and continues support displaying NPI jobs in Electronics workspace

- Enhances material requirements to support detecting high-volume resource setup configured materials

- Enhances material requirements in the industry workspace to support material queue configured materials

Industry defect shop floor page enhancements

- Enhances the page to support the following functionalities:

  – Repair a defect, reopen a repaired defect and delete a defect

  – Change the defect reason of an existing defect

  – View repair advisor and history information for a selected defect

  – View documents and notes associated to a defect

  – Export defect information from the grid

Additional enhancements

- Updates the styling of several portal controls including:

  – Button

  – Switch

  – Select control

  – Tab

  – Link

- Improves the historical record collection for high-performance engine (HPE) transactions

Technology enhancements

- Chrome 110+

- Edge Chromium 110+

- Windows 11