



DIGITAL INDUSTRIES SOFTWARE

What's new in Opcenter EX MDD 2210

Supporting a simpler containerization deployment model

Benefits

- Supports a simpler containerization deployment model
- Delivers an enhanced RESTful API for improved productivity, efficiency and quality
- Provides greater control and enforcement of collected data and computations
- Introduces improved flexibility for application integration
- Delivers enhanced security and technology support

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 2210, which is part of the Siemens Xcelerator portfolio, the comprehensive and integrated portfolio of software, hardware and services, delivers powerful new enhancements to improve the application's capabilities and security. A containerization deployment model simplifies application deployment and supports customer cloud strategies. An enhanced representational state transfer application programming interface (RESTful API) facilitates streamlined interfacing and integration with the application. Enhancing data collection and computation capabilities enables greater

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control and enforcement of data point formats. Enhanced messaging provides for more flexible application integration. Finally, we've expanded support to offer access to the most current set of technologies.

Capabilities

Containerization

- Enables containerization application deployment on Microsoft Azure
- Supports Microsoft SQL Server for storing production data
- Delivers Docker generated Windows based containers
- Supports Kubernetes for container orchestration
- Shares configuration files such as metadata and portal pages that can be maintained via cloud storage

RESTful API

Extends the configuration tasks in Management Studio to support:

- Enabling and disabling of on-demand dynamic link libraries (DLLs)
- Storing REST API authentication credentials
- Stopping REST API services
- Improves the performance of transaction execution per second by 15 percent
- Enhances discovery using the Swagger user interface (UI)
- Delivers enhanced documentation by providing examples in Postman collection formats

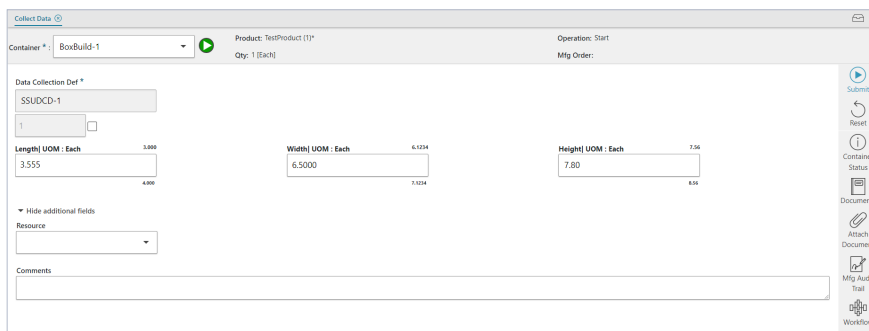
Decimal scale enforcement

Allows storing of numeric values captured as part of transaction executions, including trailing zeroes for the following transactions:

- Change quantity
- Weight issue
- Component issue

Extends the computation modeling and shop floor pages to also support:

- Making sure upper and lower limits match the defined decimal scale
- Rounding results to the decimal scale



In-line statistical process control enhancements

- Adds support for dynamic query on statistical process control (SPC) chart and SPC query modeling objects
- Allows users to configure labels on the X-axis
- Allows users to configure the data displayed in tool tips

Single sign-on enhancements

- Supports the Security Assertion Markup Language (SAML) adapter with the User Management Component (UMC)
- Supports the MyID identity provider via UMC

Outbound message enhancements

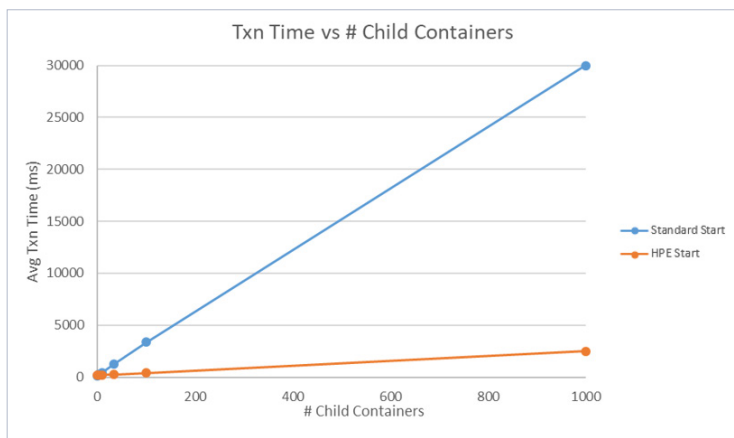
- Supports additional outbound message formats
 - XML, JSON, RAW
- Enhances response and error handling
- Improves configuration with external applications

Opcenter Intra-plant logistics configuration UI – smart settings

- Integrates the Opcenter Intra-plant logistics (IPL) configuration of factory objects with Opcenter Execution Core
- Provides a new UI for managing the Opcenter IPL settings of equipment defined in the Opcenter Execution Core factory model
- Integrates with industry solutions for easy installation and configuration

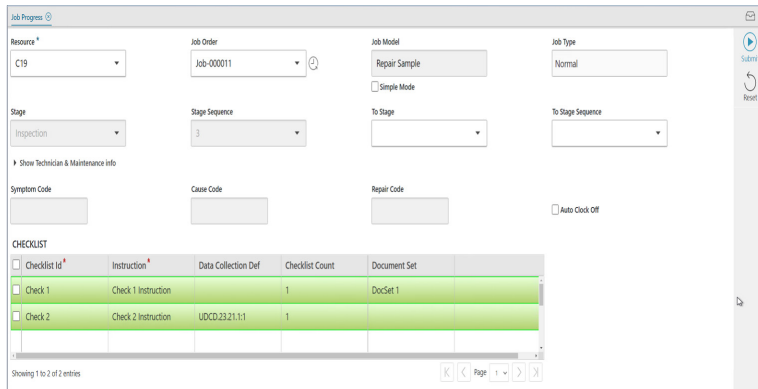
High-performance engine enhancements

- Enhances the high-performance engine (HPE) DBStart transaction to return the list of generated container names in the response document
- Optimizes the Oracle HPE framework with respect to the DBAssociate transaction
- Adds new database indexes to better support high-volume processing



Maintenance job management

- Promotes the capability that was previously available in the semiconductor application to Opcenter Execution Core
- Includes job configuration and job creation
- Supports automatic job creation when maintenance is triggered as well as manual job creation assigned to a resource or equipment
- Licensed with the maintenance management module



Additional enhancements

- Menu interaction improvements
 - Pins the menu panel and repositions the page based on the available browser space
 - Supports expanding submenus by clicking on the menu element, not just the arrow
 - Dynamically resizes the width of the menu panel based on the largest item
 - Seamlessly opens a new menu when an existing item is already open

Technology enhancements

- Chrome 99+
- Edge Chromium 99+
- Update of Inline SPC to MOM.SPC.22.06.90476
- Bootstrap 5.1.3
- Windows Server 2022
- Microsoft Access Database Engine 2016
- Siemens Web Framework (SWF) 4.6
- Removed dependency on SharpZipLib
- Docker 20.10.7
- Kubernetes 1.23.5
- Helm 3.7.1

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