DIGITAL INDUSTRIES SOFTWARE

What's new in Opcenter Execution Electronics 2210

Using Opcenter Intra Plant Logistics to improve configuration efficiency for the MES

Benefits

- Improved configuration efficiency for Manufacturing Execution and Intraplant Logistic

- Increase inspection efficiency and process security

- Reduce total cost of ownership

- Cut deployment time and cost

- Improve serviceability

- Enhance process security and debugging functionality

Summary

Opcenter™ Execution Electronics (EX EL) software is a digital manufacturing solution for the electronics industry. It is built on an industry-leading manufacturing execution system (MES) platform for the electronics, medical device and semiconductor industries. You can use Opcenter EX EL in the electronics value chain for printed circuit board (PCB), mechanical and box-build processes. Opcenter EX EL is part of the Siemens Xcelerator portfolio, the comprehensive and integrated portfolio of software, hardware and services.

The solution includes manufacturing operations management (MOM) capabilities such as manufacturing execution, quality management, materials management, planning and scheduling and manufacturing intelligence. This facilitates direct connectivity to machines and production lines.

Electronics manufacturers can rapidly provide new product introduction (NPI) and reduce time-to-market to increase their competitive edge in a changing consumer-driven marketplace.
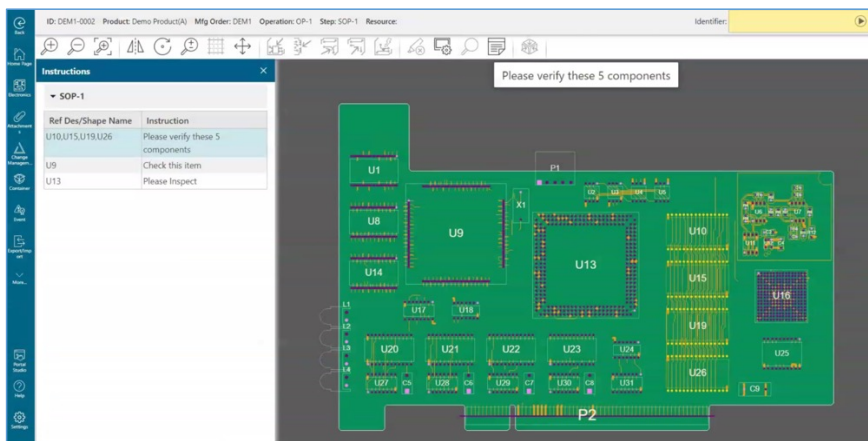
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OP EX Electronics version 2210 provides an improved integration with Opcenter Intraplant Logistic, technology improvements and new features that increase efficiency in electronic production.

Capabilities

Production client enhancement – PCB first article inspection includes:

- New functionality that will guide operators through the specific components that need to be inspected and recorded when the inspection is complete
- Option added to a spec to control if first article will be performed and whether it uses configured NPI instructions or will go through all components
- Option to control the frequency that the inspection must be performed
- Enhanced the NPI import functionality to allow for importing table/form data as instructions
- New NPI import option to control if confirmation is required and the frequency of the confirmation
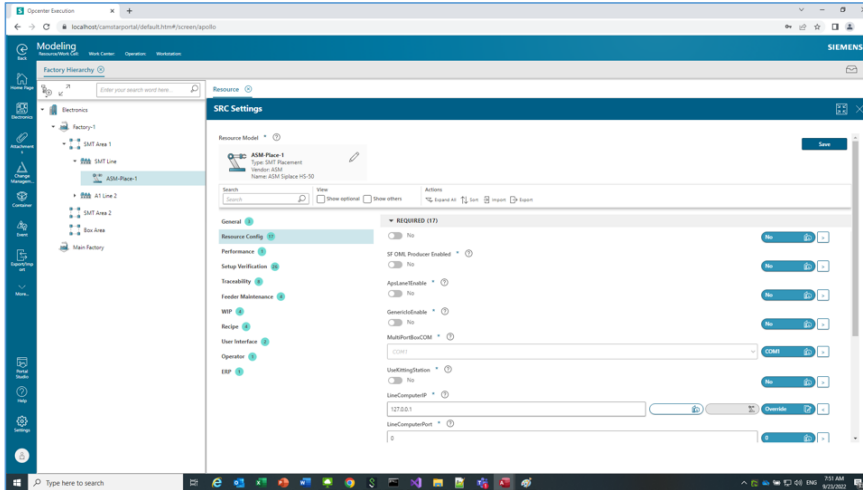

High-volume traceability model

- New data model for tracking the equipment setup of the product loaded to the equipment
- Resources using the new high-volume setup configuration will link each container produced through the resource to the current setup
- Reduces the number of database records required to track high-density products or high-volume unit production
- Integrated with the standard component issue data model

Opcenter Intra Plant Logistics configuration UI – smart settings
- Integrates the Opcenter IPL configuration of factory objects with Opcenter Execution Core
- Provides a new UI for managing Opcenter IPL settings of equipment defined in the Opcenter Execution Core factory model
- Integrates with the industry solutions configuration for easy installation
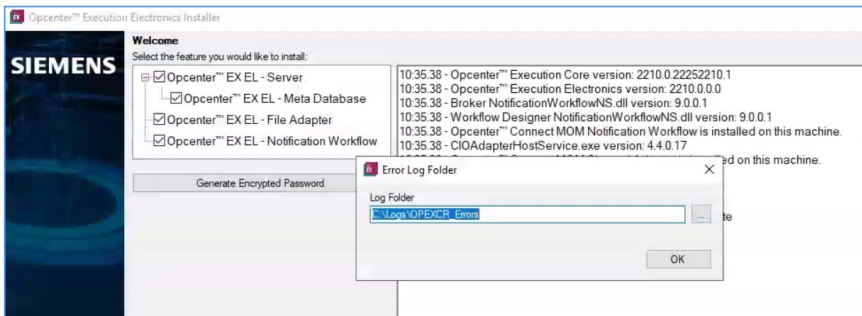

Master data management (MDM) upgrade tool for a factory model
- Enhances the factory hierarchy page to allow you to import data from Opcenter Execution Electronics internet of things (IoT) MSS
- Automatically creates the needed line and equipment objects as resources in Opcenter Execution Core and saves the IPL settings for each factory item imported
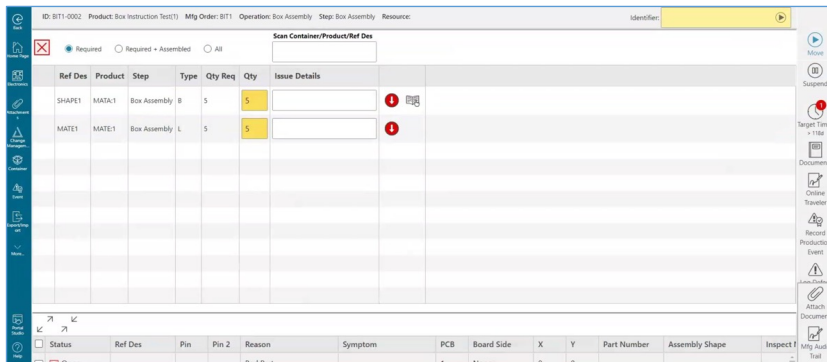
Opcenter Connect MOM error handling workflow
- Implements a new workflow that analyzes the result of a transaction submitted to Opcenter Execute Core and detects failures in the transaction
- Automatically saves the original message that resulted in an error as well as the response message containing the error

Production client user experience (UX) enhancements

- Configures the buttons available in the command bar
- Controls the sequence, visibility and text displayed for each button
- Introduces support for the attached document and record production event buttons

REST API enhancements

- Extends the configuration tasks in management studio to support:
  – Enabling and disabling on-demand DLLs
  – Ability to enter REST API authentication credentials
  – Ability to stop REST API services
- Improves the performance of transaction execution per second by 15 percent
- Improves the discoverability using Swagger UI
- Delivers enhanced documentation by providing examples in Postman collection formats

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

Technology enhancements

- Chrome 103+
- Edge Chromium 103+
- Windows Server 2022
- Microsoft Access Database Engine 2016
- Siemens Web Framework (SWF) 4.6

Product release fixes

- For the list of product releases (PRs) addressed, please see the release notes

See more details in related documents for Opcenter EX Medical Device and Diagnostics 2210.

Siemens Digital Industries Software
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Americas
1 800 498 5351

Europe
00 800 70002222

Asia-Pacific
001 800 03061910

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