DIGITAL INDUSTRIES SOFTWARE

What's new in Opcenter Execution Semiconductor 2304

Delivering an enhanced RESTful API to improve productivity and quality

Benefits

- Delivers an enhanced RESTful API to improve productivity and quality
- Provides enhanced transactions and functionality supporting the single-item tracking model
- Leverages improved user experience and user efficiency with enhancements to operator landing UI
- Allows users to view historic data collections and simplified on-line traveler user interface

Summary

Opcenter™ Execution Semiconductor (EX SM) software is a comprehensive manufacturing execution system (MES) that enables users at wafer fabrication factories and assembly and test sites to meet traceability requirements, control production and integrate the shop floor into their enterprise resource planning (ERP) system and extended enterprise. Opcenter Execution Semiconductor addresses your needs on a configurable, scalable and modular platform for production. Opcenter EX SM is part of the Siemens Xcelerator business platform of software, hardware and services.

This release contains single-item tracking (SIT) model enhancements, new and updated user interfaces (UIs), high-performance engine (HPE) transactional enhancements, representational state transfer application programming interface (RESTful API) improvements and more.

New features and enhancements

Single-item tracking model enhancements

Nested carrier validation

- Allows users to validate the inner carrier when it is assigned in a parent carrier during track-in or track-out

Carrier family inquiry service enhancement

- Extends the carrier family inquiry service to be able to return inner carrier family for both input and output carrier ports

Multiple attribute transaction (HPE)

- Introduces a new transaction that supports changing multiple attributes for multiple lots in a single transaction
- This transaction is primarily used in highly automated factories

DBContainerClosure transaction (HPE) enhancements

- Ability to close or rename a carrier container during processing
- Ability to disassociate and terminate all child lots in a parent carrier

DBRenameContainer transaction (HPE) enhancement

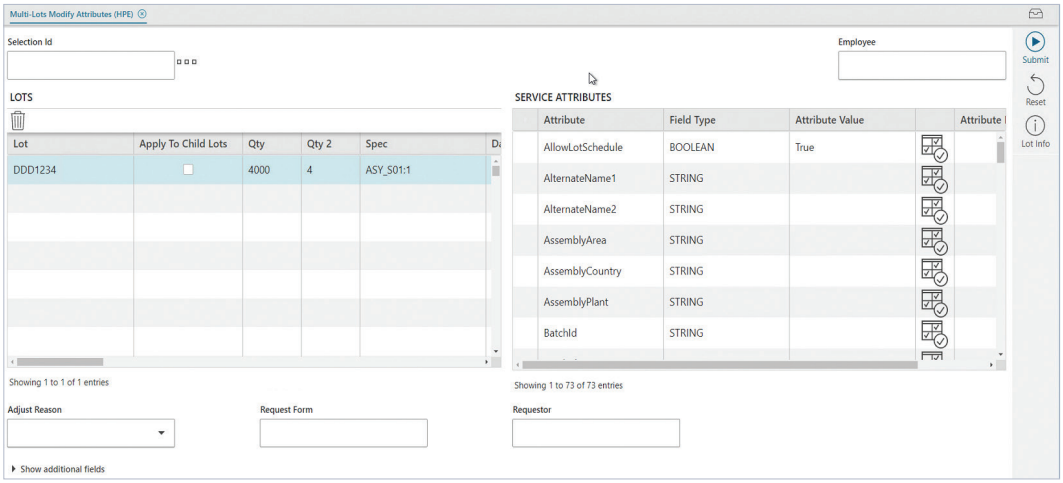
- Ability to rename child containers when within parent container

High-performance engine transactional improvements

- Enhanced the history record collection for all HPE transactions supporting the SIT model

Enhanced user interfaces

- Enhanced operator landing page
  - Line assignment activation for semiconductors
    - Enabled the line assignment functionality from core to semi to use as a filter in the UI
    - Allows operators to select their line assignment by resource/work cell, work center, operation and workstation
    - Extended line assignment to support assignment to the spec
    - Default assignments on employee and terminal modeling objects
  - New filters on lot and equipment sections
    - Filter lot section by text and process state (move-in, track-in, track-out or move-out)
    - Filter equipment section by text and status
  - Equipment details icon added to the command bar



Enhanced user interfaces

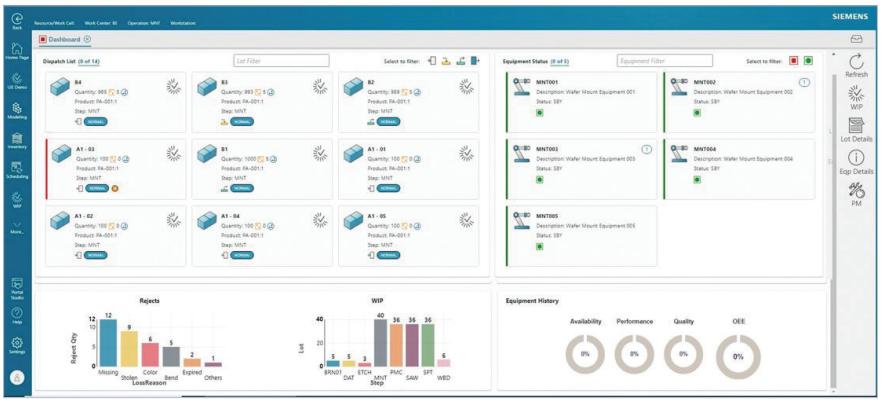
- Shop floor UIs
  - Historic data collection in lot info UI
    - Allows users to review historic data collections as part of lot info page
  - On-line traveler enhancements
    - Improved page layout for enhanced user experience

Portal controls styling updates

- Button
- Switch
- Select control
- Tab
- Link

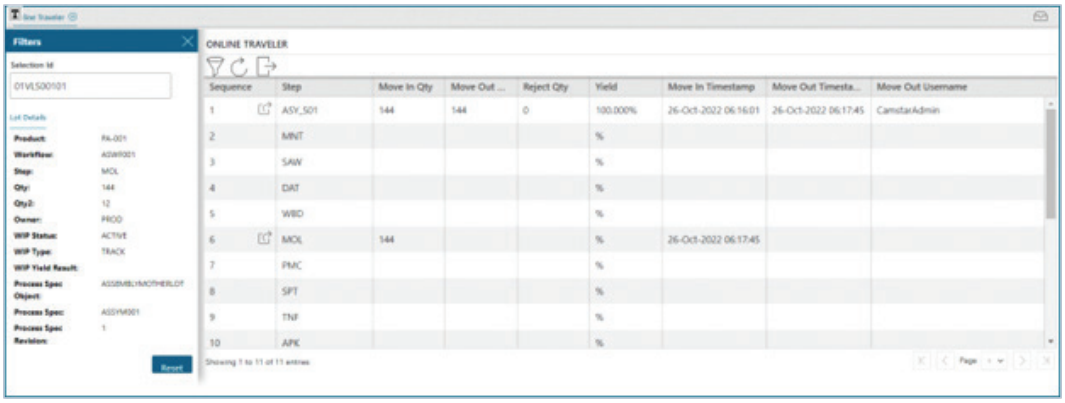
Semiconductor – electronics synergy (phase two)

This is the second phase of migrating objects to enable core, semiconductor and electronics products to be run in a single installation. This will enable a single installation that can configure and execute the core process models, electronics process models and semiconductor process models within a single environment.



Migrated semi's maintenance parts management functionality includes modeling and shop floor objects to the core product and aligning the objects with electronics.

- This includes job management objects that had parts management components
- This release completes the job management and parts management functional object migration
- This functionality is new to core and Opcenter Execution Medical Device and Diagnostics (MD&D) products
- Functionality will provide a solution for vertically integrated manufacturers



RESTful API enhancements (core)

- Provides the ability to disable the transaction commit allowing users to test and debug a transaction without committing it
- Expands list functionality by adding an endpoint 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 via the Swagger interface
  - Supporting the ability to try out a transaction from the Swagger interface

Outbound message enhancements (core)

- Delivers a modeling page called *outbound connection* to configure authentication with external applications by providing the URL and 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 *Generic RESTful API* that is dedicated to sending outbound messages to external applications via the RESTful API

Product release fixes

- For the list of PRs addressed, please see the release notes

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