

DIGITAL INDUSTRIES SOFTWARE

What's new in Opcenter Execution Electronics 8.7

Improve scheduling and UX with planned machine downtime recognition and higher production throughput

Benefits

- Improve scheduling results with planned machine downtime recognition and higher production throughput
- Use standardized recipe naming conventions with simple configuration
- Improve operator efficiency with less manual work
- Improve traceability and compliance
- Improve performance of machine connectivity

Summary

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

The solution includes best-in-class 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, which increases their competitive edge in a rapidly changing, consumer-driven marketplace.

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[siemens.com/opcenter](https://www.siemens.com/opcenter)

OP EX Electronics version 8.7 provides an improved Opcenter scheduling integration and user experience (UX) and new features that increase efficiency in electronic production.

Capabilities

Electronic device history report improvements

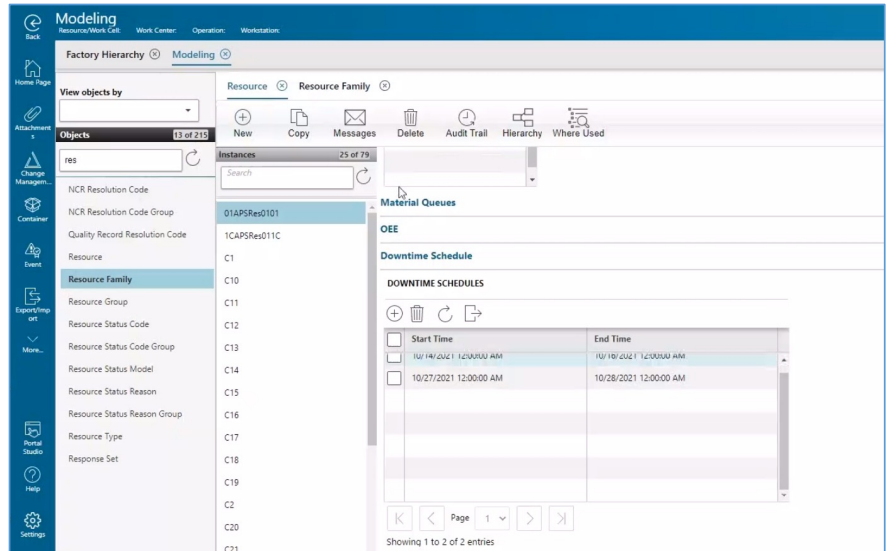
- Provide new electronics-specific sections to the existing report for:
 - Repair actions for defects
 - Physical address information
 - Workflow operations that show the complete workflow including incomplete steps and total in-process time at each step
 - Tool usage that shows which tools were loaded to a resource when the container processed it
 - Temporary deviation authorization (TDA) information
 - Recipe information, which is recorded for transactions included in activity log and workflow operations

Scheduling integration enhancements

- Scheduled downtime that is defined on resources and tools are transferred to APS for planned maintenance when generating the schedule
- Job grouping data is now transferred to OP EX Electronics and is available in the manufacturing (MFG) order scheduling data for Opcenter Intra Plant Logistic (IPL)

Recipe pattern

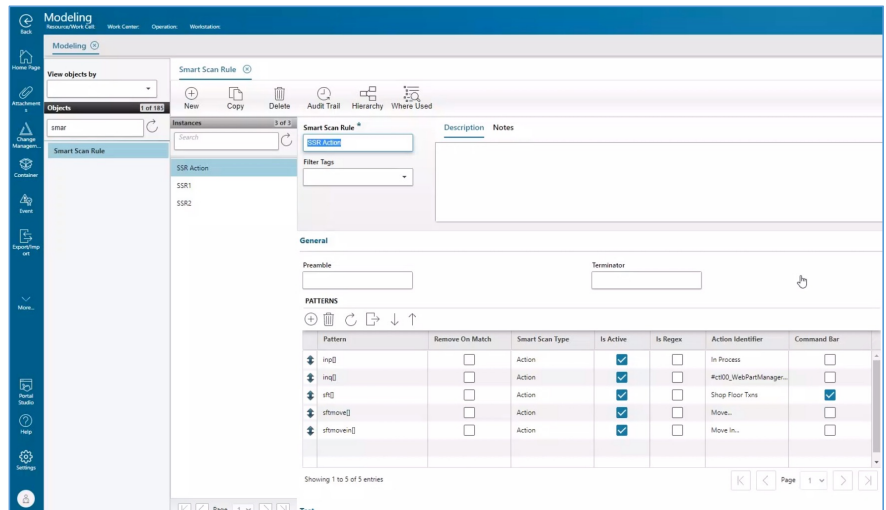
- Ability to define a recipe pattern on factory and resources
- Standard unified expression syntax is dynamically resolved at runtime to determine the required recipe
- Recipe validation when no recipe matrix is defined on the MFG order or product



Scheduling integration enhancements.

Smart scan rule enhancement

- Ability to configure a pattern to perform an action such as clicking a button on the page or setting focus to a particular field
- The control can be specified using the specific ID of the control or the caption of the control (for example, the text of the button)



Smart scan rule enhancement.

OC CN MOM configuration enhancements

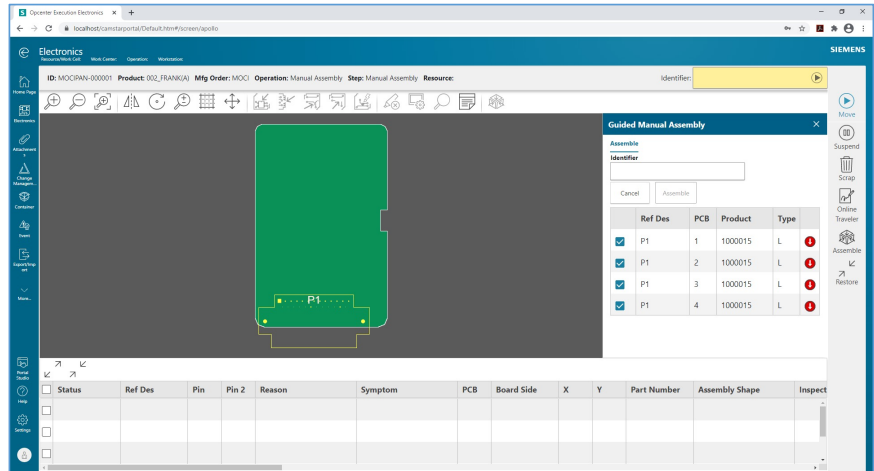
- Appropriate message type update to use the direct dispatch functionality of Connect (CN) MOM to improve message handling performance
- Possibility to switch to optimized dispatch rule and message channel configuration for improved performance defined transactions, which do not require Opcenter Connect (OC) MOM grouping functionality

Production client PCB manual assembly enhancements

- Updated spec option to perform auto-open manual assembly for printed circuit board (PCB) container sessions
- Hide surface mounted technology (SMT) components option changed to only through hole technology (THT) components (so components with no technology are not shown by default)
- Material items with a defined sequence are assembled at the current step and guide the operator through assembling those components in sequence
- Material items without defined sequences are assembled at the current step and display only those components until they are assembled

MFG operation page enhancements

- Ability to view documents in the core workspace
- Ability to edit comments in the core workspace
- Material requirements table shows the current quantity of any loaded container and the required quantity
- Material requirements grid uses a new icon to indicate if the requirement is coming from a feeder plan instead of the material list
- Material requirements grid uses colored text if a requirement is met, not met or is not a requirement but the material is loaded to the resource
- An option to hide loaded material that is not a requirement for the MFG order/resource



Production client PCB manual assembly enhancements.

Material Requirements Feeder Plan: Material Plan Hide Non-Requirement

Product	Status	Feeder Plan	Container (Qty)/Lot	Quantity	Slot	Producing Order
Material A:1	☐	☑	EXPIREMATA_001-SN (300)	1000	01	
Material C:1	☑	☑	MATC_LOT_1000		03	
Material D:1	☑	☑	MATD_LOT_2000		04	
Material B:1	☐	☑	MATB-00002 (400)	1000		
A5E00711620:1	⬇			1000		
A5E01074311:1	⬇			1000		
NOINS:1	⬇			1000		
Material F:1	☑		MATF_LOT_500			

MFG operation page enhancements.

Relevant enhancements from OP EX Core 8.7 for electronics

- Representational state transfer (REST) API enhancements
- In-line statistical process control (SPC) enhancements
- High performance engine (HPE)
- Summary tables
- Xcelerator Share integration
- Single sign on
- Security enhancements
- Technology enhancements

See details in related documents for Opcenter EX Medical Device and Diagnostics 8.7.

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