



SIEMENS DIGITAL INDUSTRIES SOFTWARE

What's new in Opcenter Execution Electronics 8.6

Providing improved production efficiency, visibility and quality

Benefits

- Analyze and report target KPIs against actual KPIs
- Improved efficiency of carrier operations on the shop floor
- Improved quality KPIs visibility, user interfaces and usability
- Secure production process and quality through forced assembly sequence
- Improved compliance through enforced material origin
- Improved shop floor connection and higher automation to laser printer equipment

Summary

Opcenter™ Execution Electronics software is a full digital manufacturing solution for the electronics industry that is built on an industry-leading manufacturing execution system (MES) platform for the medical device and semiconductor industries. Opcenter Execution Electronics is used throughout the electronics value chain, including for printed circuit board (PCB) and mechanical and box-build processes. Opcenter Execution 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 as well as manufacturing intelligence, facilitating direct connectivity to machines and production lines.

Electronics manufacturers are realizing faster new product introduction (NPI) and time-to-market, while improving their ability to compete in a rapidly changing, consumer-driven marketplace.

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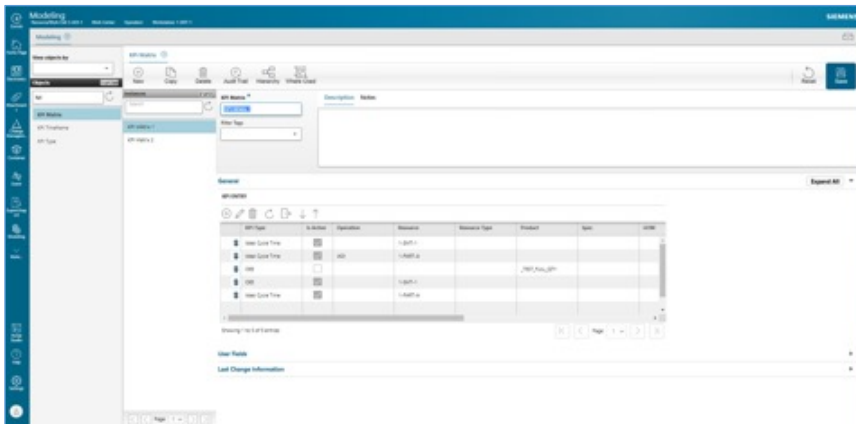
[siemens.com/software](https://www.siemens.com/software)

Opcenter Execution Electronics version 8.6 provides enhanced and new functionality to handle electronics PCB and box production on the shop floor and provide improved online key performance indicators (KPIs).

Capabilities

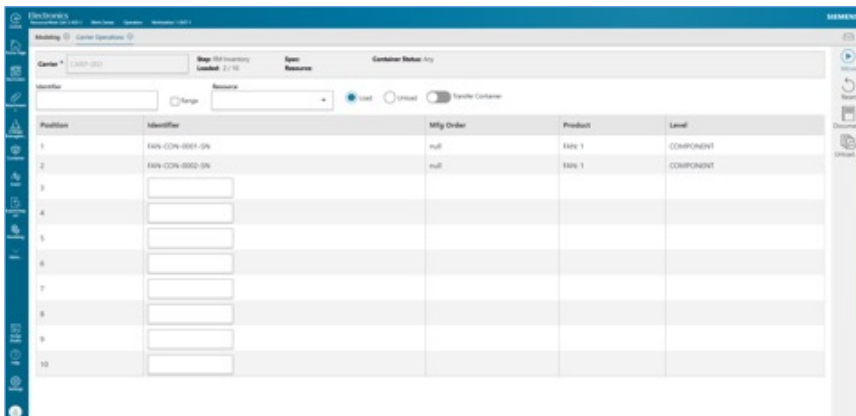
KPI matrix

- Provides the ability to define target level values for KPIs
- Target values can be assigned in the matrix to a product, resource, resource type, operation and specification
- KPI data are used by Opcenter Intelligence Electronics to compare actual shop floor values with target values



Carrier operations page enhancements

- Carriers can be assigned to a resource when moving to a step
- Page will respect the resource field in the line assignment settings
- Carrier scanned on electronic procedures page is now passed to the carrier operations page when the page is assigned as a task
- Ability to view all documents associated to all containers loaded to a carrier
- Ability to scan manufacturing order and load all or multiple containers of the order in a single transaction
- Ability to scan a range of serial numbers to load multiple containers in a single transaction
- Ability to reserve a carrier for a specific manufacturing order or product and only allow containers matching the order or product to be loaded



Operational dashboard defects per million opportunities

- New page displays dashboard reports for defects per million opportunities (DPMO), yield (final yield), defects per unit (DPU) and defect count
- Supports default configuration to define the time period, charts to display how to group the data, and refresh interval
- Provides the option to export the underlying data used to generate the dashboard reports

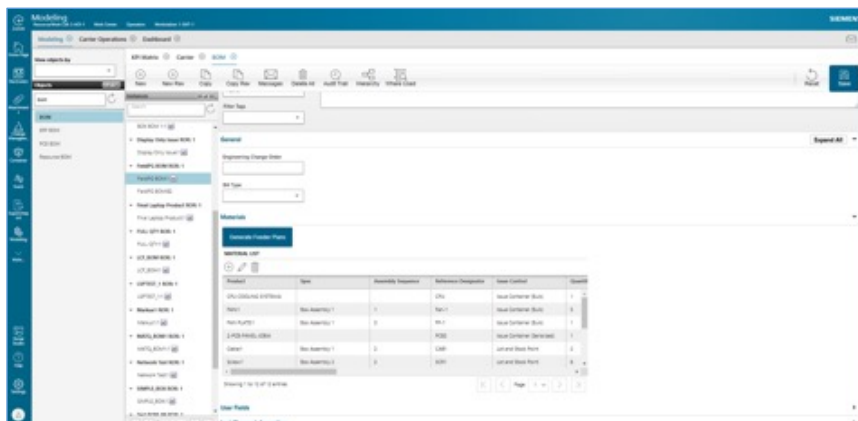


Manufacturing order network for consuming materials

- Manage the relationship between consuming and consumed products
- Configure and enforce that a finished good product consumes only sub-products that are produced in a specifically defined manufacturing order or a set of manufacturing orders
- The container that should be issued to a consuming order must belong to a producing order defined in the material list from the consuming order

Material list/BOM item assembly sequence

- Ability to define the sequence in which material items must be issued at specific steps
- Production client box build updated to display the specific item that must be assembled next and require the operator to perform the issue in sequence
- Standard component issue and component issue – advanced pages updated to display the material requirements in the appropriate sequence



Material Management/IoT integration enhancements

- Support for new message sent by Opcenter Execution Electronics IoT for laser marker equipment integration to validate the data against existing panel/PCB containers in Opcenter Execution Electronics
- Added configuration option to define how failing marking messages will be handled, and how the response is provided back to the equipment
- Update Opcenter Execution Electronics compound transactions to appropriately save the message ID for all history mainline records. This allows for easy tracking of all messages between Opcenter Execution Electronics IoT, Opcenter Connect MOM and Opcenter Execution Electronics

Additional enhancements

- Framework, graphical user interface (GUI) improvements
- Updated the "Container Start - Two Level" page to support the Opcenter Execution Electronics child numbering rule definition
- Updated the "Container Start - Two Level" page to allow specifying up to three serial numbers for the parent (panel) container and each child (PCB) container

Relevant enhancements from Opcenter Execution Core 8.6 for electronics

- In-line statistical process control (SPC) enhancements
- Security enhancements
- Technology enhancements

See details in related documents for Opcenter Execution Medical Device and Diagnostics 8.6

Relevant Opcenter Execution Electronics IoT, Opcenter Material Management and Opcenter Intelligence 14.9 enhancements

- Opcenter Execution Electronics IoT, new and enhanced drivers
- Opcenter Execution Electronics Material Management enhancements
- Opcenter Execution Electronics Intelligence enhancements

See details in related documents

Siemens Digital
Industries Software
[siemens.com/software](https://www.siemens.com/software)

Americas
1 800 498 5351

Europe
00 800 70002222

Asia-Pacific
001 800 03061910

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