Summary
Opcenter™ Execution Electronics software is a full digital manufacturing solution for the electronics industry. Built on an industry-leading manufacturing execution system (MES) platform for the medical device and semiconductor industries, Opcenter Execution Electronics, which is part of Xcelerator, the comprehensive and integrated portfolio of software and services from Siemens Digital Industries Software, extends throughout the electronics value chain, including printed circuit board (PCB), mechanical and box-build processes. The solution includes best-in-class manufacturing operations management (MOM) capabilities from Siemens, including Valor™ software, such as manufacturing execution, quality management, materials management, planning and scheduling and manufacturing intelligence, with direct connectivity to machines and production lines.
New features for scanning complex barcodes, out-of-the-box (OOTB) physical address management and improved usability make Opcenter Execution Electronics more efficient, easier to use and improves operator productivity.

Benefits
• Improve shop floor efficiency and guide operations
• Provide better production quality
• Deliver better process security and fulfill compliance
• Rework usability

Features
• Executes electronics production client in an eProcedure
• Accepts scanned container from eProcedure page and immediately shows session instead of displaying serial number entry

What’s new in Opcenter Execution Electronics 8.3
Providing enhanced shop floor efficiency, security and production quality

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- Provides guidance for mixed operations for electronics PCB and box build

Enhance support of hexadecimal and complex numbering rules
New option to specify the numbering rule uses hexadecimal values.
- This provides the ability for the resolved sequence value to be displayed as a hexadecimal number.

Smart scanning, client site pattern support
- Smart scanning configuration supports either regular expressions or a custom pattern syntax
- Facilitate more complex pattern matching of a smart scanned value, and multiple items of data can be extracted from a single value and populate multiple fields on a page

Physical address/MAC management
- New physical address management feature that allows for configuring address pools for multimedia access numbers (MAC) and international mobile equipment identity (IMEI) and custom address types
- Address pool and required physical address quantities that can be configured for a manufacturing order or a product

Show target time per operation from ERP in production client
- Production client shows a target time button in the command bar and displays target time for the container
- Time remaining is displayed in command bar
- Notification badges are added to target times button when elapsed time reaches 75 percent target time, and again when elapsed time exceeds target time
**UX enhancements**
- SN entry page enhancement enables filtering waiting list by manufacturing order or product
- Production client optimized to detect if only one rework reason is available based on configuration for the current session and the container will be sent on rework path – and no longer prompt operator to specify the reason
- Display defect create date and repair date in defect grid
- Support scanning multiple individual containers and starting a session
- Hide PCB button toolbar when displaying bill-of-materials (BOM) grid. This provides less cluttered user interface (UI) and provides more area to show BOM grid
- A new configurable option allows using the standard container grid list or the electronics identifier field to specify container

**Automated manufacturing order reassign**
- Option on spec controls whether manufacturing order reassign will be performed in production client when containers are moved
- Operator is prompted to select the new manufacturing order when container(s) are moved, and the manufacturing order reassign transaction is automatically performed
- This is a function that is required for products that are built in different substages

**Shop floor integration enhancements**
- Reporting component issue from production client to material management (MM). Material consumption messages are sent outbound to Valor for all component issue and component replace transactions, not just for replacement done as part of a defect repair
- New “combine message” configuration for quality data events (defect transactions) on a resource to allow Open Manufacturing Language (OML) service to know if move in, defect and move transactions can be combined to a single Opcenter transaction
- Updated each OML connector to support logging configuration