Expanding material management capabilities using electronic kanban management

Benefits
- Expand material management capabilities using electronic kanban management
- Deliver enhanced user experience for key areas of the application
- Support more flexible auto-numbering capabilities
- Extend the ability to scan, parse and populate data from a barcode
- Deliver enhanced security and reduces application vulnerability
- Deliver expanded technology support

Summary
Opcenter™ Execution Medical Device and Diagnostics software serves as the foundation for leading global manufacturers and product innovators who want to enable rapid change, lean manufacturing, consistent quality output, rapid new product introduction (NPI) and higher profit margins. Integrated with enterprise resource planning (ERP), product lifecycle management (PLM), supply chain management (SCM), customer relationship management (CRM) and the shop floor, Opcenter Execution Medical Device and Diagnostics completes the technology infrastructure for manufacturing. Solutions are architected for global use, enabling worldwide visibility for real-time control and mission-critical operations.

Opcenter Execution Medical Device and Diagnostics 8.3, which is part of Xcelerator, the comprehensive and integrated portfolio of software and services from Siemens Digital Industries Software, delivers powerful new enhancements and features to improve the application’s capabilities and security. Electronic kanban allows manufacturers to efficiently manage their locations and ensure material is properly replenished. The enhancements provide a more efficient user experience for key parts of the application. The expanded auto-numbering capabilities give manufacturers greater control over their identifier management. Key security enhancements, such as reducing session and file access vulnerability, provide an even higher level of security for the application. Finally, our expanded set of supported technologies offer access to the most up-to-date set of solutions to choose from.
Capabilities

UX and framework enhancements
- Redesigned manufacturing audit trail and resource audit trail pages
- Drill in to see details
- More room for rows of data
- Removal of nested grids

Electronic kanban
- Extends material queue – simple page to allow for a material request definition
- Can trigger automatic material request
- Provides a new page to acknowledge receipt of the material for the request
- Refactored existing material queue pages
- Manage material queue - simple
- Manage material queue - advanced
- Manage inventory

Smart scanning enhancements
- Provides the ability to define smart scanning rules that use any number of configurable parsing patterns with both custom parsing syntax and regular expressions
- Capable of extracting multiple data values from a single scanned value
- Can assign the smart scanning rules to a factory or resource
- Supports reading and parsing standard GS1 labels
Numbering rule enhancements
- Extends numbering rules to support alphanumeric/hexadecimal sequence numbers
- Supports all transactions that currently support auto numbering

Security enhancements
- Addresses access vulnerability related to using a fixed session cookie
- Prevents uploading of files to the instance server without authenticated access
- Properly terminates a session on successful logout

Additional enhancements
- Portal Studio 2.0
  - Delivers right-click menu on the group folder in the components catalog
  - Delivers right-click menu for virtual pages in components catalog
  - Adds where-used tab for web parts
  - Enables mobile barcode scanning by default (still requires license)

Technology enhancements
- Angular 9.1.0
- jQuery 3.5.1
- jsTree 3.3.9
- jsPlumb 2.13.1
- TinyMCE 5.3.0
- MS SQL Server 2019 (retroactive support starting with 8.0)