Opcenter™ Execution Semiconductor software (formerly known as Camstar™ Semiconductor suite) is a comprehensive manufacturing execution system (MES) that enables both 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, which is part of the Xcelerator™ portfolio, the comprehensive and integrated portfolio of software and services from Siemens Digital Industries Software, addresses your needs for a configurable, scalable and modular production platform.

This release completes the integration of Siemens Opcenter Execution Semiconductor with the new In-Line Statistical Process Control (SPC) module. This release introduces enhancements to single-item tracking for two-level lots, work order dispatches, container closures, carrier operations and two new refactored user interfaces (UIs).

**Benefits**
- Integrate In-Line Statistical Process Control module using MOM SPC components
- Use new pre-trackIn setup feature to improve operator efficiency and performance
- Share documents with Teamcenter users by integrating Xcelerator Share
- Use single item tracking enhancements to support improved two-level lot processing and transactional performance for work order dispatch, container closure and carrier operations
- Provide two refactored UIs with improved search functionality

**Summary**
Opcenter™ Execution Semiconductor software (formerly known as Camstar™ Semiconductor suite) is a comprehensive manufacturing execution system (MES) that enables both 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, which is part of the Xcelerator™ portfolio, the comprehensive and integrated portfolio of software and services from Siemens Digital Industries Software, addresses your needs for a configurable, scalable and modular production platform.

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Features

Integrating the new in-line Statistical Process Control module

- Delivers real-time SPC analysis as production and quality data are collected with configurable automatic dispositions on failures
- Operators can view and interact with real-time charts that provide an immediate SPC analysis of the collected data
- There is a new manufacturing operations management (MOM) common component SPC module, eliminating the third-party eServer (Statit) engine
- The In-Line Statistical Process Control module supports previously available capabilities as previous module
- Offline analysis will continue to be performed via the third-party custom quality control tool
- Integration of module for support of ad hoc work-in-process (WIP) data setup and ad hoc SPC functionality
- Integration of module to support real-time SPC monitoring functionality
- Seamless migration of existing SPC chart configurations to support the new In-Line Statistical Process Control functionality

New features and enhancements

Pre-trackin setup verification

- Provides the ability to perform and verify equipment setups for tooling, masks and materials for the next lot to be processed. Can be executed as the current lot is processing
- UI displays requirements (tooling, masks and/or materials) for the next lot to be processed based on lot, process type and equipment selection
- Provides ability to load and unload tools and masks into configured equipment storage library for future setup
- Provides ability to load materials onto equipment
- Benefit of pre-trackin setup is it reduces setup time by preloading of tooling, mask and materials and reducing trackin failures, providing improved operator efficiency and performance
Single sign-on

- Supports the ability to log into the Opcenter Execution portal with single sign-on mechanism
- Leverages Siemens Security and Access Management (SAM) authentication and User Management Component (UMC) authentication
- Configuration managed in Management Studio

Xcelerator Share integration

- Xcelerator Share is a Siemens SaaS platform that helps you collaborate on design of engineering projects in the cloud
- This integration allows uploading files such as standard operating procedures (SOP) or nonconformance reports
- Project access can be limited based on assigned access control
- Supports single sign-on to Xcelerator Share

Newly refactored UI pages

- Introducing new supervisor and technicians job UIs using new search page structure
- Search filters in left column
- Results grid on right
- Transaction icon displayed on command bar. Selection shows available transaction for the selected item(s) in results grid that can be executed
Single item tracking enhancements

Carrier operations extensions

- Ability to trigger the closure of the carrier container after it has been completely unloaded
- Loading and unloading carriers can be performed within all stages of the WIP main process (movein, trackin, trackout)
- Enhanced existing subservice high performance engine (HPE) transaction to support functionality
- Container validation logic can now be set to verify against: none, work order, parent start container. While carriers are loaded, validation logic is used to verify the loads of child lots based on these options – none, work order, parent start container

Work order dispatch extension and new schedule release (HPE) UI:

- Extended the work order dispatch to auto prepare all containers/lots when started
- Uses a subservice HPE transaction scsDBLotSchePrep
- Ability to auto assign the child lots to a carrier
- New HPE transaction to execute lot schedule release with a new UI
- Uses a new HPE transaction named scsDBLotScheRelease
Container closure enhancement:

- Extend the multi-container closure feature to support work order entries
- Ability to enter the work order, then the results are displayed in grid
- All parent containers
- Child containers within a parent lot
- Containers not associated with parent
- Selection of specific containers can now be made to close the desired containers
- A filter can be used to display specific matching container names
Optimized semi moveout and rework transactions to improve transactional performance:

- HPE hybrid transaction when parent/child lots are being processed

**Additional enhancements**

Support Oracle GoldenGate 19.1 and HVR 5.7 for homogeneous database replication (Oracle to Oracle, Microsoft SQL Server to Microsoft SQL Server).

Provides online help in German and Chinese.

**Problem report fixes**

- For the list of problem reports (PRs) addressed, please see the release notes