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# What's new in Opcenter Quality version 12.1

## Extended integration of Opcenter Quality Control with Teamcenter modules

### Benefits

- Simplifies licensing model for Opcenter Quality Control
- Integrates additional information and customer-specific data
- Enhances graphical support during the acquisition to guide the user faster to the appropriate inspection spot
- FMEA CS: Improves the MSRFMEA support to exchange FMEA data with suppliers or customers
- Calvin CS: Gages can be assigned to persons based upon a qualification matrix
- IPM CS: Enhances the management of large inspection plans: easier editing and changes

### Summary

Opcenter™ Quality software is a multi-lingual, cross-industry quality management system (QMS) that complies with international quality standards, including the International Organization for Standardization (ISO) 9001:2015, International Automotive Task Force (IATF) 16949:2016, Automotive Industry Action Group (AIAG) and German Automobile Industry Association (VDA). Opcenter Quality is a process-oriented modular system that supports the closed-loop quality product lifecycle and manages complexities for the planning, controlling and monitoring of processes and corporate quality. Opcenter is a part of the Xcelerator™ portfolio, a comprehensive and integrated portfolio of software and services from Siemens Digital Industries Software.

### Opcenter Quality Control

With the release of Opcenter Quality version 12.1, a new entry in the price book is available: Opcenter Quality Control.

This new product ID provides you with the functions and modules needed to ensure quality in incoming goods, production and outgoing goods. You can choose whether to carry out the inspection data acquisition web-based or acquire this data with the classic client-server-based acquisition modules. Please note that changing from classical Opcenter Quality licenses to Opcenter Quality Control can only be done holistically. Old licenses for the involved modules are no longer valid in case quality inspection exists.

# What's new in Opcenter Quality version 12.1

## Features

- Forwards complaints generated by IGC/SPC/OGC Web automatically to problem solving
- Downloads a BOM/BOP from Teamcenter Manufacturing to Opcenter Quality
- Makes extensibility available in Opcenter Quality Control (IGC/SPC/OGC Web)
- APQP CS: Considers linked checklists when action closed
- FMEA CS: FMEA import/export in MSRFMEA 2.2.1 format
- Calvin CS: Assigns person-related gages with qualification matrix

## Teamwork between Teamcenter and Opcenter Quality Control

Automatically forward complaints generated by incoming goods control (IGC)/statistical process control (SPC)/outgoing goods control (OGC) Web to problem solving.

If a deviation is detected during a web-based recording of an inspection order, a complaint can be generated automatically. The system can be configured to automatically forward complaints to Teamcenter® software and create a complaint.

The screenshot shows the 'Action/Cause' form in the Opcenter Quality Control system. A blue circle highlights the 'Create complaint' button. The form includes the following fields and sections:

- Status:** Upper CL (CC1)
- Minor defects:** (Empty)
- Main defect:** (Empty)
- Critical defect:** (Empty)
- Item/charact:** DW15CP2356
- Cavity:** 1
- NOI/descr:** DW15CP2356
- ID/descr:** DW15CP2356
- User:** 2999
- User:** Opcenter-QL Service
- Department:** OEP001
- Email:** oqcenter@siemens.com
- Phone:** +47696492222
- Defect catalog:** (Dropdown menu)
- Defect code:** (Text field)
- Defect desc:** (Text field)
- Lot:** (Text field)
- Outgoing batch:** (Text field)
- Sample comment:** (Text area)
- Causes:** (Section with 'Input new cause' field)
- Actions:** (Section with 'Input new actions' field)

Complaint creation based upon a deviation.

The screenshot shows the 'Changes' view in the Opcenter Quality Control system. The top navigation bar includes 'Changes', 'Open', 'Actionable', 'Closed', and 'Dashboard'. The main content area displays a list of issues with the following details:

- Issue 1:** I-0404, IR-000019, Revision: A
- Issue 2:** K-0070, IR-000018, Revision: A
- Issue 3:** K-0070, CAPA-00018, Revision: A
- Issue 4:** K-0070, CAPA-00017, Revision: A
- Issue 5:** K-0070, IR-000017, Revision: A
- Issue 6:** TEST\_SIMPLECOMPLAINT, CAPA-00016, Revision: A
- Issue 7:** TEST\_SIMPLECOMPLAINT, IR-000016, Revision: A

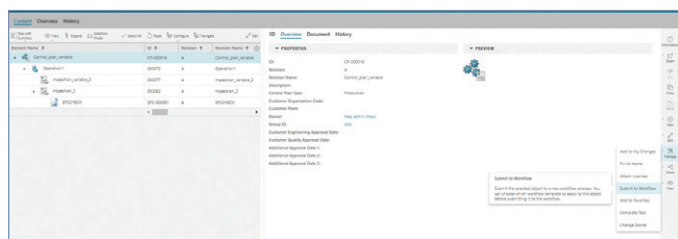
The detailed view on the right shows the following properties for the selected issue:

- Issue Number:** IR-000019
- Synopsis:** I-0404
- Description:** SPC related issue
- Type:** Non-Conformance Issue Revision
- Category:** Process
- Issue Subcategory:** Quality
- Priority:** Medium
- Potential Reasons:** (Empty)
- Locations:** (Empty)
- Source Contact Information:** (Empty)
- Lot Or Batch Number:** (Empty)
- Quantity Affected:** (Empty)
- Source:** (Empty)
- Contractor Or Supplier:** (Empty)
- Date Identified:** 19-Nov-2020
- Drawing Number:** (Empty)
- Found During Activity:** In Process Inspection
- Disposition:** (Empty)
- Plant:** (Empty)

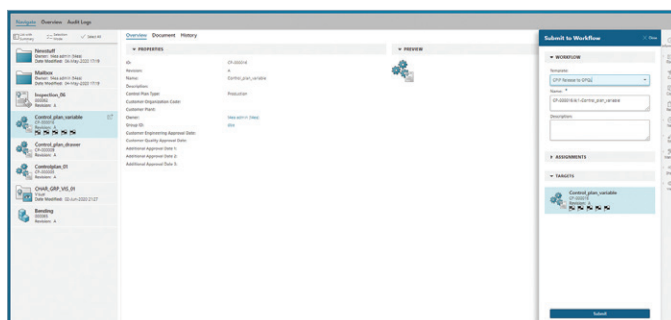
Issue created in Teamcenter caused by a deviation during acquisition.

### Transfer inspection plans with part reference

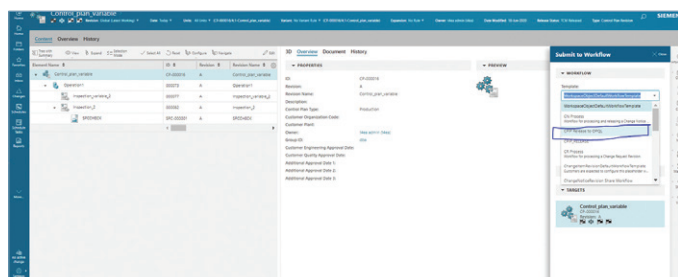
Downloading an inspection plan from Teamcenter to Opcenter Quality can be initiated with a Teamcenter workflow. One example is shown here:



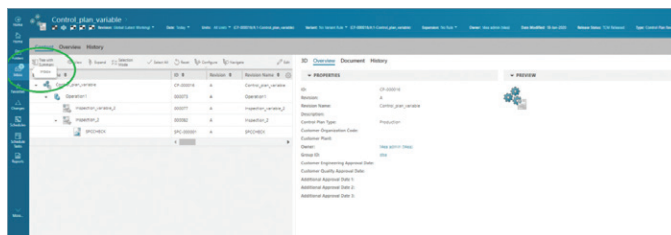
Workflow is initiated.



Submitting the workflow.



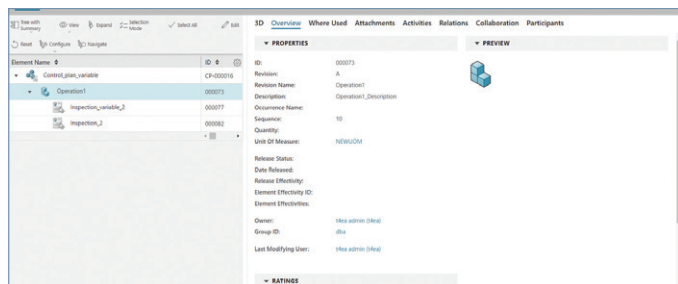
Workflow CPIP release to OPQL.



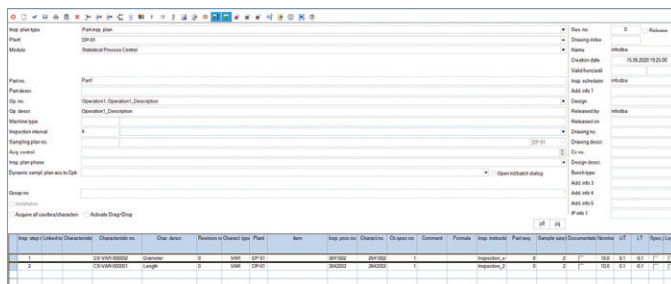
A task appears in the Teamcenter inbox.

### Example of an inspection plan download

Based on this workflow technology it is possible to transfer inspection plans from Teamcenter to Opcenter Quality.



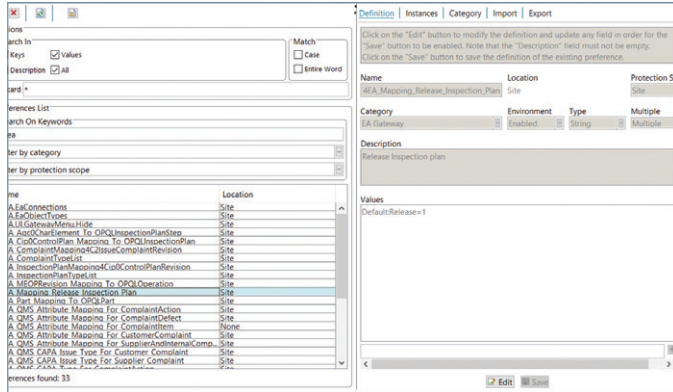
Inspection plan in Teamcenter.



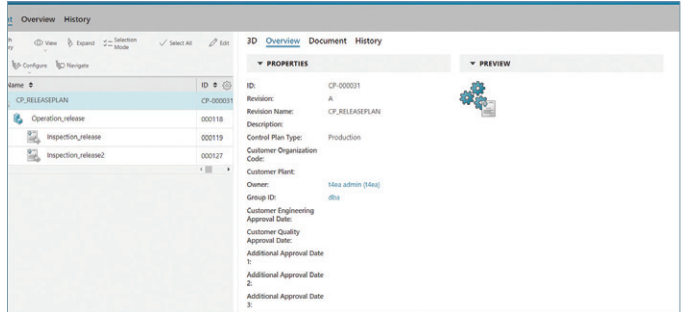
Downloaded inspection plan in Opcenter Quality.

## Releasing an inspection plan in Opcenter Quality

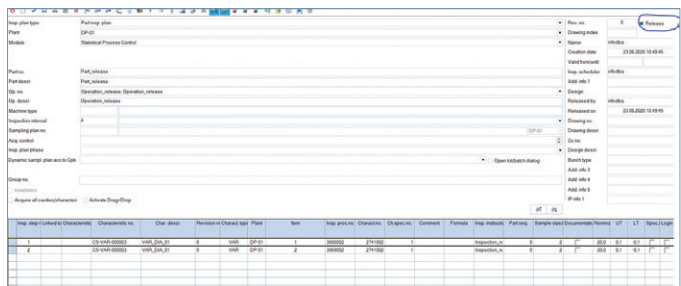
Configuration in Teamcenter provides the option to automatically release the inspection plan in Opcenter Quality.



Configuration to release an inspection plan.



Example inspection plan in Teamcenter.



Changed or newly created inspection plan will be released.

## Download a BOM/BOP from Teamcenter Manufacturing to Opcenter Quality

You can now download a bill-of-materials (BOM) and a bill-of-process (BOP) from Teamcenter Manufacturing to Opcenter Quality.

## Opcenter Quality Control

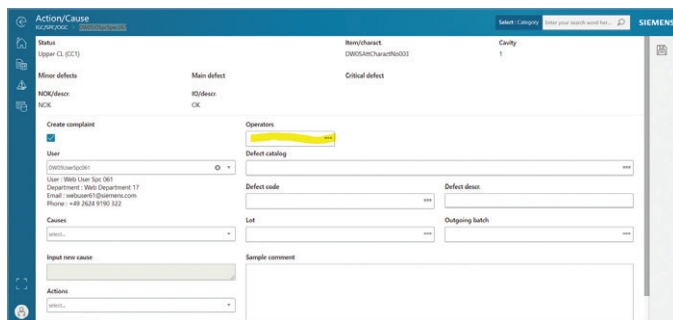
Extensibility is available in Opcenter Quality Control. We support extensibility in the Opcenter Quality Control module (formerly known as IGC/SPC/OGC Web).

The extensibility provides the following options:

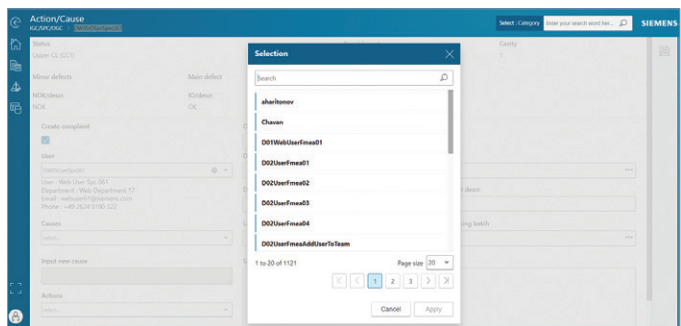
- Ability to add new customer-specific fields in the layout
- Configure properties like color, bold and italic
- Customer-specific selection lists include the selection of data from customer-specific tables

- Add customer-specific columns in a table
- Gage selection dialogues are configurable

As an example, we can add a selection list of operators in the Action/Cause dialogue in the SPC acquisition that pops up after a process violation is recorded.



Field operators with selection option added via extensibility.

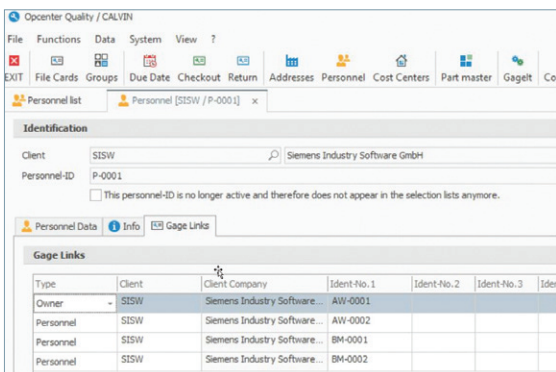


User list appears after clicking on the three dots in the additional field operators.

## BCT web component is supported in Opcenter Quality Control

Integrating the graphical capture into our web module supports the inspector, who can quickly and precisely identify the location and measurement to be inspected.

If the connection between the inspection step in the inspection plan and the measurement on the component is difficult to see, the inspector can zoom in to obtain precise information about the characteristic to be measured.



Gage links in Calvin.

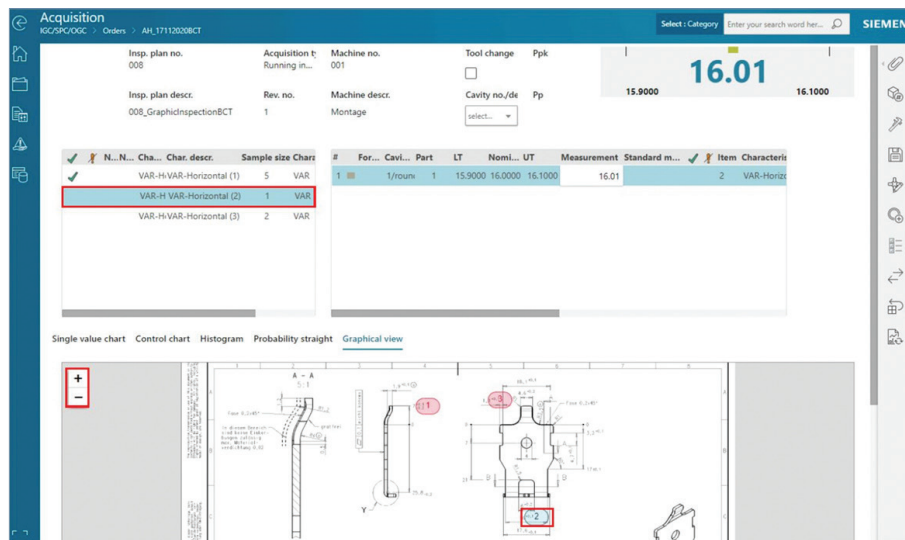
## Opcenter Quality: Features for the client server modules

### APQP CS: Consider linked checklists when action closed

It is now possible to tell Opcenter Quality that actions cannot be closed if there are open actions in a linked (predecessor) checklist. To achieve this additional value for the system profiler switch APQP.VERIFY\_PREDECESSORS\_ON\_ACTION\_CLOSE is provided.

### FMEA CS: FMEA import/export in MSRFMEA 2.2.1 format

The standard format MSRFMEA 2.2.1 is now supported. Previous versions 2.1.2 and 2.2.0 were supported. This means more details are exported and imported.



Representation of a graphic within the acquisition window.

In addition to the already supported data, the following data is also exchanged in the MSRFMEA 2.2.1 format:

- Team master data for each system element. Team unique check: *Team name, plant and ordered set of members. A new team is created if there is not a target system match*
- Local members for system element  
*Responsible person for system element*  
*System element flags (checkboxes Group, System structure, Closed, Confidential)*
- Creator, modified by person, for action group  
*Creator, modified by person, for action*  
*CaqUser flag exported for person.*  
*Flag is transferred in case user is new on target system (before new users were imported as non-CaqUsers)*
- On import there is a message warning that some plants contained in XML file are not available on target database. It allows the user to cancel import and create plants manually

### Calvin CS: Person-related assignment of gages with qualification matrix

A Gage Links tab is added to the personnel master data. At this point, the person-related assignment of gages with qualification matrix is done.

### IPM CS: Insert inspection step at specific position

Users of our inspection planning module can insert a test step directly between other test steps. You do not have to move it from the end of the test step list to the correct position.

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