DIGITAL INDUSTRIES SOFTWARE

What's new in Opcenter Quality 2209

Benefits

- Minimize analysis deviations by visualizing production results and comparing them to the specifications

- Enhance the complaint management process by merging all relevant data

- Extend support of VDA requirements for PPA

- Increase FMEA and control plan capabilities

- Expand usability for gage management

- Enhance support for the supplier PPA based on VDA requirements

Summary

Opcenter™ Quality software is a multilingual, cross-industry quality management system (QMS) that complies with international standards, including the International Organization for Standardization (ISO) 9001:2015, International Automotive Task Force (IATF) 16949:2016, Automotive Industry Action Group (AIAG), German Automobile Industry Association (VDA) and others.

Opcenter Quality is a process-oriented, modular system that provides the closed-loop quality product lifecycle, enabling the user to manage complexities for planning, controlling and monitoring processes and corporate quality. Opcenter Quality, which is a part of the Siemens Xcelerator portfolio, the comprehensive and integrated portfolio of software, hardware and services, helps you support all of the quality processes required in production.

Using Opcenter Quality Control enables you to pair the comprehensive digital twin with features in Teamcenter® Quality software in real-world production. Using Opcenter Quality Control supports all quality processes on the shop floor. This starts with documenting inspection results and includes controlling production processes and supporting the necessary processes that are carried out in case of deviations. This can even include adapting inspection specifications to production conditions.

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Features

- Support web graphical inspections for IGC, SPC and OGC

- Combine individual complaints into one complaint

- Enhance the VDA report product-related test results

- New properties on FMEA function objects

- Opcenter Quality Gage Management (CALVIN) – language configuration

- New optimized process in Opcenter Quality Portal based on smart client technology

To harmonize the offerings across Siemens Digital Industries Software, Opcenter Quality is being moved to year- and month-based version numbering. Version 2209 stands for the September (09) release in 2022. Therefore, version number 2209 follows version number 13.2.

Minimize analysis deviations

Opcenter Quality 2209 can be used to support a standard acquisition layout for tablets for incoming goods control (IGC) and production inspections, including statistical process control (SPC) and final inspections.

In the latest version, new dashboards are available for the SPC and incoming / outcoming goods control (IGC/OGC) web interface.

In the SPC dashboard, the chart shows the ratio of the inspection orders assigned to the login station if the acquisition is not overdue or the number of inspections has not yet exceeded the scheduled numbers.

In the IGC/OGC dashboard, the chart shows the ratio of the number of inspection orders assigned to the login station with different inspection order status for (by default) the last 90 days.

The user can also benefit from the enhanced support for a graphic inspection plan. The different views of a drawing can now be saved in the inspection plan, as shown in the top, front and bottom views. Selected inspection steps can be assigned to the individual views. The view belonging to a specific test step is then displayed in the acquisition.
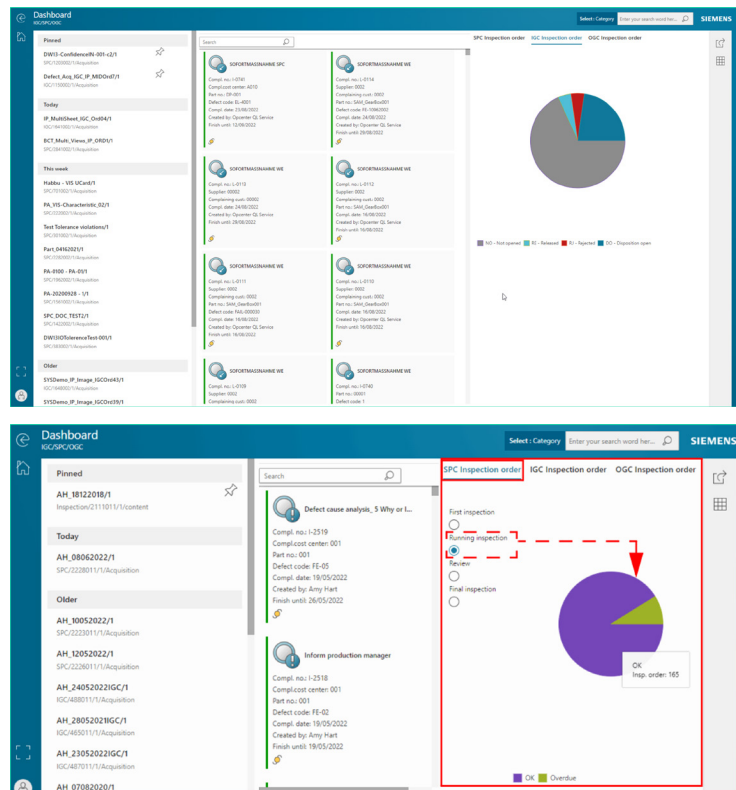

Figure 1. Example of new dashboards for web inspections of IGC, SPC and OGC.
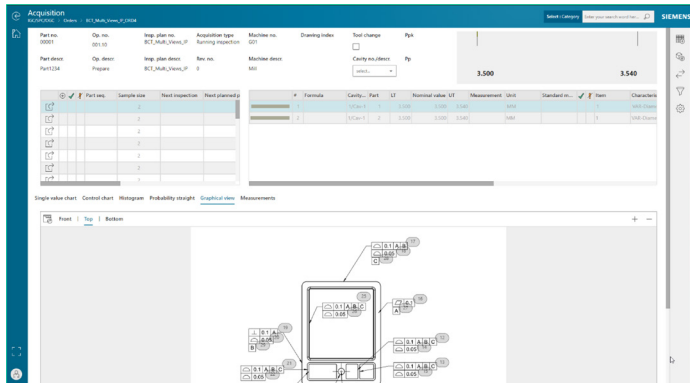
Figure 2. Different views of a drawing can now be saved in the inspection plan (web).

Another new useful capability is the possibility to log in directly from a specific station or allocation. All inspection steps assigned to the same station as the inspection order are displayed on the web SPC acquisition page and can then be acquired. The systems allow a user to identify inspection steps that are assigned to a different station, and they are marked in gray and cannot be acquired.

The user can also benefit from the possibility of defining an inspection time for IGC/OGC orders. The inspection time is the difference between the time stamp of the acquisition of the first inspection step and the last inspection step and can be acquired automatically or entered manually. This means the inspection time also includes time during which an inspection order is interrupted (for example, due to a shift change or an emergency).

Enhance your complaint management process
Furthermore, the new version of Opcenter Quality offers enhanced complaint management. Using the Opcenter Quality Concern and Complaint Management (CCM) module, individual complaints can be combined into one complaint.
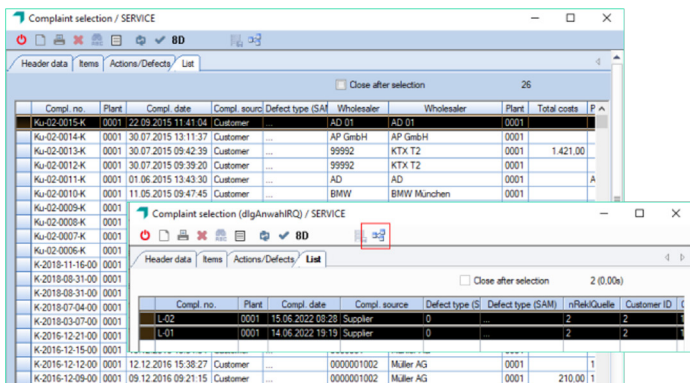

Figure 3. Complaint management for merging complaints.

In Figure 3, two complaints were merged and a new complaint was created. Relevant information can be selected from both complaints, such as the complaint source and supplier. The initial complaints are referenced as a source in the new one.

Extend support for VDA requirements for PPA
The current release of Opcenter Quality 2209 will further optimize the process to fulfill the German Association of the Automotive Industry (VDA) requirements for production process and product approval (PPA).

In order to support the required documentation of VDA, the template for creating the report "product related test results" has been extended with additional fields. Fields such as inspection instruction, characteristic number, characteristic description, nominal value and upper and lower tolerance have been added. An additional comment field is now completely visible (250 characters) in the report.

Note: To support the different requirements of the PPA process according to VDA 2020, the Opcenter Quality APQP module needs to be installed.

Increase FMEA and control plan capabilities
Using Opcenter Quality 2209 helps you support the alignment between your failure modes and effects analysis (FMEA) and control plans. In the latest version, a new property on FMEA function objects has been introduced. It is now possible to assign a characteristic standard type to the function and/or to the characteristic independent of the FMEA type. It is differentiated whether it is a product or process characteristic. If the characteristics are imported from the FMEA into the control plan, the information, whether it is a product or process characteristic, is now also imported into the control plan.
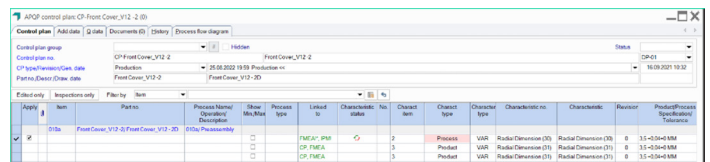

Figure 4. New FMEA function object properties related to inspection characteristics for the control plan.

The action priority filter has been integrated in the cause and action state filters as additional enhancements in the FMEA module. The booth filters in these fields support a multi-selection by following the three classes of action priority:

- High (H) – Highest priority for the action: An appropriate action must be identified to improve occurrence and/or detection. Or it must be justified and documented why the actions taken are appropriate
- Middle (M) – Middle priority for the action: Appropriate actions should be identified to improve occurrence and/or detection or, at the company's discretion, justified and documented as to why the actions are appropriate
- Low (L) – Low priority for the action: Actions can be identified to improve occurrence or detection

As result, in the FMEA form sheet it is possible to filter by action priority value.

Expanded usability for gage management
The improved features of Opcenter Quality 2209 include specific user capabilities for configuring language. Fallback language is to be used instead of another one to replace texts that are missing in another language in the database. Assigning the fallback language provides the possibility to replace missing texts in another language with priority by texts from a related language – if available in the database.

The improvements apply to the Opcenter Quality Gage Management (CALVIN) module, too. In Calvin, among other things, the translations are improved and expanded.

Enhanced support for the supplier PPA
Another enhancement in Opcenter Quality 2209 is related to the specific portal based on smart client technology. With the latest version, an internal user can also work with the portal. If a project checklist is opened by an internal user, grading is possible. Otherwise, a selection is not possible. The "Review by" field is visible and can be edited if a relevant action has been opened.
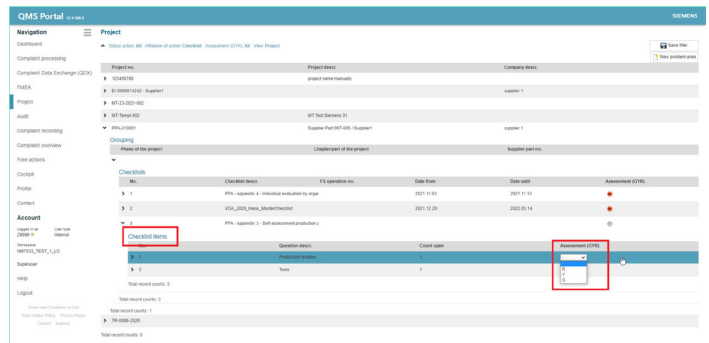

Figure 5. Opcenter Quality Portal based on smart client technology.