

What's new in QMS Professional?

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Realize innovation.

MOM Portfolio overview – Holistic SW suite for Manufacturing Operations Management: Siemens Opcenter







Agenda:

What's new in QMS Professional – high level presentation of new technology and functionalities AIAG-VDA Harmonization and Implementation in QMS Professional QMS Professional – Roadmap What about Teamcenter Quality and Compliance Suite?



What's new in QMS Professional – high level presentation of new technology and functionalities



APQR: Advanced Planning Quality Radar Closed Loop Quality in Excellence



- Importing a 2D drawing (DXF) or a 3D model (JT) into a neutral table (similar to a bill of quality).
- Possibility to create new Design FMEA, Process FMEA, Control plan and Inspection plans directly from quality radar.
- Very good overview of the linked characteristics
- Support of the well-known change management process in QMS Professional



Advanced Planning Quality RADAR Process and functionalities





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Advanced Planning Quality Radar Process and functionalities



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What's new in the quality process: In Process Control (SPC)





IPM: Graphical inspection planning with BCT introduction (10.04)



BCT Inspector can be used for graphical inspection planning in the IPM module - as an alternative to PLM Vis.

The new functionality is based on the creation of markups - starting from BCT (only in one direction: BCT -> QMS). Via BCT Inspector, so-called CN are created manually or automatically. These are then imported into the inspection plan as inspection steps.



CN is the BCT-side abbreviation for **C**haracteristic **N**umbers. A CN in the BCT Inspector corresponds to the same number in the Test Step No. column in the test plan. In the drawings, the test points are stamped with the CN (= markup, also called balloon in BCT). The files are stored in the database

- without reference to a local directory.

BCT Inspector supports the following formats: for graphical inspection planning / 2D:

- TIFF files (*.TIF)
- Acrobat Reader files (*.PDF)
- DXF files (*.DXF)

for graphical inspection planning / 3D:

- Jupiter tessellation (*.jt) Created CN are saved in a project file (*ipxml).

CALVIN – integrated in QMS Professional



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Defect acquisition and evaluation with photo, grid and defect pattern (10.01)



QMS Professional includes a quality inprocess control (SPC-statistical process control).

To support a rapid defect acquisition in the manufacturing area, a photo and grid functionality is now available.

As photos are much easier to work with than textual descriptions, the new capability significantly reduces the work load of each operator or quality inspector.

Quality inspections can now be performed with one-click to a defined area on a picture to record a defect location and type effectively.



Defect acquisition and evaluation with photo, grid and defect pattern (10.01)



This easy-to-use defect acquisition is also supported in the QMS Professional Evaluation (EVA) as a defect pattern.

The Defect pattern tab shows the Defect locations allocated to the individual defects of the visual characteristic during Defect type/ defect location acquisition in the SPC module.

Activating/ deactivating the *Show points* checkbox enables you to show or hide the points.

• Activating/ deactivating the *Show numbers* checkbox enables you to show or hide the quantity.



SPC HTML5 / Web





What's new in the quality process: Complaint management and collaborative Quality Improvement





CCM (Concern- and Complaint Management) HTML5 / Web – new technology combined with new functionality



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What's new in the quality process: APQP / CLQ Advanced Product Quality Planning / Closed Loop Quality





FMEA Form: Display classification symbols for characteristics (10.03)



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9 (567)

New menu option in the menu: Symbol for characteristics for displaying or hiding the classification symbols for the characteristics.

If the menu option characteristics is activated, you can also activate the menu option Icon for characteristics symbols.

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Lessons Learned: Extension to include LL-relevant documents Lessons Learned: Sending e-mails when initiating an LL process (10.03)

When appending documents to tasks in LL mode, you can specify whether a document LL is relevant, that is, whether it is to be copied to all target system elements or not.

A switch in the System Profiler can be used to configure whether an e-mail should be sent automatically when an LL process is triggered - with a QDX attachment that refers to the master system element - and if so, to which addressee





FMEA Approval procedures for (inactive) top system element revisions (10.03)



For not active top system element revisions, the approval procedure is available as an option, which can be activated in the FMEA settings in connection with the revision of top system elements.

(functionality in first development stage, extensions for the next versions are planned)



FMEA Lessons Learned (LL) LL functionality can be combined with revisions (10.04)



In the current FMEA versions is not possible to work with revisions **and** lessons learned process in parallel.

Now the lessons learned functionality and revisions can be combined with each other.

The system transfers the existing external links of the lessons learned elements to the new revision. This means that the LL actions and the master FMEA concept can be used with the new revision.



FMEA Structure: Open list of characteristics directly (10.03)



To view the inspection characteristics that are assigned to a function or to assign inspection characteristics to a function, you no longer need to call the Inspection Characteristics window from the Function / Request window.



FMEA C/S: visual characteristics now available (10.06)



In the Inspection characteristics window it is now possible to assign visual characteristics to a function.

- The functionality corresponds to that of variable and attributive characteristics.
- This means that the visual characteristics are also optionally displayed in the form and also transferred to the control plan.

Finally, visual characteristics can be used in the FMEA.

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N	lo.	Linked to	Charact. status	Item	Characteristic no.	Char. descr.	Revision no.	Charact. type	Classification	Classi- fication Symbol	Importance	Documentation duty	Specification
1		PFC!, CP!			001-BL	001-BL	16	UAR	Documentatio	∇	Critical	V	11,000 mm (0,110/-0,110)
2		PFC!, CP!			T-001	T-001	6	UAR	Critical	\diamond	Critical		11,000 mm (0,200/-0,100)
3		PFC!, CP!, FMEA!, IPM!		7	0014	Kopfauflage	5	UAR	GM critical	CC	Critical	V	11,000 mm (0,030/-0,030)
4		PFC, CP		31	0054	Chamfer pre	6	ATT	GM critical	CC	Critical	▼	OK / not OK
5		PFC!, CP!, FMEA!			50000025	ABH Auslös	0	URR	Main	ΰ	Main	~	14,900 MM (0,000/0,000)
6		PFC, CP, FMEA, IPM		31	0054	Chamfer pre	6	BTT .	GM critical	00	Critical	V	OK / not OK
7		PFC!, CP!			0824	Teile besch	0	ATT	DC DF eng	ΰ	Main	Γ	OK / not OK
8		PFC!, CP!, FMEA!, IPM!		23	Eindrehtiefe	Drill depth	0	UAR	Main	ΰ	Main	2	3,000 cm (0,500/-0,500)
9		CPI, FMEA!			0204	Schlitz gratf	0	ATT	GM Main 2	SC	Main	Г	OK / not OK
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1	5	PFCn, CPn, FMEAn, IPMn			FKT-001	Oberfläche	2	VIS			Main		Cracks; Bubbles; Unebenhe

FMEA HTML5 / Web – new technology AND providing graphical nets, in which you can edit...





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Siemens Digital Industries Software



AIAG-VDA Harmonization and Implementation in QMS Professional

Official approval of AIAG-VDA FMEA harmonization is done

AIAG Automotive Instanty Action Group





- New form sheet
- Action Priority instead of RPN
- New ranking tables for Design and Process
- New FMEA type Monitoring System Response (MSR)
- Boundary diagram & Parameter diagram

Current status:

Official release via approval by both the AIAG QSC and VDA QMA is done; publication is available since approx 2 weeks



7 Steps Approach



Include 7 steps instead of 5 steps

	System Analysi	s	Failure An	alysis & Risk M	itigation	Risk Communication
1 st Step	2 nd Step	3 rd Step	4 th Step	5 th Step	6 th Step	7 th Step
Planning & Preparation	Structure Analysis	Function Analysis	Failure Analysis	Risk Analysis	Optimization	Results Documentation

The 7-Step Approach

The most noticeable change in the AIAG & VDA FMEA Handbook is its new approach for FMEA development: the 7-step Approach. It provides a framework for documentation of technical risks in a precise, relevant, and complete manner. This new framework is precise because of its use of technical terms to describe failure modes and its potential causes. It is relevant because the failure effects describe technical consequences of failures. Lastly, it is complete because of its use of focus element-upper level-lower level approach enabling a comprehensive review of the risks.

	System Analysi	S	Failure An	Risk Communication		
1 st	2 nd	3 rd	4 th	5 th	6 th	7 th
Step	Step	Step	Step	Step	Step	Step
Planning &	Structure	Function	Failure	Risk	Optimization	Results
Preparation	Analysis	Analysis	Analysis	Analysis		Documentation

The Benefit:

The 7-step Approach is more structured, and highly instrumental in increasing a multidisciplinary team's effectiveness and efficiency:

- More risks can be addressed in a comprehensive manner
- Multidisciplinary reviews of the FMEA become engaging "technical guided reflections" instead of an "unfocused brainstorm", avoiding a discouragement attitude related to FMEA
- Enables senior management to comprehend and review necessary actions and resources to mitigate technical risks

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6

Steps: 1st Planning& Preparation and 2nd Structure Analysis



new

Ano Pian deve bour

Enhanced FMEA Planning & Preparation

Another major dimerence is the emanance direction of PMEA Planning and Preparation, the list step of FMEA development. While defining the scope has always been part of the FMEA development, the AIAG & VDA FMEA Handbook gives it increased prominence. For example, determining analysis boundaries (what is included and what is excluded), application of 575 (FMEA Infent, Timing, Team, Tasks, Tools), preparation of baseline FMEAs with lessons learned, and clear definition of roles and responsibilities (management, technical lead, facilitator, team members) are now more explicitly included in FMEA preparation.

The Benefit:

Enhanced planning and preparation will allow you to avoid wasting time of the multidisciplinary team due to lack of focus (Why are we here? What is the technical risk in discussion now? Who should do what?) and relevant information availability.

The benefits of organizing lessons learned into baseline FMEAs are:

- Mitigate the risk of past failures recurrences due to loss of knowledge related to turnover and retirement
- Save time in FMEA preparation as the baseline FMEA is a robust starting point for FMEA in similar products and processes
- Enable practicality in the concept of "FMEA as a living document"
- Clarity for management to estimate and allocate resources to standardize lessons learned

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 DFMEA 2nd Step – Structure Analysis. DFMEA form starts with the understanding of the system structure. After the breakdown of the design into system, sub-system, and component the Focus Element, the Next Higher Level, and Next Lower Level is described in the form. Additional clarification on tools to support the structure analysis before completing the DFMEA is provided (Block Diagram, Structure Tree).

- 1. Step: First Step Renamed to Planning and Preparation
- Project Plan via APQP
- Boundary Diagram (out of scope Elements)
- Baseline FMEA
- Lessons Learned
- Fill the header of the FMEA (teams, customer, company, subject, engineering location etc.)
- 2. Step: Structure Analysis
- Option A: use boundary diagram



- Option B: use tree structure or net view (former VDA user)
- Option C: directly view the form sheet that includes the higher/lower level columns as well as the focus element and enter data directly in form

Steps: 3rd Function Analysis and 4th Failure Analysis



new

3. Step: Function Analysis

Option A: use P-Diagram to make the function analysis

- On each system element that is been defined by the boundary diagram/tree/net view/form sheet a parameter diagram will be generated.
- Option B: use tree or net view to add functions
- Option C: use form sheet to add new functions
- Definition of Characteristics and Requirements according to the function
- 4. Step: Failure Analysis
- Failure tree and net view

 DFMEA 3rd Step – Function Analysis. Deeper explanation on how to describe properly a function, including tools to support the function analysis (P-Diagram).

 DFMEA 4th Step – Failure Analysis. Concepts of types of failures and failure chain model are described to support a more comprehensive (more failures described) and consistent (internal consistency between FE, FM, FC) failure description.

Steps: 5th Risk Analysis and 6th Optimization and 7th Result Documentation

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- DFMEA 5th Step Risk Analysis. Further differentiation between Prevention Controls (PC) and Detection Controls (DC). The confirmation of PC and DC effectiveness needs to be considered before selecting the Occurrence and Detection ratings. More specificity in the criteria to determine levels for Severity, Occurrence, and Detection ratings and the replacement of RPN to DFMEA Action Priority (AP). Low, Medium, and High AP levels drive the determination of action priority.
- DFMEA 6th Step Optimization. Recommended Action replaced with Prevention Action and Detection Action. Added the columns: Status (planned, decision / implementation pending, completed, discarded), and Action Taken with pointer to evidence.

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• DFMEA 7th Step – Results Documentation. Internal reporting to management and customer reporting.

- 5. / 6. Step: Risk Analysis and Optimization
- Action Priority / new assessment tables
- New AIAG&VDA form
- Action Status (Open, Decision pending (optional), Implementation pending (optional), Completed, Discarded)
- 7. Step: Result Documentation
- Customer View (different master data)
- Statistics Changes (Risk Matrix) to display Action
 Priority
- Changes of existing reports



new

That's our plan to implement the new requirements. 10.07 will be released shortly, 10.08 is planned, the confirmation is expected for 10.09



	No.	AIAG&VDA Request	Status	HTML5	C/S
Step1: Planning&Preparation	1	Project Plan in APQP	implemented	Х	Х
	2	Baseline FMEA	implemented	Х	Х
	3	Lessons Learned	implemented	Х	X
	4	Header Data of FMEA	planned	10.08/09	10.08/09
	5	Boundary Diagram (scope)	implemented	10.07	-
Step2: Structure Analysis					
	6	Tree Structure	implemented	X	X
	7	Boundary Diagram (scope)	implemented	10.07	-
	8	Process Flow Diagram in APQP	implemented	tbd	Х
Step3: Function Analysis					
	9	Function tree/net view	implemented	Х	Х
	10	Characteristics	implemented	Х	X
	11	Requirements	implemented	10.07	-
	12	Parameter Diagram	implemented	10.07	-
Step4: Failure Analysis					
	13	Failure Mode, effect, cause	implemented	Х	Х
	14	Failure tree/net view (f. chain)	implemented	Х	Х
Step5&6: Risk Analysis&Optimization					
	15	Action Priority Assessment Scheme	planned	10.08/09	10.08/09
	16	AIAG&VDA forms (4different ones)	planned	10.08/09	10.08/09
Step7: Result Documentation					
	23	FMEA Report	planned	10.09	10.09

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QMS Professional Roadmap



The published roadmap is **NOT A COMMITMENT FOR DELIVERY** but rather a forward looking view to communicate the product directions and plans

- The products organization reserves the **rights to adjust the roadmap** at any time and in any way
 - as refinements to the requirements and costs are better understood
 - to accommodate changing priorities, technologies and commitments
- When a customer requires a commitment for a future deliverable, there is a formal commitment request process
 - This process requires that a specification is agreed upon between the requesting party and the products organization along with an approval process that considers the assesses the risk of making the commitment to the overall plans and roadmap

QMS Professional mid-term roadmap (Replicate status) The goal is to complete an HTML 5 version for all user applications by end of 2021.





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QMS Professional: Inspection module for SPC/IGC/OGC HTML5



SPC 10.06

- SPC Stabilization
- Performance Improvements
- SWAC container with all needed parameters for an SPC SWAC call
- Customer Support
- SIT UA interface enhancements

SPC 10.07

- Support 2.58 sigma
- Support sigma calculation in inspection plan
- Probability-Net
- Support Johnson distribution

SPC 10.08

- Incoming Goods Control / Outgoing Goods Control First step
- Integrate BCT Web component to use graphical acquisition
- Control chart Weibull

SPC 10.09

Incoming Goods Control / Outgoing Goods Control - Second step



- Activated touchpad to enter the measurement values via a touchscreen
- You can use the box plot in the control chart for variable characteristics
- Special layout for the integration with UADM without header data, because this data is already shown in UADM

QMS Professional: Concern and Complaint Management HTML5



CCM OMS Professional 10 [] QMS-SERVICE CCM 10.06 CCM 10.08 Select : Category e Home CCM) I-0019 O Search. Collective complaint Ishikawa Content Overview Attachment 0 **Concern and Complaint Management Cause dialog** 0 including serial number **Problem Solving Process** 图 Create SWhy \otimes Potential cause Root cause 7 A Inciden handling (Master 8D) **B** SOFORTMASSNAHME SPC 圖 New concept for linked 7 DIP-TT-FE-+0001 Cause **Portable Layouts** Materials V SO IP-D-0001 - Heavy Scratch (critical) complaints **Escalation Emails** ishikawa Central Cause Processing in plan E Machine→Increase Maintenance counter 0001 - 0001 Link Defect - Cause -**Integrate SPC Defect Picture** The Materials Remark Increase Water fluid level Image: Method Action **Functionality** 50 IP-D-0002 - Drip (main) SO IP-D-0003 - Inclusion (minor) leavy Scratch (critica Manufacturing Reporting wrong density (Integration of List and wrong Label) CCM 10.07 Remark Supplier Tasks for a Team New: UX/UI Alignment Functions needed by 1st tier VDA Catogory CCM 10.09 suppliers to support the VDA Catalogue FMEA and CCM linkage complaint process including VDA Cause SAP-Interface for cost 8D process modeling handling VDA-request: Triggering Level Cost accounting 1 and Level 2 Checks New Brainstorming Component to support the QM Ishikawa in 10.06: Multitenancy support Extensibility Allow you to combine several methods, for example, the result of an analysis in • Data Glasses Ishikawa becomes the starting point for a 5Why method

Siemens Digital Industries Software

Siemens Warranty will be an new add-on tool to QMS Professional





*Internal consulting project with the Institute für Qualitäts- und Zuverlässigkeitsmanagement GmbH, IQZ startet to deliver:

(1) Gap Analysis: Assessment of the current MOM QMS Warranty Software features done

(2) Change Requests: Creation of software change requests for the existing Siemens software by showing up alternative technologies and rewriting existing software processes according the actual industry requested warranty processes; done

(3) Software Specifications: documentation of missing software features on a detailed level the product owner and R&D team can work with to finally build a marketable warranty software.

(next steps) Identify the most beneficial technology for the import engine and the data analytics tool

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done

QMS Professional: FMEA HTML5

S QMS Professional - Siemens PL1 × +

Input

Power Phase

Example for a Parameter diagram

@ QMS Professional FMEA



FMEA

FMEA 10.06

- Configuration of the header of the form sheet
- Definition of visual characteristics in the FMEA **Ongoing: Increase functional** depth
- Classification enhancements
- Boundary enhancements
- Status of FMEA harmonization

FMEA 10.07

- New Parameter Diagram
- History tab implementation п
- Enhanced CCM Interface to **FMEA**
- Change Management from Boundary Diagram to FMEA



FMEA 10.08

VDA&AIAG Harmonization (part 1)

- One new form sheet for VDA and AIAG
- New Rating: Action Priority instead of RPN and new ranking tables

FMEA 10.09

- 3 M Matrix
- VDA&AIAG Harmonization (part 2)
- New Action categories (e.g. carry over, benchmark, calculation)
- New FMEA type: MSR Monitoring System Response (MSR) incl. form

QMS Professional: Control plan / Inspection plan HTML5

Control Plan MCT-49 - APO

Control plan

MCT-49 APQP-CP-06



Control plan / Inspection plan

CP 10.06

- Performance
 Improvement for Control
 Plan Detail view
- CP/IP Read data of existing inspection plans using CP
- Creating/Updating Inspection Plans and Inspection Steps

CP 10.07

- CP-IPM-connection established
- Optimization of the release process flow
- Better integration with CP and IP (from 10.08)
 New: UX/UI Alignment

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CP 10.08

- Improvement of history display (from 10.07)
- CP- ex- and import functionality
- Possibility to easily display alternative operations in the flow
- Mass release of inspection plans

CP 10.09

- Define CMP Matrix
- Lessons Learned (push functionality) from line CPs to part CPs
- Documents as part of the CMP

QMS Professional: APQP Project Management HTML5

QMS Professional 10 Home > Project >

Content Over

Project

P-000250 -

Linked Proje Q-Links

V O Actions O PA-0



APQP Project Management

APQP 10.06

- **Basic Support of** PPAP Type and Print Matrix
- **Requirements for** APQP PM with PPAP checklists for first sample inspection
- Common Cost Comp.

APQP 10.07

- New: UX/UI Alignment
- Alignment project tree view and Gantt chart

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APQP 10.08

- Inform about modifications in allocated QMS data
- Dynamic lists for additional information (Add. info + QSYS)
- Printing the Gantt chart

APQP 10.09

- Support Change Management Process
- Handling of Requirements within a project (Polarion, Doors, ...)

QMS Professional: Calvin

THE professional / CALVER

UNIC Passerie Data 2100102530

SINIC Example Data CALIPER 001 Call.

SINIC Example Data D-9001-0 xDr

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SDUC Example Data MS-2

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Calvin

CALVIN within QMS Professional 10.06

- Complete integration of user administration into QMS
- Header masks as MDI tab
- Modernization of many head masks (e.g. inspection mask, output/return, additional masks for inspection)
- Subsequent Clients and Library Assignment to Users
- Improvements in automatic wildcard searches
- Improvements in order management
- High-DPI support (System DPI)

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- Modern look & feel for CALVIN
- High-DPI support (System DPI) and new skin for optimized display on High-DPI monitors

CALVIN within QMS Professional 10.07 ...

0.00 #107/2018 0.00

3/4/2016 0.03

0.00

0.06

- VDI 2623 import with configurable protocol path (VDI 2623 defines the Calibration Data Exchange-Format (CDE-Format))
- VDI 2623 Export/Import with ZIP support
- SIEMENS License Server Integration
- New test step type Graphic
- Import of measuring clouds from contour measuring devices for e.g. thread measurements

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What about Teamcenter Quality and Compliance Suite?

Target Customers to implement Industry 4.0 projects including Closed Loop Manufacturing



The Digital Enterprise Suite provides an integrated portfolio of Industrial Software and Automation for the discrete industry.

This allows product manufacturers, machine and line builders to integrate and digitalize their entire value chain – including their suppliers.



Siemens Teamcenter Quality Vision





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Compliance Suite: cloud based Document Control and Training & Qualification





Compliance suite – mid-term roadmap for cloud based Quality document solution



2021 **Closed loop Compliance &** Quality: <u>2020</u> R&D Suite **Document Control Teamcenter Quality** Training Qualification **QMS** Professional BI (Reporting and Other industries 2019 Intelligence) **Developing platform** Food and Bev configuration

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Thank you!

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