

SAP QM – News and Outlook

Product Management SAP QM
October, 2016



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Agenda

QM within SAP ERP

- Customer Connection Program
- Outlook

QM within SAP S/4HANA

- Current Development Topics
- Outlook

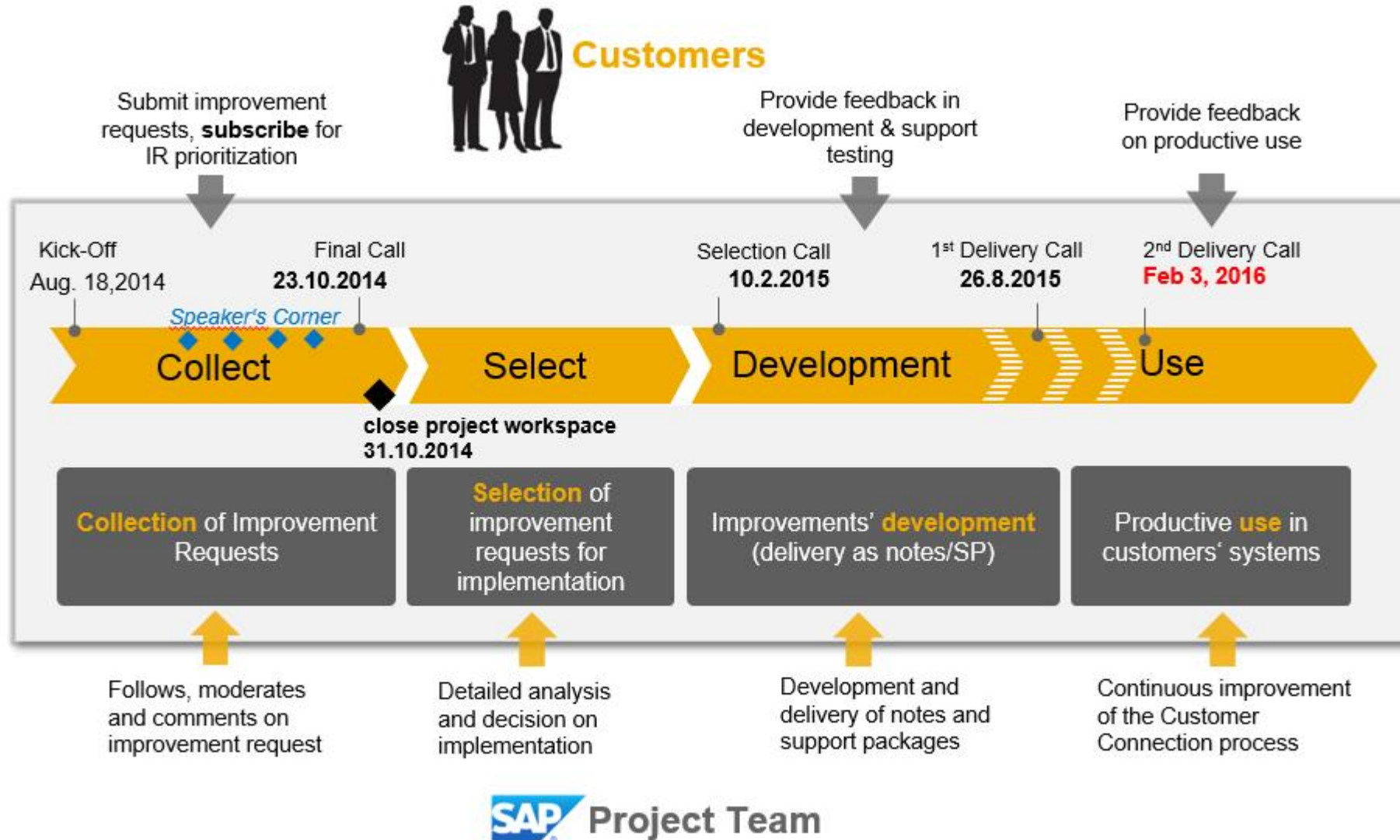


QM within SAP ERP

Customer Connection Program



Customer Connection Program



Available Topics

Available since August 2015 or February 2016

| Area | ID | IR Title | Availability |
|-----------------------------|-------|--|-------------------------------------|
| Advanced Returns Management | D7211 | Integration with QM – creation and control of an advance returns process | EhP7 SP09 – Note 2161621 |
| Inspection Lot | D6744 | QM Automatic usage decision job event triggered (RQEVAI30) | EhP7 SP09, EhP6 SP16 – Note 2161987 |
| | D6950 | Automatic updates to 04 inspection lot on change of process order | EhP7 SP10, EhP6 SP16 – Note 2188437 |
| | D6862 | Auto-UD (or Auto-Cancel) for empty inspection lots | EhP7 SP10, EhP6 SP16 – Note 2191172 |
| | D7209 | Increased flexibility in selections for Deadline monitoring | EhP7 SP11 – Note 2238046 |
| Results Recording | D6671 | Transaction for display of inspection results (QE53N) | EhP7 SP09, EhP6 SP16 – Note 2167621 |
| | D6729 | QE01 Result recording – warning limits | EhP7 SP09, EhP6 SP16 – Note 2156015 |
| | D6677 | Enable Median calculation functionality for results recording tables | EhP7 SP11 – Note 2237411 |
| Certificates | D6323 | Enable digital signature for certificates | EhP7 SP11 – Note 2238697 |
| FMEA/Audit | D7374 | Make unnecessary fields invisible – FMEA | EhP7 SP11 – Note 2225955 |
| | D7231 | FMEA: automatic assignment of a number | EhP7 SP11 – Note 2196765 |
| | D7341 | FMEA: Changing the status of actions | EhP7 SP11 - Note 2133854 |
| FMEA | D7253 | FMEA: Make cancellation visible on canceled actions | EhP7 SP11 - Note 2133854 |
| | D7254 | FMEA: Additional Button for quick status change of measures | EhP7 SP11 – Note 2133854 |
| Catalogs | D2737 | Inactivation of notification codes | Note 2081865 (from EAM/PM) |
| Q-Notification | D2738 | Counting entries in ALV grids | Note 2111087 (from EAM/PM) |

Available Topics

Available since July 2016

| Area | ID | IR Title | Availability |
|-----------------------------|-----------|---|-------------------------------------|
| Advanced Returns Management | D7210 | Integration with QM – inspection lot for customer returns process | EhP8 SP03, EhP7 SP12 – Note 2259775 |
| FMEA | D7340 | FMEA: Delete actions | EhP8 SP03, EhP7 SP12 – Note 2286946 |
| FMEA / Audit | D6733 | Roles for Audit Management | EhP8 SP03, EhP7 SP12 – Note 2281966 |

Advanced Returns Management – Integration of Inspection Lot

Characteristics

D7210

- The entire QM inspection processing scope is available for material inspection in warehouse (transaction MSR_INSPWH).
- Two options for the assignment of inspection lots are provided:
 - Planned creation of an inspection lot.
A lot is created automatically during returns delivery and can be processed within the transaction for material inspection.
 - Ad hoc creation of an inspection lot.
If an inspection lot was not created automatically, a lot can be created manually and processed within the transaction for material inspection.



Advanced Returns Management – Integration of Inspection Lot

Planned Inspection Lot Integrated into Returns Delivery and Returns Overview

D7210

The screenshot displays the SAP Advanced Returns Management interface. The main window is titled "Adv>Returns Delivery 84000328 Display: Item Details". It shows the following information:

- Returns Order:** 0060000667
- Item:** 10
- Item category:** REN2
- Material:** ARM-TEST1
- Item status:** Picking (Not relevant for pick), WM activities (No WM transfer required), Confirmation (Not subject to confirm), Pack (Packing not required), Goods issue (Completed), POD (Not Relevant), Billing Doc. (Not relevant for bill).
- Quality inspection:** Inspection Lot (120000002501), Partial lot (1).

The right-hand pane shows the "Returns Steps" table:

| Returns Steps | Processing Status | Plant | Insp. Lot | Document Number | Receiving Plant |
|-----------------------------------|-------------------|-------|--------------|-----------------|-----------------|
| Customer return received directly | ▲ | 0001 | | | |
| • Returns Order | ■ | 0001 | | 60000667 | |
| • Credit Memo Request | ◆ | 0001 | | | |
| • Returns Delivery | ■ | 0001 | 120000002501 | 84000328 | |
| • Goods Receipt | ■ | 0001 | | 4900011431 | |
| • Inspection | ■ | 0001 | | 000000000501 | |
| • Logistical Follow-Up | ■ | 0001 | | 000000000501 | |
| > Transfer to scrap | ■ | 0001 | | | |

If the inspection lot is created in parallel to the returns delivery, it is displayed in the returns delivery item details and in the returns overview transaction for the process step "Returns Delivery".

Advanced Returns Management – Integration of Inspection Lot

Process Planned Inspection Lot

D7210

Display: Material Inspection in Warehouse for Delivery 84000328

Hide Worklist Returns Overview Save and Confirm

Delivery 84000328 Status

| Deliv Item | Insp. Item | Handling Unit | Toggle Split | Material | Description | Batch | Serial Numbers | Cust.... |
|------------|------------|---------------|--------------|-----------|---------------------|-------|----------------|----------|
| 10 | 0001 | | | ARM-TEST1 | ARM Test Material 1 | | | |

Inspection Result

Inspection Lot: 120000002501 PartialLot: 1

Inspection Code: 0002 Not OK

Comment:

Inspection Date: 07.06.2016

Inspector: Markus Muether

Inspected Quantity: 10 EA

Inspected Qty. BUoM: 10 EA

Conversion: 1 PX <-> 2 EA

Inspected Qty SUoM: 5 PX

Logistical Follow-Up

Follow-Up Activity: 0012 Transfer to Scrap

Vendor:

Vendor RMA Number: RMA Required

Next Plant: Tr. Plant

Target Storage Loc.: Target Stock Type:

Responsible: Markus Muether

Follow-Up Block:

Reason for Ordering:

Replacement Material from Vendor Requested

Target Plant:

Target Material:

Released On: 07.06.2016

New buttons to navigate to “Display Inspection Lot”, “Record Results”, and “Usage Decision”.

Advanced Returns Management – Integration of Inspection Lot

Quantity Split with Partial Lots

D7210

Similar to the function in the transaction for material inspection, the quantity can be split by creating partial lots. For each partial lot a usage decision can be made.

Display Usage Decision: Characteristic Overview

Partial lots ... Inspection Lot Results history... Defective quantity... Administrative data... Change history...

Inspection Lot: 120000002802
Material: ARM-TEST1 ARM Test Material 1
System Status: UD ICCO STUP UserStatus:
Insp. End Date: 24.06.2016 Inspection completion forced

Defects Characteristics Documents

Type: Delivery 84000334

| Deliv Item | Insp. Item | Handling Unit | Toggle Split | Material | Description |
|------------|------------|---------------|--------------|-----------|---------------------|
| 10 | | | | ARM-TEST1 | ARM Test Material 1 |
| 10 | 0001 | | | ARM-TEST1 | ARM Test Material 1 |
| 10 | 0002 | | | ARM-TEST1 | ARM Test Material 1 |

Delivery Item 10 / Inspection Item 1

Basic Data

| | | | | |
|----------------------|-------------|---------------------|--|--|
| Material | ARM-TEST1 | ARM Test Material 1 | Batch | |
| Return Reason | 004 | Product defective | Handling Unit | |
| Cust. InspectionCode | | | Customer Comment | |
| Refund Type | Credit Memo | | <input type="checkbox"/> Preliminary Refund Determined | |

Usage Decision for Partial Lot

| Selected | PartialLot | Batch | System Status | Code | Short text for code | FollUpA... | Partial lot qty | BUn |
|----------|------------|-------|---------------|------|---------------------|------------|-----------------|-----|
| | 1 | | STIC UD | 0001 | OK | ---- | 4 | EA |
| | 2 | | STIC UD | 0003 | Partly OK | ---- | 2 | EA |

Partial lot ...

Advanced Returns Management – Integration of Inspection Lot

Ad Hoc Creation of an Inspection Lot

D7210

The screenshot displays the SAP Advanced Returns Management (ARM) interface. The 'Basic Data' section includes fields for Material (ARM-TEST1), Return Reason (001 Customer ordered too much), and Refund Type (Credit Memo). The 'Inspection Result' section is the primary focus, with the 'Inspection Lot' field set to 0. A yellow box highlights the 'Create Inspection Lot' button (represented by a document icon) in the toolbar above the 'Inspection Code' field. Other fields in this section include 'Inspected Quantity' (8 EA), 'Inspected Qty. BUoM' (8 EA), and 'Conversion' (1 PX <-> 2 EA). An 'Information' dialog box is overlaid on the screen, containing the text: 'Inspection Lot 120000002950 created; please save inspection'. The dialog box also features a green checkmark icon and a yellow question mark icon.

If the planned inspection lot creation is not configured, an inspection lot can be created by pressing the button “Create Inspection Lot”.

Advanced Returns Management – Integration of Inspection Lot Configuration within ARM

D7210

Display IMG

Existing BC Sets | BC Sets for Activity | Activated BC Sets for Activity

Change View "Settings for Advanced Returns Management on Client Level"

Structure

- Sales and Distribution
 - Master Data
 - Basic Functions
 - Sales
 - Sales Documents
 - Maintain Copy Control for Sales Documents
 - Maintain Display of Date Category and Periods
 - Advanced Returns Management
 - Activate Advanced Returns Management for Returns Order Types
 - Activate Advanced Returns Management for CMR Order Types
 - Activate Advanced Returns Management for SDF Order Types
 - Define Screen Layout for Returns Order
 - Specify Requirement Types for Non-Valuated Returns Stock
 - Activate and Rename Follow-Up Activities
 - Activate and Rename Refund Control
 - Define Number Ranges for Advanced Returns Process IDs
 - Define Return Reasons for Customer Returns
 - Define Returns Refund Codes
 - Configure Default Values for Returns Refund Codes
 - Configure Default Values for Returns Refund Codes (Insp. by Customer)
 - Configure Default Values for Returns Orders
 - Specify Plants Requiring Approval Check
 - Specify Settings at Client Level
 - Assign Payment Types to Returns Order Types
 - Follow-Up Documents
 - Settings for Repair as Follow-Up Activity

Settings for Advanced Returns Management on Client Level

| | |
|--|--|
| AcctAssCat DRTV | <input type="checkbox"/> |
| AcctAssCat RTV | <input type="checkbox"/> |
| <input type="checkbox"/> No Redetermin. | |
| <input type="checkbox"/> RefDet: One Tab | |
| Repair ValStock | Do not allow repair for valuated returns stock |
| Approval Default EDI | Blocked for Release |
| Insp. Lot Active | Inspection Lot for Material Inspection active |
| Insp. Type Planned | 1201 |
| Insp. Type Ad Hoc | 1202 |

In Customizing for Advanced Returns Management at client level, inspection lot integration has to be activated and inspection types have to be assigned for both options (planned and ad hoc creation of an inspection lot).

Advanced Returns Management – Integration of Inspection Lot Configuration within QM

D7210

The screenshot displays the SAP S/4HANA configuration interface. On the left, the 'Structure' tree shows the path: Quality Management > Quality Inspection > Inspection Lot Creation > Inspection at Shipping. The 'Change View' window is titled 'Assignment deliv.type (SD) - insp.lot origin (QM)': Overv'. It contains a table with the following data:

| DivTy | Origin | Description |
|-------|--------|----------------------|
| LR2 | 12 | Adv>Returns Delivery |

Below the table, a list of delivery types is shown, with the following items highlighted in a yellow box:

- 10 Delivery to Customer with Customer Order
- 11 Delivery to Customer Without Sales Order
- 12 General Delivery

At the bottom of the 'Structure' tree, the 'Choose Activity' window is open, showing a list of activities. The activity 'Assign Inspection Lot Origin to Delivery Type' is highlighted in a yellow box.

Inspection origin 10, 11, or 12 has to be assigned to those delivery types that are relevant for Advanced Returns Management. Inspection origin 12 is preferred.

Advanced Returns Management – Integration of Inspection lot

Technical Information

D7210

- Note: 2259775
- No switch in QM Customizing at client level
- Switch in ARM Customizing at client level has to be activated
- Business function for Advanced Returns Management 2 (OPS_ADVRETURNS_2) has to be activated



Delete Actions (FMEA)

Characteristics

D7340

- If the new function is active, the business transaction “Delete” is replaced by “Remove” for actions in FMEA.
- Actions that were removed are no longer visible in FMEA.
- The removal of an action that canceled another action will affect both.



Delete Actions (FMEA)

Example - Before Remove

D7340

The screenshot displays the SAP FMEA software interface. The main window is titled "Process Action" and shows the configuration for "Detection Action 3" (ID: DETECT_ACT_3). The interface is divided into several panes:

- Left Pane (Tree View):** Shows a hierarchical structure of the FMEA. "Detection Action 3" is highlighted with a yellow box under "Example Cause".
- Central Pane (Description):** Shows the description of "Detection Action 3". It includes a "System Status" section with a "Set" dropdown menu and an "Undo" button. A yellow box highlights the "Set" dropdown, and another yellow box highlights the "Remove" option in the dropdown menu.
- Right Pane (Administration):** Shows the "Status" tab, which includes a "User Status" section with a "Set" dropdown menu and an "Undo" button.

In this example, the action with the description "Detection Action 3" will be removed by selecting "Set > Remove".

Delete Actions (FMEA)

Example - After Remove

D7340

The screenshot displays the SAP 'Edit FMEA' interface. The left sidebar shows a tree view of the FMEA structure, including 'Example FMEA', 'Example Function List', 'Example Prerequisite', 'Example Defect', 'Example Cause', 'Detection Action 1', 'Preventive Action 1', 'Preventive Action 2', and 'Example Effect'. The main area shows the 'FMEA' details for 'FMEA_EX', with a description of 'Example FMEA' and a language dropdown set to 'English'. Below this is a toolbar with various icons and a table of actions. The table has columns for 'Exce...', 'Description', 'Action Type', 'Gro...', 'Search Fld', 'Lvl Compl.', 'CompleteBy', and 'PersonResp'. The table contains three rows of actions, with the first row, 'Detection Action 1', highlighted by a red box. The 'Worklist' pane at the bottom left shows a list of objects, including 'Example FMEA' and 'Detection Action 1'.

| Exce... | Description | Action Type | Gro... | Search Fld | Lvl Compl. | CompleteBy | PersonResp |
|---------|---------------------|-------------------|--------|------------|------------|------------|------------|
| ○○○ | Detection Action 1 | Detection Action | | | 0,0 | | |
| ○○○ | Preventive Action 1 | Preventive Action | | | 0,0 | | |
| ○○○ | Preventive Action 2 | Preventive Action | | | 0,0 | | |

The action with the description “Detection Action 3” was removed and is no longer visible.

Delete Actions (FMEA)

Technical Information

D7340

- Note: 2286946
- Switch in QM Customizing at client level has to be activated

Quality Management

- Basic Settings
 - First Steps
 - Setting Up Clients
 - Maintain Settings at Client Level**
 - Establish Organizational Units (Plants, ...)
 - Maintain Settings at Plant Level
 - Authorizations
- QM in Logistics

| Business Process | Switch | Active |
|------------------------------|--|-------------------------------------|
| Inspection Master Data ... | QA08 Enhancements | <input checked="" type="checkbox"/> |
| Quality Inspection | Automatic Usage Decision | <input checked="" type="checkbox"/> |
| FMEA Processing | Enhancements to Action Status | <input checked="" type="checkbox"/> |
| Audit Planning | Enhancements to Action Status | <input type="checkbox"/> |
| Quality Inspection | Results Recording: Visual Display | <input checked="" type="checkbox"/> |
| Quality Inspection | QE51N Display Lots with Usage Decision | <input checked="" type="checkbox"/> |
| Quality Inspection | Display Addit. Spec. Limits in Results R | <input checked="" type="checkbox"/> |
| Quality Inspection | Median Calculation in Results Recording | <input checked="" type="checkbox"/> |
| Inbound Quality Certifica... | Digital Signature for Certificates | <input checked="" type="checkbox"/> |
| FMEA Processing | Remove Actions | <input checked="" type="checkbox"/> |



Roles for Audit Management (FMEA/Audit)

Characteristics

D6733

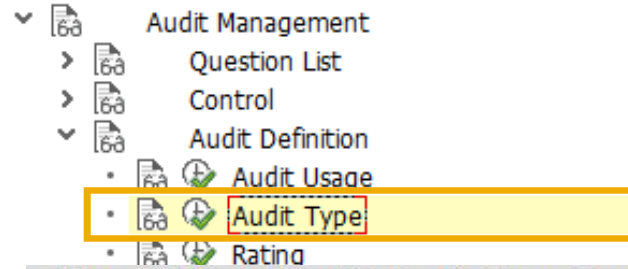
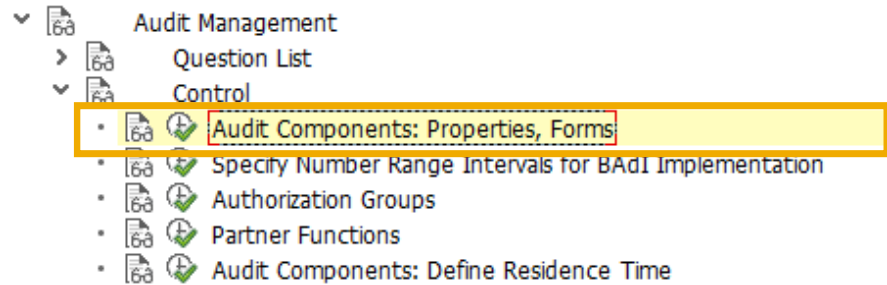
- A default BAdI implementation is available for the restriction of partner roles for the following components:
 - Audit type
 - FMEA type
- For other components such as audit plan, corrective and preventive action, and question list the new BAdI BADI_PLM_AUD_ROLES_RSTR can be used.



Roles for Audit Management (FMEA/Audit)

Audit Management - Customizing

D6733



The relevant roles can be assigned to each audit type.

Change View "Specific Settings for Data Objects": Overview

New Entries

| Object Type | Restrict Roles | ChangeDo... | App. Requ... | Output |
|----------------------|-------------------------------------|-------------|-------------------------------------|-------------|
| Audit | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | Adobe |
| Audit Plan | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | Smart Forms |
| Corrective and Pr... | <input type="checkbox"/> | Yes | <input type="checkbox"/> | Smart Forms |
| FMEA | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | Adobe |
| Question List | <input type="checkbox"/> | No | <input type="checkbox"/> | Smart Forms |

Change View "Audit Type": Overview

New Entries

| Audit Type | Audit Usage |
|---|---------------|
| 50 System Audit at Vendor's Site (Remote) | Quality Audit |
| 51 System Audit at Vendor's Site | Quality Audit |

Change View "Settings for Role": Overview

New Entries

Audit Type: 50 System Audit at Vendor's Site (Remote)

| Role | Description | Def. Role | Actn Role |
|------|--------------------|-------------------------------------|-------------------------------------|
| 50 | Approver | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 51 | Person Responsible | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 53 | Auditor | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

General activation of partner role restriction for the relevant object types.

Roles for Audit Management (FMEA/Audit)

Audit Management - Impact

D6733

The screenshot shows the SAP Audit Management interface for audit PKA_AUDIT01. The 'Participant' tab is active. A table lists three roles: 1 Approver, 2 Person Respo..., and 3 Auditor. A dropdown menu is open for the 'Approver' role, showing a list of roles including 'Approver', 'Person Responsible', 'Lead Auditor', 'Auditor', 'Responsible- Actions', 'Responsible- Area', 'Participant', and 'Prospective Customer'. The 'Approver' role is highlighted in the dropdown.

| S... | Role | BusinessPa... | Description |
|------|-----------------|---------------|-------------|
| 1 | Approver | | |
| 2 | Person Respo... | | |
| 3 | Auditor | | |

Before activation of partner role restriction.

The screenshot shows the same SAP Audit Management interface for audit PKA_AUDIT01. The 'Participant' tab is active. The table lists three roles: 1 Approver, 2 Person Respo..., and 3 Auditor. A dropdown menu is open for the 'Approver' role, showing a list of roles including 'Approver', 'Person Responsible', and 'Auditor'. The 'Approver' role is highlighted in the dropdown.

| S... | Role | BusinessPa... | Description |
|------|-----------------|---------------|-------------|
| 1 | Approver | | |
| 2 | Person Respo... | | |
| 3 | Auditor | | |

After activation of partner role restriction.

Roles for Audit Management (FMEA/Audit)

FMEA - Customizing

D6733

- Quality Management
 - Basic Settings
 - QM in Logistics
 - Quality Planning
 - Basic Data
 - Inspection Planning
 - Engineering Workbench
 - Failure Mode and Effects Analysis (FMEA)
 - System Modifications
 - Lists
 - FMEA Definition
 - Control Data
 - Data Objects: Define Residence Time
 - Define Partner Functions
 - Authorization Groups
 - Data Objects: Properties, Forms**
 - Specify Number Range Intervals for BAi Implementation

- Quality Management
 - Basic Settings
 - QM in Logistics
 - Quality Planning
 - Basic Data
 - Inspection Planning
 - Engineering Workbench
 - Failure Mode and Effects Analysis (FMEA)
 - System Modifications
 - Lists
 - FMEA Definition
 - Rating
 - FMEA Types**
 - Control Data
 - Risikoanalyse

Customizing for FMEA is comparable to Customizing for Audit Management.

Change View "Specific Settings for Data Objects": Overview

| Object Type | Restrict Roles | ChangeDo... | App. Requ... | Output | At |
|----------------------|-------------------------------------|-------------|-------------------------------------|-------------|----|
| Audit | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> | Adobe | |
| Audit Plan | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | Smart Forms | |
| Corrective and Pr... | <input type="checkbox"/> | Yes | <input type="checkbox"/> | Smart Forms | |
| FMEA | <input checked="" type="checkbox"/> | Yes | <input type="checkbox"/> | Adobe | |
| Question List | <input type="checkbox"/> | No | <input type="checkbox"/> | Smart Forms | |

Change View "FMEA Type": Overview

| FMEA Ty... | FMEA Type | FMEACat. |
|------------|--------------------------------|----------|
| 81 | System FMEA Process | Process |
| 82 | System FMEA Product | Product |
| 99 | FMEA for Assets | Other |
| ZM | I072520 - test - FMEA type | Product |
| ZN | Max Test FMEA Type | Product |
| ZR | RCM FMEA for Assets -Prototyp- | Other |

Change View "Settings for Roles": Overview

FMEA Type: 81 System FMEA Process

| Role | Description | Def. Role | Actn Role |
|------|--------------------|-------------------------------------|--------------------------|
| 51 | Person Responsible | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 62 | Participant | <input type="checkbox"/> | <input type="checkbox"/> |

Roles for Audit Management (FMEA/Audit)

Technical Information

D6733

- Note: 2281966
- No switch in QM Customizing at client level
- Switch AUDIT_SWFS_UI1 has to be activated in order to activate business function OPS_QM_EXTENSIONS
- The new BAdI BADI_PLM_AUD_ROLES_RSTR can be used to determine the permitted roles for the individual components





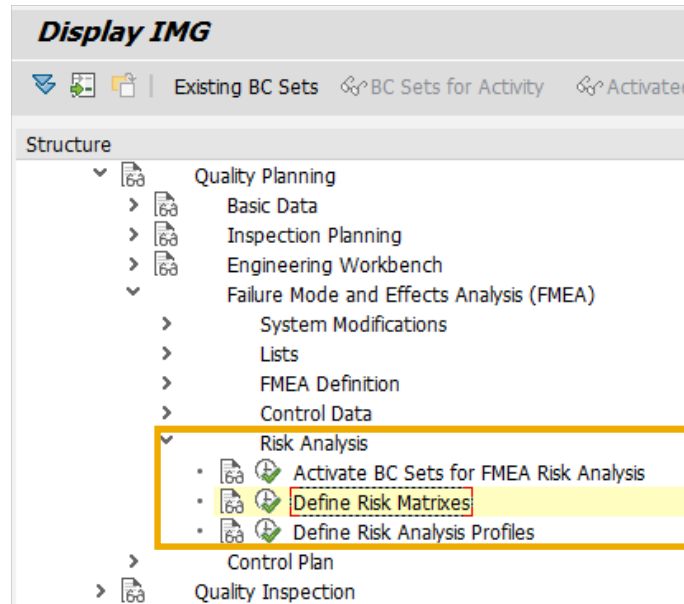
QM within SAP ERP

Outlook

Planned Improvements: FMEA Risk Analysis

Customizing: Risk Matrixes

SAP Labs preview



Change View "Risk Matrix": Overview

Dialog Structure: Risk Matrix

| Matrix | Description of Risk Matrix | X-Axis | Y-Axis |
|--------|----------------------------|--------|--------|
| 100 | S/D | S | D |
| 200 | S/O | S | O |
| 300 | D/O | D | O |
| 400 | S*O/D | S*O | D |
| 500 | S*D/O | S*D | O |
| 600 | O*D/S | O*D | S |

Definition of risk matrixes to perform a risk analysis of the defect causes in the FMEA as an alternative to the risk priority number.

Change View "X-Axis": Overview

Dialog Structure: Risk Matrix > X-Axis

Risk Matrix ID: 100
Desc. Risk Matrix: S/D

| X-Axis | | | |
|-----------|-----------------|-------------------|-----------|
| Sort Seq. | Valuatn Profile | Valuation Profile | Valn Cat. |
| 1 | 8002 | Severity | Severity |

Valuation categories are used to specify defect criteria for each axis. They relate to the different list elements in the FMEA:

- The valuation of the **severity** is done at the level of the effects
- The valuation of the **probability of occurrence** is done at the level of the preventive actions or at the level of causes if no preventive actions exist yet.
- The valuation of the **probability of detection** is done at the level of the detection actions.

Planned Improvements: FMEA Risk Analysis

Customizing: Risk Analysis

SAP Labs preview

Display IMG

Existing BC Sets | BC Sets for Activity | Activated E

Structure

- Quality Planning
 - Basic Data
 - Inspection Planning
 - Engineering Workbench
 - Failure Mode and Effects Analysis (FMEA)
 - System Modifications
 - Lists
 - FMEA Definition
 - Control Data
 - Risk Analysis**
 - Activate BC Sets for FMEA Risk Analysis
 - Define Risk Matrixes
 - Define Risk Analysis Profiles**
 - Control Plan
 - Quality Inspection

Change View "Risk Analysis Profile": Overview

New Entries | BC Set: Change Field Values

Dialog Structure

- Risk Analysis Profile
 - Assign Risk Matrixes
 - Define Views
 - Risk Matrixes for View

| Profile | Description of Risk Analysis Profile | Item Type |
|---------|--------------------------------------|-----------|
| 100 | Standard Risk Analysis | Cause |
| 200 | | Cause |

Change View "Assign Risk Matrixes": Overview

New Entries | BC Set: Change Field Values

Dialog Structure

- Risk Analysis Profile
 - Assign Risk Matrixes
 - Define Views
 - Risk Matrixes for View

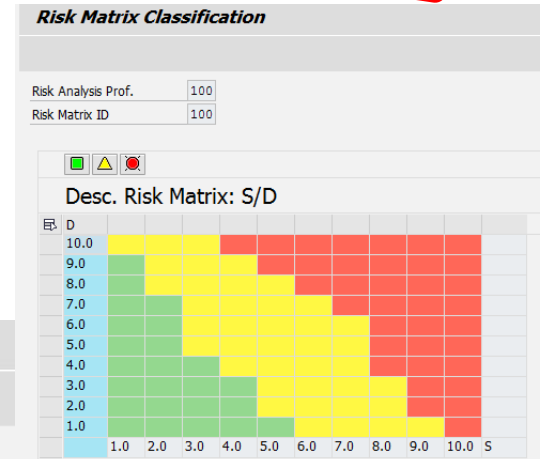
Risk Analysis Prof. 100

Desc. of Profile Standard Risk Analysis

Traffic Lights

| Matrix | Description of Risk Matrix | For Total | For Color | Classification |
|--------|----------------------------|-------------------------------------|-------------------------------------|----------------|
| 100 | S/D | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 200 | S/O | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 300 | D/O | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 400 | S*O/D | <input type="checkbox"/> | <input type="checkbox"/> | |

Risk Analysis Profile: Definition of Traffic Light Color



Classification: The individual cells of the matrix are assigned a traffic light color (red, yellow, or green) to classify a cause in the matrix appropriately.

The classification of a cause in a matrix is used to determine the **total risk** for a cause (green = 0, yellow = 1, red = 2).

Additionally a **traffic light color** is assigned to a cause which is based on the color combination of the relevant matrixes.

| | S/D | S/O | D/O | Resulting Classif. | Traffic Light Color |
|---|-----|-----|-----|--------------------|---------------------|
| 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 1 | 0 | |
| 0 | 0 | 0 | 2 | 1 | |
| 0 | 0 | 1 | 0 | 0 | |
| 0 | 0 | 1 | 1 | 0 | |
| 0 | 0 | 1 | 2 | 1 | |
| 0 | 1 | 1 | 0 | 1 | |
| 0 | 1 | 2 | 0 | 1 | |
| 0 | 2 | 0 | 1 | 2 | |

Planned Improvements: FMEA Risk Analysis

Risk Analysis across several FMEAs

SAP Labs preview

Risk Analysis within the FMEA Monitor

The screenshot displays the SAP FMEA Monitor interface. At the top, the title is "FMEA Monitor: FMEAs". Below the title is a toolbar with various icons, including a search icon, a list icon, a filter icon, a sum icon, a bar chart icon, a grid icon, and a table icon. The "Risk Analysis" icon is highlighted with a yellow box. Below the toolbar is a table with the following data:

| FMEA | Description | Group | Search Fld | Result | Res. Corrected | Max. Pnts | Min. Resu |
|---------------------|------------------------------|-------|------------|--------|--------------------------|-----------|-----------|
| FM11_MOUSE_IC | FMEA Mouse IC | MAX | | 9,0 | <input type="checkbox"/> | 0,0 | 0, |
| FM09_MOUSE | FMEA Computer Mouse | MAX | | 2,0 | <input type="checkbox"/> | 100,0 | 0, |
| FM10_MOUSE_IC_BOARD | FMEA Computer Mouse IC Board | MAX | | 720,0 | <input type="checkbox"/> | 0,0 | 0, |

Below the table, a "Risk Analysis Profile" dialog box is open. The dialog box has a title bar with a close button (X). The main content area shows "Risk Analysis Prof." followed by a text input field containing the value "100" and a copy icon. At the bottom right of the dialog box, there are two buttons: a green checkmark and a red X.

Planned Improvements: FMEA Risk Analysis

Risk Matrixes and Cause Overview

SAP Labs preview

FMEA Monitor: Risk Analysis

Analysis: Actual ▲ 7

Switching between Actual and Target

Main View | Extended View 1 | Extended View 2 | Extended View 3

Desc. Risk Matrix: S/D

Desc. Risk Matrix: S/O

Desc. Risk Matrix: D/O

Traffic light color

| Color | Total... | Selection | FMEA | Description FMEA | Cause | Cause | No. Poi... | Result | Res. Correc... | Action | S/D | S/O | D/O | S*O/D | S*D/O | O*D/S | O (A... | D (A... | O (Tar... |
|-------|----------|-----------|------------------|----------------------|-------------------|------------|------------|--------|--------------------------|--------|-----|-----|-----|-------|-------|-------|---------|---------|-----------|
| | 6 | | FM09_MOUSE | FMEA Computer Mouse | FM9_FL1_F1_D1_C3 | Driver ... | 9,0 | 720,0 | <input type="checkbox"/> | X | 2 | 2 | 2 | 2 | 2 | 2 | 9,0 | 8,0 | 9,0 |
| | 4 | | FM09_MOUSE | FMEA Computer Mouse | FM9_FL1_F1_D1_C4 | Defect... | 2,0 | 200,0 | <input type="checkbox"/> | X | 2 | 2 | 0 | 1 | 2 | 1 | 2,0 | 10,0 | 2,0 |
| | 4 | | FM09_MOUSE | FMEA Computer Mouse | FM9_FL1_F1_D1_C2 | Mouse... | 2,0 | 20,0 | <input type="checkbox"/> | X | 2 | 2 | 0 | 0 | 0 | 0 | 2,0 | 1,0 | 2,0 |
| | 4 | | FM09_MOUSE | FMEA Computer Mouse | FM9_FL1_F1_D1_C1 | Mouse... | 2,0 | 200,0 | <input type="checkbox"/> | X | 2 | 2 | 0 | 1 | 2 | 1 | 2,0 | 10,0 | 2,0 |
| | 2 | | FM10_MOUSE_IC... | FMEA Computer Mus... | FM10_FL1_F1_D1_C2 | Code ... | 2,0 | 140,0 | <input type="checkbox"/> | X | 2 | 0 | 0 | 0 | 1 | 0 | 2,0 | 10,0 | 2,0 |
| | 1 | | FM10_MOUSE_IC... | FMEA Computer Mus... | FM10_FL1_F1_D1_C1 | Cold S... | 1,0 | 21,0 | <input type="checkbox"/> | | 1 | 0 | 0 | 0 | 0 | 0 | 1,0 | 3,0 | 1,0 |
| | 0 | | FM11_MOUSE_IC | FMEA Mouse IC | FM11_FL2_F1_D1_C1 | Error n... | 0,0 | 0,0 | <input type="checkbox"/> | X | 2 | | | | | | 0,0 | 4,0 | 6,0 |
| | 0 | | | FMEA Computer Mouse | FM9_FL1_F1_D1_C5 | Wrong... | 0,0 | 0,0 | <input type="checkbox"/> | X | 2 | | | | | | 0,0 | 10,0 | 10,0 |

Total risk

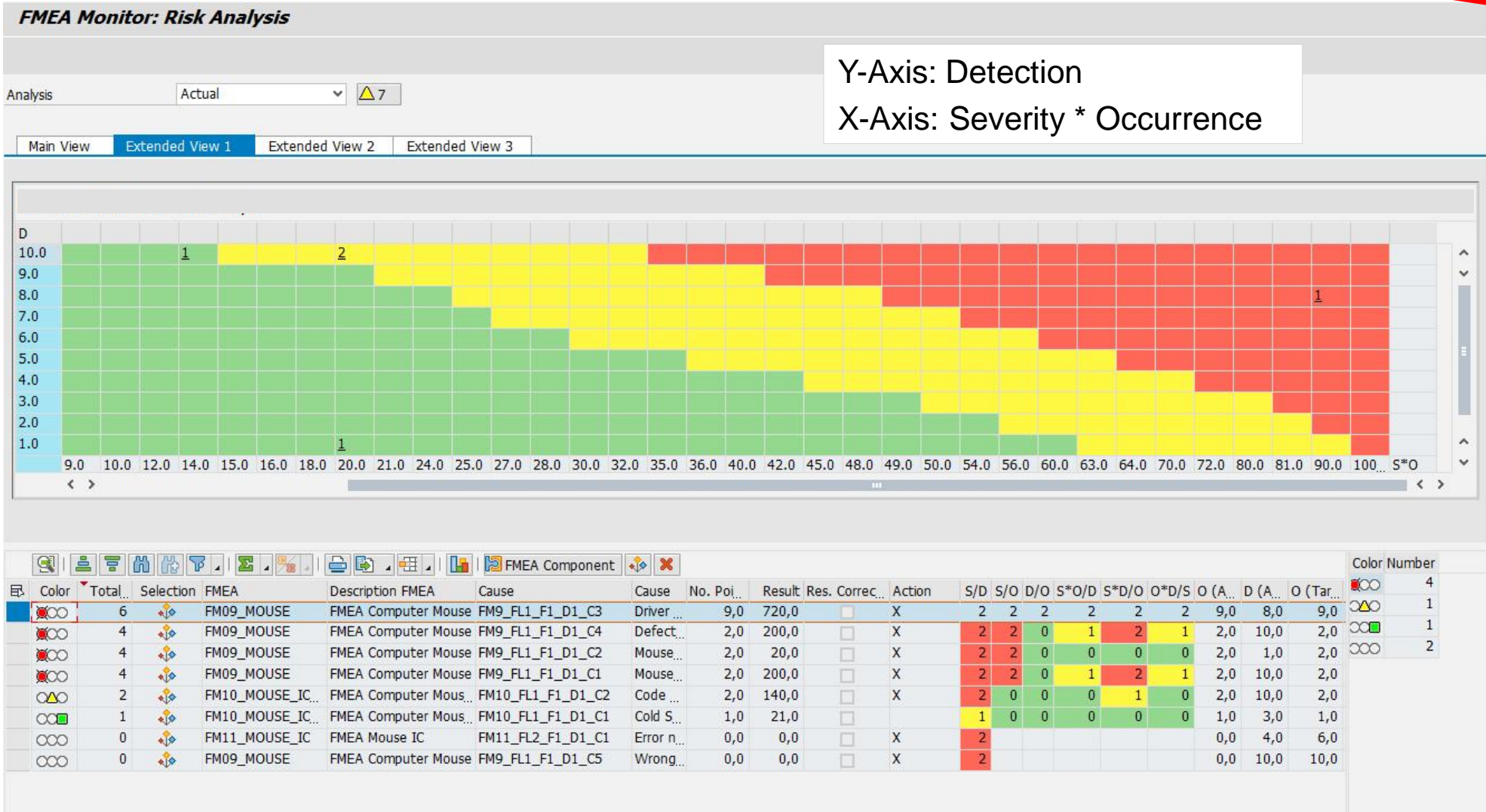
Color Number

- 4
- 1
- 1
- 2

Planned Improvements: FMEA Risk Analysis

Extended View

SAP Labs preview



Planned Improvements: FMEA Risk Analysis

Navigation between Cause Overview and Matrixes

SAP Labs preview

FMEA Monitor: Risk Analysis

Analysis: Actual ▲ 7

Main View | Extended View 1 | Extended View 2 | Extended View 3

Desc. Risk Matrix: S/D

Color Total... Selection FMEA Description FMEA Caus

| Color | Total | Selection | FMEA | Description FMEA | Caus |
|-------|-------|-----------|------------------|----------------------|------|
| | 6 | | FM09_MOUSE | FMEA Computer Mouse | FM9 |
| | 4 | | FM09_MOUSE | FMEA Computer Mouse | FM9 |
| | 4 | | FM09_MOUSE | FMEA Computer Mouse | FM9 |
| | 4 | | FM09_MOUSE | FMEA Computer Mouse | FM9 |
| | 2 | | FM10_MOUSE_IC... | FMEA Computer Mous.. | FM1 |
| | 1 | | FM10_MOUSE_IC... | FMEA Computer Mous.. | FM1 |
| | 0 | | FM11_MOUSE_IC | FMEA Mouse IC | FM1 |
| | 0 | | FM09_MOUSE | FMEA Computer Mouse | FM9 |

After clicking a cell the relevant causes in the overview are marked.

After clicking the button „Select in Matrix“ the relevant cells are marked.

FMEA Monitor: Risk Analysis

Analysis: Actual ▲ 7

Main View | Extended View 1 | Extended View 2 | Extended View 3

Desc. Risk Matrix: S/D

Desc. Risk Matrix: S/O

Desc. Risk Matrix: D/O

FMEA Component

| Color | Total | Selection | FMEA | Description FMEA | Caus |
|-------|-------|-----------|------------------|----------------------|-------------------|
| | 6 | | FM09_MOUSE | FMEA Computer Mouse | FM9 |
| | 4 | | FM09_MOUSE | FMEA Computer Mouse | FM9 |
| | 4 | | FM09_MOUSE | FMEA Computer Mouse | FM9 |
| | 4 | | FM09_MOUSE | FMEA Computer Mouse | FM9 |
| | 2 | | FM10_MOUSE_IC... | FMEA Computer Mous.. | FM10_FL1_F1_D1_C2 |
| | 1 | | FM10_MOUSE_IC... | FMEA Computer Mous.. | FM10_FL1_F1_D1_C1 |
| | 0 | | FM11_MOUSE_IC | FMEA Mouse IC | FM11_FL2_F1_D1_C1 |
| | 0 | | FM09_MOUSE | FMEA Computer Mouse | FM9_FL1_F1_D1_C5 |

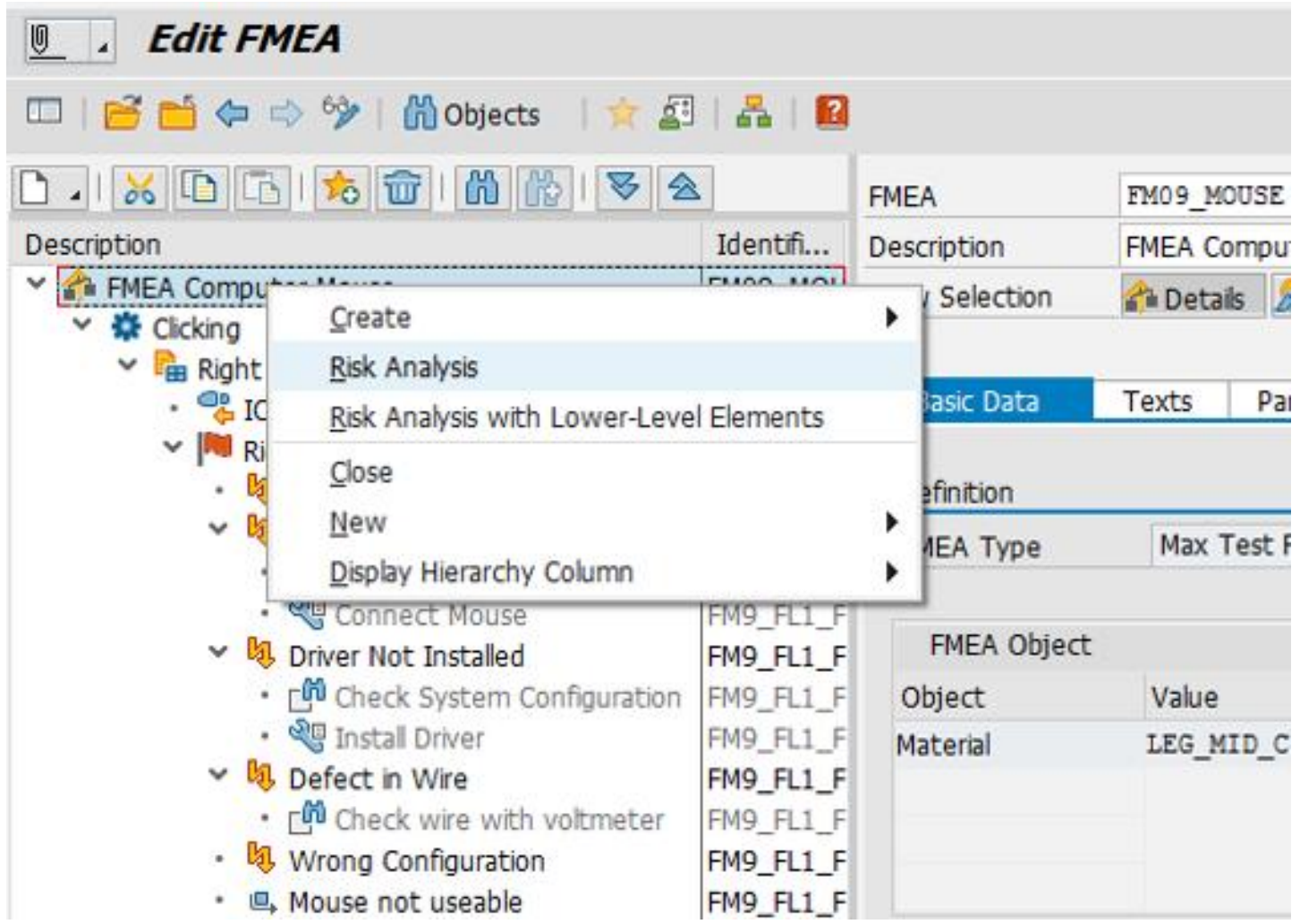
Select in Matrix

Navigation to the FMEA via the button „FMEA Component“.

Planned Improvements: FMEA Risk Analysis

Risk Analysis within FMEA

SAP Labs preview



Planned Improvements: FMEA Moderator View

SAP Labs preview

The screenshot displays the SAP FMEA Moderator View in a dual split screen format. The top pane shows the 'Failure Mode and Effects Analysis' form, which includes fields for identification (XQH-FM1), reference numbers (CSBPERFH0001), and dates (17.10.2016). The bottom pane displays a table of actions with columns for severity (S), criticality (C), preventive actions, detection actions, RPN, and dates.

| S | C | Preventive Actions | Detection Actions | RPN | Pers.R/D | Sev |
|---|--------------------|-----------------------|--|-----|----------------|-----|
| | XQH-FM1-FL1-FU1-E1 | XQH-FM1-FL1-FU1-E1-C1 | (2) XQH-FM1-FL1-FU1-E1-C1... | | - | |
| | | | (2) XQH-FM1-FL1-FU1-E1-U1... | | - / 31.12.2015 | |
| | | | (3) XQH-FM1-FL1-FU1-E1-U1... | | - | |
| | | XQH-FM1-FL1-FU1-E1-C2 | 5... XQH-FM1-FL1-FU1-E1-C2... XQH-FM1-FL1-FU1-E1-C2... | | - \ - | |
| | | | 2 XQH-FM1-FL1-FU1-E1-C2... XQH-FM1-FL1-FU1-E1-C2... | | - \ - | |
| | | | 3 XQH-FM1-FL1-FU1-E1-C2... XQH-FM1-FL1-FU1-E1-C2... | | - \ - | |
| | | | 3 XQH-FM1-FL1-FU1-E1-C2... XQH-FM1-FL1-FU1-E1-C2... | | - \ - | |

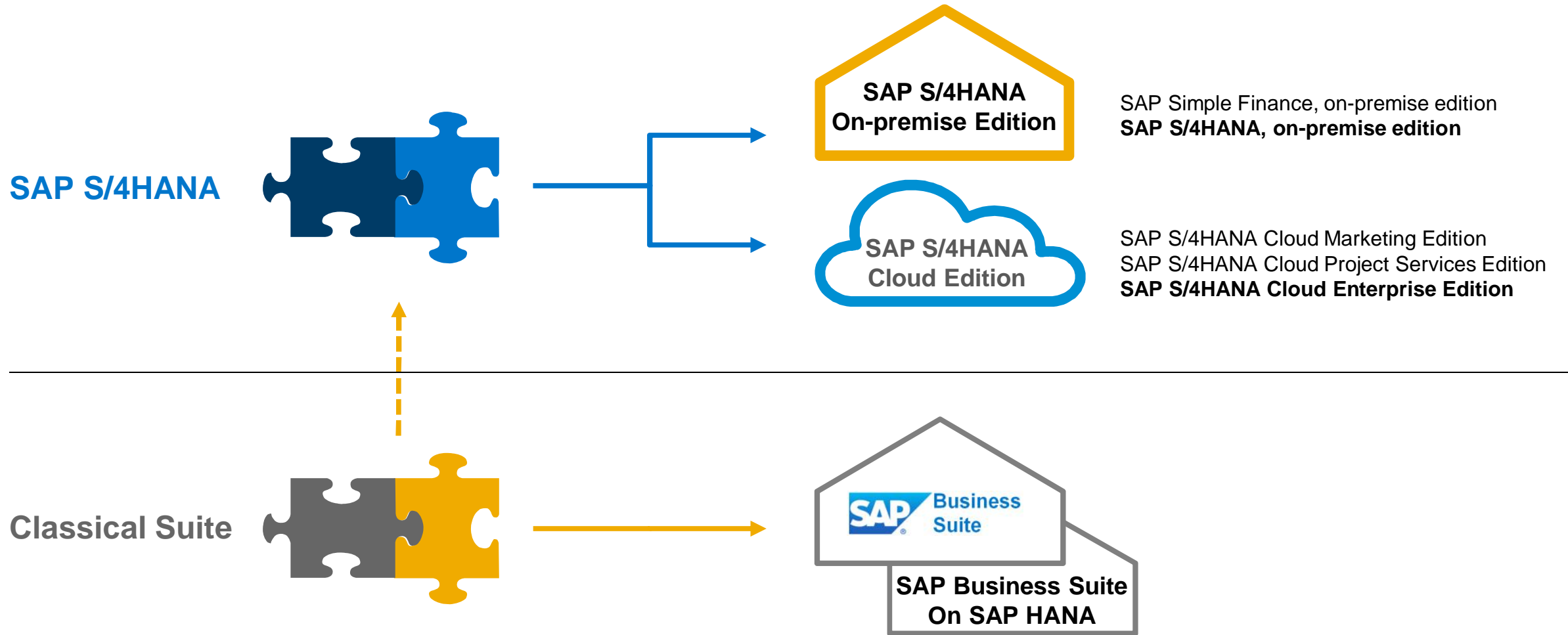
- Dual split screen :
- Form (VDA 96 and QS 9000)
 - Detail



QM within SAP S/4HANA

Current Development Topics

SAP S/4HANA – Overview



Cloud Enterprise Edition

Planned: Quality Management in Procurement

SAP Labs preview

A simple inspection processing is supported by SAP QM within the Cloud Enterprise Edition

Inspection Planning

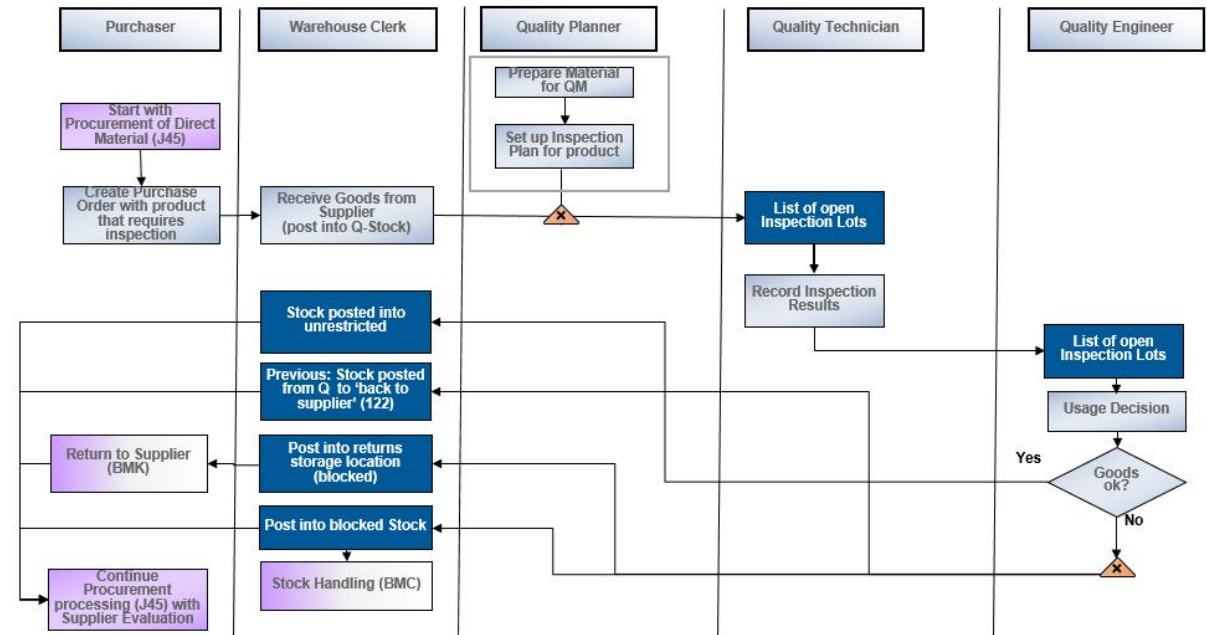
This feature enables the inspection planner to prepare an inspection.

Inspection

This feature enables the quality technician who executes the inspection to record the inspection results for the inspection lot.

Usage Decision

This feature enables the quality manager to complete the inspection by recording the usage decision and by making quantity transfer postings.



Planned with CE1611

Cloud Enterprise Edition

Planned: Quality Management in Discrete Manufacturing

SAP Labs preview

A simple inspection during production is supported by SAP QM within the Cloud Enterprise Edition

Inspection
Planning

Inspection planning within routing and inspection plan

Inspection

Inspection during production with inspection points and for goods receipt from production

Usage
Decision

Usage decision and quantity transfer postings for goods receipt from production



Planned with CE1611

Cloud Enterprise Edition

Fiori Launchpad Different QM Roles

SAP Labs preview

The screenshot displays the SAP Fiori Launchpad interface for Quality Management (QM) roles. The top navigation bar includes the SAP logo and the text 'Startseite'. Below the navigation bar, there are several tabs: 'QM - Prüfplanung', 'QM - Prüfung', 'QM - Verwendungsentscheid', 'Stammdaten - Produkt', 'Stammdaten - Verwaltung', 'Chargenüberwachung', 'Chargenabwicklung', 'Lieferplanabwicklung', and 'Bezugsqu...'. The main content area is divided into three sections, each with a grid of tiles representing different QM functions:

- QM - Prüfplanung:**
 - Prüfplan anlegen
 - Prüfplan ändern
 - Prüfplan anzeigen
 - Auswahlmengen anzeigen
 - Auswahlmengen bearbeiten
 - Codegruppen bearbeiten
 - Codegruppen anzeigen
 - Stammprüfmerkmale anzeigen
 - Stammprüfmerkmal anlegen
- QM - Prüfung:**
 - Stammprüfmerkmal ändern
 - Prüfmethoden anzeigen
 - Prüfmethode anlegen
 - Prüfmethode ändern
 - Stichprobenverfahren anzeigen
 - Stichprobenverfahren anlegen
 - Stichprobenverfahren ändern
 - Prüfergebnisse erfassen
 - Prüfergebnisse erfassen Arbeitsvorrat hierarc...
 - Prüfergebnisse erfassen Zum Vorgang
 - Prüfergebnisse ändern Zum Vorgang
 - Prüfergebnisse anzeigen Zum Vorgang
 - Prüflose anzeigen Arbeitsvorrat
 - Prüflose bearbeiten Arbeitsvorrat
 - Prüfplan anzeigen
 - Codegruppen anzeigen
 - Auswahlmengen anzeigen
 - Verwendungsentscheid anzeigen
 - Stammprüfmerkmale anzeigen
 - Prüfmethoden anzeigen
 - Manage Inspection Lots
 - Quality Technician Overview
- QM - Verwendungsentscheid:**
 - Verwendungsentscheid erfassen
 - Verwendungsentscheid ändern
 - Verwendungsentscheid anzeigen
 - Verwendungsentscheid ändern Ohne Historie
 - Prüflose bearbeiten Arbeitsvorrat
 - Prüflose anzeigen Arbeitsvorrat
 - Prüfergebnisse anzeigen Zum Vorgang
 - Prüfplan anzeigen
 - Codegruppen anzeigen
 - Auswahlmengen anzeigen
 - Manage Usage Decisions
 - Manage Inspection Lots
 - Quality Engineer Overview

Supported Roles:

- Quality Planner
- Quality Technician
- Quality Engineer

Planned with CE1611

Transactional App – Record Inspection Results

Inspection Lot Overview

SAP Labs preview

Record Inspection Results

jkn3

Show Filter Bar Clear Filters Go

32 INSPECTION LOTS 38 OPERATIONS 6 MASTER CHARACTERISTICS

Standard *

| Inspection Lot | Material | Number of Characteristics | Progress of Characteristics | Progress of Operations | Operation Completion | Lot End Date |
|--------------------------------------|----------|---------------------------|--|---|---|--------------|
| <input type="checkbox"/> 04000000000 | SG29 | 2 | <div style="width: 100%; height: 10px; background-color: red;"></div> | <div style="width: 10%; height: 10px; background-color: red;"></div> | <div style="width: 10%; height: 10px; background-color: gray;"></div> | 58 Days Ago |
| <input type="checkbox"/> 04000000100 | SG29 | 2 | <div style="width: 50%; height: 10px; background-color: green;"></div> | <div style="width: 10%; height: 10px; background-color: red;"></div> | <div style="width: 10%; height: 10px; background-color: gray;"></div> | 56 Days Ago |
| <input type="checkbox"/> 01000000103 | SY001 | 2 | <div style="width: 10%; height: 10px; background-color: red;"></div> | <div style="width: 10%; height: 10px; background-color: gray;"></div> | <div style="width: 10%; height: 10px; background-color: gray;"></div> | 56 Days Ago |
| <input type="checkbox"/> 04000000154 | SG29 | 2 | <div style="width: 50%; height: 10px; background-color: green;"></div> | <div style="width: 10%; height: 10px; background-color: red;"></div> | <div style="width: 10%; height: 10px; background-color: gray;"></div> | 55 Days Ago |

Record inspection results

Inspection lot worklist

Record Inspection Results

Characteristics (2)

| Inspection Object | Properties | Inspection Result | Status and Valuation |
|---|--|--|--|
| Surface (0040) Inspection Lot: 010000001462 Operation: 0010 | Summarized Result Required Characteristic | Code Group - Code: <input type="text" value="Code Group - Code"/> | Inspected/Nonconforming: <input type="text" value="0"/> <input type="text" value="0"/> |
| | | Specification: Smooth Surface | Inspect: 3 * 1.00 ST |
| Length this is a MIC long text display i (0050) Inspection Lot: 010000001462 Operation: 0010 | Single Results Required Characteristic | Single Values (cm): <input type="text"/> | Mean Value: 0,000 cm No. Above/... <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> |
| | | Specification: 100,00 .. 200,00 cm Target: 150,00 cm | Inspect: 3 * 1.00 ST |

Planned with CE1611 / OP1610

Transactional App – Record Inspection Results

Characteristic Overview

SAP Labs preview

| Standard * | Master Characteristic (ID/Plant/Version) | Number of Characteristics | Progress of Characteristics |
|-------------------------------------|--|---------------------------|---|
| <input type="checkbox"/> | Length - single - Value - U&L_Rule70 (SQUANSI1/1010/1) | 3 | <div style="width: 100%; height: 10px; background-color: green;"></div> |
| <input checked="" type="checkbox"/> | Surface (YQUALI01/1010/1) | 1 | <div style="width: 100%; height: 10px; background-color: red;"></div> |
| <input checked="" type="checkbox"/> | Surface (YQUALI01/1010/2) | 23 | <div style="width: 100%; height: 10px; background-color: green;"></div> |
| <input type="checkbox"/> | Length this is a MIC long text display i (YQUANT01/1010/1) | 24 | <div style="width: 100%; height: 10px; background-color: green;"></div> |
| <input type="checkbox"/> | Length Value (ZLENGT01/1010/1) | 2 | <div style="width: 100%; height: 10px; background-color: green;"></div> |
| <input checked="" type="checkbox"/> | Surface Value Surface Value the text h (ZSURFC01/1010/1) | 2 | <div style="width: 100%; height: 10px; background-color: green;"></div> |

Record inspection results

Worklist on the level of master inspection characteristics

Several characteristics can be marked

Results recording across inspection lots


| Inspection Object | Properties | Inspection Result | Status and Valuation |
|---|--|--|---------------------------|
| Surface (0010) Inspection Lot: 040000000000 Operation: 0010 | Summarized Result Required Characteristic | Code Group - Code: YBSURFAC - 0040 Specification: Smooth Surface Inspected/Nonconforming: 10 / 0 Inspect: 10 * 1.00 ST | Processing is completed ❌ |
| Surface (0010) Inspection Lot: 010000000162 Operation: 0020 | Summarized Result Required Characteristic | Code Group - Code: SURFACE - 0030 Specification: Smooth Surface Inspected/Nonconforming: 3 / 0 Inspect: 3 * 1.00 ST | Processing is completed ❌ |
| Surface (0010) Inspection Lot: 010000000201 Operation: 0010 | Summarized Result Required Characteristic | Code Group - Code: Code Group - Code Specification: Smooth Surface Inspected/Nonconforming: 0 / 0 Inspect: 20 * 1.00 ST | Must be processed |
| Surface (0040) Inspection Lot: 010000000401 Operation: 0010 | Summarized Result Required Characteristic | Code Group - Code: SURFACE - 0020 Specification: Smooth Surface Inspected/Nonconforming: 1 / 0 Inspect: 1 * 1.00 ST | Processing is completed ✅ |
| Surface (0040) Inspection Lot: 010000000404 Operation: 0010 | Summarized Result Required Characteristic | Code Group - Code: SURFACE - 0040 Specification: Smooth Surface Inspected/Nonconforming: 1 / 1 Inspect: 1 * 1.00 ST | Processing is completed ❌ |
| Surface (0040) Inspection Lot: 010000000751 Operation: 0010 | Summarized Result Required Characteristic | Code Group - Code: SURFACE - 0030 Specification: Smooth Surface Inspected/Nonconforming: 1 / 0 Inspect: 1 * 1.00 ST | Processing is completed ❌ |

Planned with CE1611 / OP1610

Object Page – Inspection Lot

Detailed Data

SAP Labs preview


Inspection Lot
🔍 ?

Goods Receipt Insp. for Purchase Order - 701 (010000000162)
RAW124,VB,Consumption,FixedBin (QMIQC)

Plant: Plant 1 DE (1010) Quantity: **26** PC System Statuses: **INSP RREC SPRQ**
 Material: QMIQC

[RESULT](#) [ORIGIN](#) [GENERAL INFORMATION](#) [USAGE DECISION](#) [STOCK POSTINGS](#) [DOCUMENTS](#) [ADMINISTRATIVE DATA](#)

Operations (2)

| Inspection-Relevant | Valuation | Inspection Operation | Characteristics |
|---------------------|-----------|--|---|
| Yes | ✓ | (10) Quality Check Labs (QMLABS) | 2 |
| Yes | ✗ | (20) Quality Check Labs (QMLABS) | 2 |

Origin

| | | |
|---|---|--|
| Scheduling Lot Start Date: 25.08.2016 Lot End Date: 25.08.2016 | Goods Receipt Supplier: Inlandslieferant DE 6 (Retouren) (10300006) Purchasing Organization: Purch. Org. 1010 (1010) Purchasing Document/Item: 4500001784/10 Material Document Year/Document/Item: 2016/5000000902/1 | Quantities Lot Quantity: 26 PC Actual Lot Quantity: 26 PC Sample Size: 5 PC Postings: 26 PC Destroyed Quantity: 0 PC Defective Quantity: 0 PC |
|---|---|--|

Planned with CE1611 / OP1610

Object Page – Inspection Operation

Detailed Data

SAP Labs preview

Quality Check Labs (QMLABS) / RAW124,VB,Consumption,FixedBin (QMIQC)

Inspection Lot: **010000000162** Number of Characteristics: **2** Progress of Characteristics: **2** Valuation: **Rejected**

Characteristics (2)

| Characteristics | Status | Valuation | Inspected / Nonconforming | Summarized Result | Single Results | Specification |
|---------------------|-------------------------|-----------|---------------------------|----------------------------|----------------|---|
| 0010 Surface | Processing is completed | × | 3 / 0 | Scratches (SURFACE - 0030) | | Smooth Surface Inspect: 3 * 1.00 ST |
| 0020 Length | Processing is completed | × | 3 / 0 | 889,00 cm | | 100,00 .. 200,00 cm Inspect: 3 * 1.00 ST |

Planned with CE1611 / OP1610

Object Page – Master Inspection Characteristics

Detailed Data

SAP Labs preview

The screenshot displays the SAP Master Inspection Characteristics object page. At the top, there is a search bar with the text "Standard *". Below this, a filter section contains several input fields: "Master Inspection Characteristic:" (with a search icon), "Master Characteristic Text:" (with a copy icon), "Version:" (with a copy icon), "Plant:" (with a copy icon), "Search Field:" (containing "SURFACE" and a copy icon), "Status:" (a dropdown menu), "Characteristic Type:" (a dropdown menu), "Copy Model/Reference:" (a dropdown menu), and "Valid From:" (with a copy icon). To the right of these fields is a button labeled "Adapt Filters (1)" and a "Go" button.

Below the filter section is a table titled "Master Inspection Characteristics (2) | Standard". The table has the following columns: Master Inspection Characteristic, Version, Plant, Valid From, Search Field, Status, Characteristic Type, and Copy Model/Reference. There are two rows of data:

| Master Inspection Characteristic | Version | Plant | Valid From | Search Field | Status | Characteristic Type | Copy Model/Reference |
|----------------------------------|---------|-------------------|------------|--------------|----------|---------------------|--------------------------|
| Surface YQUALI01 | 1 | Plant 1 DE (1010) | 19.08.2016 | SURFACE | Released | Qualitative | Reference Characteristic |
| Surface YQUALI01 | 2 | Plant 1 DE (1010) | 19.08.2016 | SURFACE | Released | Qualitative | Reference Characteristic |

On the left side of the page, there is a sidebar with navigation tabs: "GENERAL INFORMATION", "METHODS", "CATALOGS", and "CONTROL INDICATORS". The "CATALOGS" tab is selected. Below the tabs, there are sections for "Catalog Type" (Code Group) and "Characteristic attributes". The "Control Indicators" section is expanded, showing a grid of indicators:

- Qualitative**: Characteristic Attribute: Yes
- Sampling**: Sampling Procedure: Yes; Additive Sample: No; Destructive Inspection: No
- Recording Type**: Summarized Recording; Characteristic Category: Required Characteristic
- Inspection Scope**: Inspection Scope: Fixed Inspection Scope
- Inspection Result**: Document Results: Text Documentation of Test Values Is Not Required
- Miscellaneous**: Long-Term Inspection: No; Change Documents at Results Recording: No

Planned with CE1611 / OP1610

Overview Page – Manage Usage Decision

Worklist for the Quality Engineer

SAP Labs preview

Quality Engineer Overview

Standard

Plant: Insp. Lot Origin:


Lots without Inspection Plan
Sorted by Creation Date

| | | |
|-------------|------|-------|
| 10000000000 | 0001 | 10 EA |
| 10000000000 | 0001 | 10 EA |
| 10000000050 | 0001 | 10 EA |

Showing 3 of 1873

Inspection Lot without Usage Decision

1.873



- Results Recording Completed
- Results Recording Completed with Deviation
- Results Recording In Process
- Results Recording Not Started

Manage Usage Decisions

Standard *

Inspection Lots (1.303) Standard

| Inspection Lot | Inspection Lot Text | Inspection Type | Plant | End of Inspection | Material | Progress of Characteristics | Rejected / Total Characteristics | Usage Decision | Actions |
|----------------|-------------------------------------|--|----------------------------|-------------------|---|-----------------------------|----------------------------------|----------------|----------|
| 010000000000 | | 01 Goods Receipt Insp. for Purchase Order | 0001 MDG Plant 0001 new | 22.05.2015 | HU-EMAT Shock absorber | 2 of 4 | 0 / 4 | Accept | Change > |
| 010000000050 | test | 01 Goods Receipt Insp. for Purchase Order | 0001 MDG Plant 0001 new | 17.07.2015 | HU-EMAT890123456789212345678931234567894 Shock absorber - long | 510 of 516 | 0 / 516 | Accept | Change > |
| 0100000000150 | | 01 Goods Receipt Insp. for Purchase Order | 0001 MDG Plant 0001 new | 22.07.2015 | HU-EMAT Shock absorber | 6 of 6 | 0 / 6 | Accept | Change > |
| 0100000000200 | | 01 Goods Receipt Insp. for Purchase Order | 0001 MDG Plant 0001 new | 22.07.2015 | HU-EMAT Shock absorber | 164 of 170 | 2 / 170 | Rejected | Change > |
| 0100000000250 | | 01 Goods Receipt Insp. for Purchase Order | 0001 MDG Plant 0001 new | 12.08.2015 | IP1 Irish Hereford Ribeye Steak "Dry-Aged" | 54 of 141 | 6 / 141 | Accept | Change > |
| 0100000000300 | | 01 Goods Receipt Insp. for Purchase Order | 0001 MDG Plant 0001 new | 13.08.2015 | IP1 Irish Hereford Ribeye Steak "Dry-Aged" | 57 of 102 | 12 / 102 | | Make > |
| 0100000000351 | M is short text for lot 10000000351 | 01 Goods Receipt Insp. for Purchase Order | 0001 MDG Plant 0001 new | 24.08.2015 | HU-ACID01 Hydrochloric Acid | 70 of 70 | 0 / 70 | | Make > |
| 0100000000354 | | 01 Goods Receipt Insp. for Purchase Order | 0001 MDG Plant 0001 new | 24.08.2015 | HU-ACID01 Hydrochloric Acid | 7 of 7 | 0 / 7 | | Make > |

Planned with CE1611



QM within SAP S/4HANA

Outlook

Object Page – Results History

Evaluation of quantitative Characteristics

SAP Labs preview

Record results
result history
analytical overview.

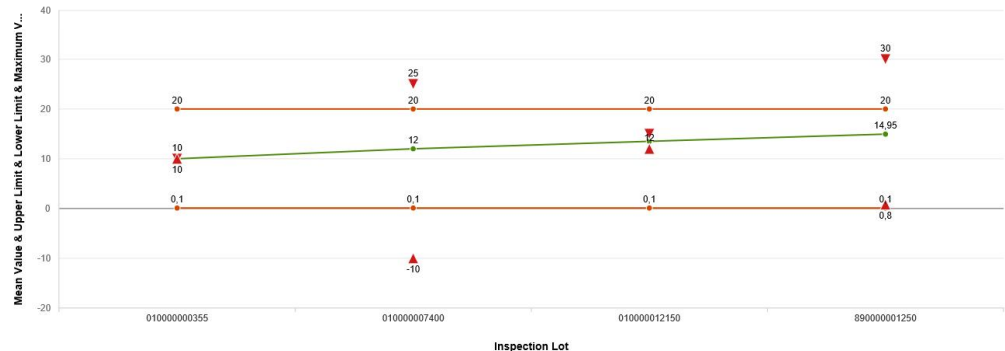
Aggregated list on the level of characteristics



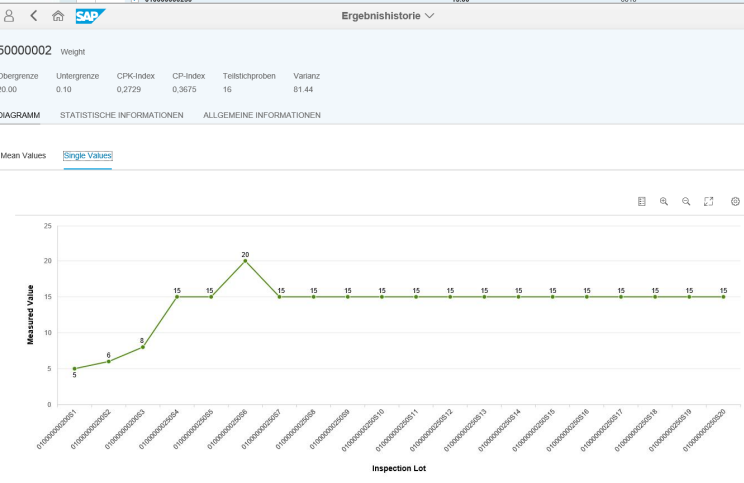
| Characteristic | Mittelwert | Variance | Oberer Grenzwert | Unterer Grenzwert | cp-Index | cpk-Index | Kurztext | Lose | Geprüft |
|----------------|------------|----------|------------------|-------------------|----------|-----------|------------------------|------|---------|
| Operation 20 | 5.91 | 1.22 | 4 | 3 | 0,1509 | -0,5769 | Length in Operation 20 | 9 | 45 > |
| Weight | 13.50 | 4.50 | 20 | 0,1 | 1,5635 | 1,0214 | Weight | 1 | 2 > |
| | 43.67 | 0.00 | 0 | 0 | | | | 1 | 3 > |
| | 10.00 | 0.00 | 0 | 0 | | | | 1 | 5 > |

Mean values

Mean Values



| InspectionResult | Standard | Measured value | Operation/Activity | Material |
|------------------|----------|----------------|--------------------|----------|
| 010000000200 | | 5.00 | 0010 | HJ-EMAT |
| 010000000200 | | 6.00 | 0010 | HJ-EMAT |
| 010000000200 | | 8.00 | 0010 | HJ-EMAT |
| 010000000200 | | 15.00 | 0010 | HJ-EMAT |
| 010000000250 | | 15.00 | 0010 | IP1 |
| 010000000250 | | 20.00 | 0010 | IP1 |
| 010000000250 | | 15.00 | 0010 | IP1 |
| 010000000250 | | 15.00 | 0010 | IP1 |
| 010000000250 | | 15.00 | 0010 | IP1 |
| 010000000250 | | 15.00 | 0010 | IP1 |
| 010000000250 | | 15.00 | 0010 | IP1 |
| 010000000250 | | 15.00 | 0010 | IP1 |
| 010000000250 | | 15.00 | 0010 | IP1 |
| 010000000250 | | 15.00 | 0010 | IP1 |
| 010000000250 | | 15.00 | 0010 | IP1 |
| 010000000250 | | 15.00 | 0010 | IP1 |
| 010000000250 | | 15.00 | 0010 | IP1 |
| 010000000250 | | 15.00 | 0010 | IP1 |
| 010000000250 | | 15.00 | 0010 | IP1 |
| 010000000250 | | 15.00 | 0010 | IP1 |
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Planned with CE1702 / OP1709

SAP S/4HANA Enterprise Management Cloud

Quality Management

SAP Labs preview

1608 - Recent Innovations *

1611 - Planned Q4/2016**

1702 - Planned Q1/2017 **

1705 - Planned Q2/2017 **

Quality Management

Process Innovations

- CDS views for important objects in Quality Management

Quality Management

Process Innovations

- Simplified processes for Quality Management in Procurement & Production
- Support for core QM processes with new roles with SAP Fiori user experience (UX)
- Integrated search functionality in SAP Fiori with further navigation targets
- New Fiori transactional app for results recording helps quality technicians to record inspection results easily and efficiently

User Experience

- Support for core QM processes with new roles in the SAP Fiori user experience (UX)
- Easy-to-use UIs for recording the results of different types of inspection characteristics
- Simple and intuitive object pages that display information about QM objects

Quality Management

Process Innovations

- New Fiori transactional app monitoring inspection lots and making usage decision
- Enhanced Fiori transactional app for results recording
- Analytics for inspection results

User Experience

- Flexible and state-of-the-art worklists for managing inspection lots
- Newly designed object pages with charts to display results history and single values in graphical form

Quality Management

Process Innovations

- Enhanced Fiori transactional app for results recording
- Enhanced launchpads for roles in Quality Management
- Fiori apps to improve quality control by monitoring and adjusting processes
- Analytics for inspection lot data

User Experience

- Additional object pages in SAP Fiori for a wide range of quality objects
- Improved method of controlling quality by monitoring the quality status and making the right decisions in time and based on facts

*Feature highlights for SAP S/4HANA Enterprise Cloud 1608. See [Feature Scope Description](#) of S/4HANA Cloud 1608 for full scope.

**This is the current state of planning and may be changed by SAP at any time.

SAP S/4HANA – On-Premise

Quality Management

SAP Labs preview

Recent innovations *

Quality Management

Process Innovations

- Support for core QM processes with new roles with SAP Fiori user experience (UX) for:
 - Quality technicians, quality engineers, quality planners, quality managers, quality auditors, calibration technicians
- Option to search for important quality-related objects
- CDS views for quality inspections and master data
- New Fiori transactional app for results recording helps quality technicians to record inspection results easily and efficiently
- Simplified inspection process in EWM within S/4 (first scope)

User Experience

- Support for core QM processes with new roles with SAP Fiori user experience (UX)
- Integrated search functionality in SAP Fiori with further navigation targets
- Easy-to-use user interfaces for recording the results of different types of inspection characteristics
- Simple and intuitive object pages that display information about QM objects

*Feature highlights for SAP S/4HANA 1610. See [Feature Scope Description](#) of S/4HANA 1610 for full scope.

Planned innovations **

Quality Management

Process Innovations

- New Fiori transactional app for monitoring inspection lots and making usage decisions
- Enhanced Fiori transactional app for results recording
- Fiori apps to improve quality control by monitoring and adjusting processes
- Analytics for inspection results
- Simplified inspection process in EWM within S/4 (extended scope)

User Experience

- Enhanced SAP Fiori app for results recording (extended version)
- Additional object pages in SAP Fiori for a wide range of quality objects
- Improved method of controlling quality by monitoring the quality status and making the right decisions in time and based on facts
- Flexible and state-of-the-art worklists for inspection lots
- Newly designed object pages with charts to display results history and single values in graphical form

Future direction **

Quality Management

Process Innovations

- Simplified test-equipment management
- Analytics for inspection lot data
- Simplified inspection planning process
- Enhanced launchpads for roles in Quality Management

User Experience

- SAP Fiori app for results recording (extended version)
- Additional object pages in SAP Fiori for a wide range of quality objects
- Further flexible and state-of-the-art worklists and Fiori apps for quality related objects

**This is the current state of planning and may be changed by SAP at any time.



Thank you

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