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1. AUDIT TRAIL

Version	Change Description
Version 2.5.1	2.5.1 is an update for 2.5.0 with some minor improvements and bug fixes

2. REMARKS

3. SIGNATURES

Signature Meaning	Name	Role	Date	Signature
Author	Ignas Žakaitis	QA Responsible	2025/01/30 12:54:02	 sign-p14-i188725-b20250130115402411
Reviewer	Tilman Schlenker	CTO	2025/01/30 12:48:48	 sign-p14-i188725-b20250130114848463
Reviewer	François Chasseur	Deputy CTO	2025/01/30 15:37:36	 sign-p14-i188725-b20250130143736815
Reviewer	Olena Motrichuk	Product Owner	2025/02/03 09:13:50	sign-p14-i188725-b20250203081350277
Approver	Ann Vankrunkelsven	RAQA Responsible	2025/01/30 13:03:14	 sign-p14-i188725-b20250130120314986

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4. PURPOSE

Documentation of verification and validation results of Matrix Requirements Release 2.5.1.0-a0b27de

5. SCOPE

This release with number 2.5.1.0-a0b27de is a patch of the 2.5.1 release and contains the changes listed in the "Appendix: Changes" below.

6. REFERENCES AND APPLICABLE DOCUMENTS

- [SIGN-613](#) Project Kickoff Form
- [SIGN-454](#) Verification and Validation Plan, Ver. F
- [SIGN-587](#) Software Development Plan, Ver.H

7. RESPONSIBILITIES

Name	Responsibility
Ignas Žakaitis	creating tests, testing
François Chasseur	coding, creating tests, code review
Siarhei Klimovich	coding, creating tests, code review
Tilman Schlenker	coding, creating tests, code review
Aloïs Paulus	coding, creating tests, code review
Daniel Kula	coding, creating tests, code review
Michael Stanton	coding, creating tests, code review
Sylvain Caillet	coding, creating tests, code review


8. VERIFICATION AND VALIDATION SUMMARY

8.0.1. Validation Summary

No validation was required due to the scope of changes.

8.0.2. Verification Summary

- The critical code changes were reviewed and no major issue was found. The minor issues were fixed.

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- Two remaining non-critical issues found in the test cycle were documented as known issues and will be fixed in one of the upcoming releases.
- The tests were executed using one build (2.5.1.0-a0b27de) and no issues were found in the final build

8.0.3. Final Verdict

No new blocking issue was found and the software build 2.5.1.0-a0b27de can be released.

9. VERIFICATION DETAILS

All changes have been reviewed and tests have been executed to ensure they are working. The traceability has been reviewed to make sure all changes have been implemented, reviewed and tested as planned.

Notes

- It was verified that above changes were all changes done to the source code (nothing else changed than the planned changes)
- tests were executed after the last code review
- all FEAT have been tested (see Appendix: Test Results)

10. VALIDATION DETAILS

n/a - see above

11. RISK ANALYSIS DETAILS

0 new risks have been identified with this release.

12. APPENDIX: CHANGES

FEAT-1137 ID parsing is failing in processCrossProjectSmartLinks
Can't print documents with hash marks
The cross project link parsing is failing on certain combinations of hash marks in the full text, blocking the printing process.

FEAT-1138 Formatting breaks in Excel PRINT export

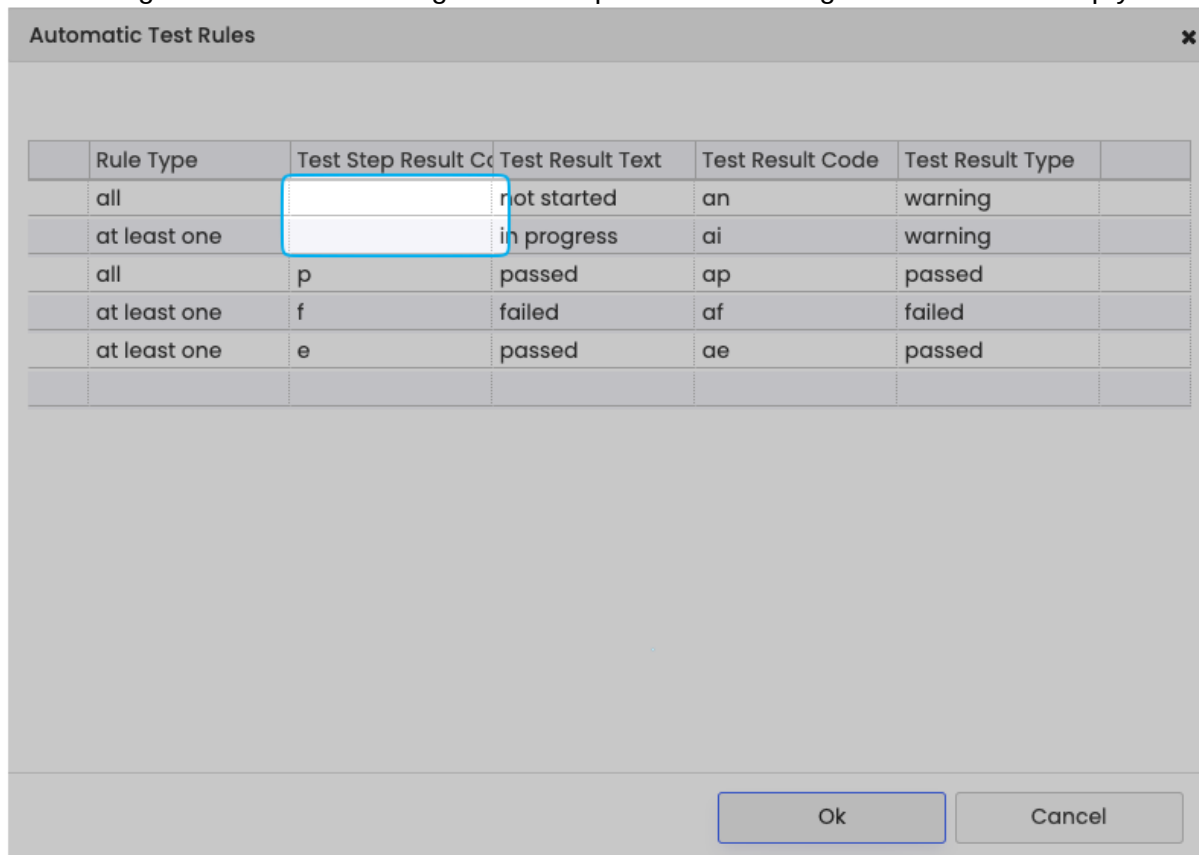
Formatting do not break in Excel PRINT export

handling the div element added during editing the headers in rich text editor

FEAT-1141 XTC automatic result not working as expected when using "at least one" "empty" = "in progress")

Test result dropdown automatic result handles empty values correctly.

When using the GUI for test configuration the param is not stringified if the cell is empty :




Rule Type	Test Step Result Code	Test Result Text	Test Result Code	Test Result Type
all		not started	an	warning
at least one		in progress	ai	warning
all	p	passed	ap	passed
at least one	f	failed	af	failed
at least one	e	passed	ae	passed

Now we make sure that the JSON saved is handle correctly within the Test result dropdown when the value is set to automatic.

FEAT-1139 Test configuration in risk settings do not work

Test configuration in risk settings do not work

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Test configuration in risk settings do not work. Now it uses the config as it changes overtime, so the control can be tested right away.

FEAT-1144 Copying fields in Category admin can result in random order

Copying a Category would copy all fields in an unspecified order

Copying of fields is now strictly ordered

FEAT-1143 Branch Merge fails with modification on top-level folder

After modifying the top level folder, e.g. by modifying the title of F-SPEC-1, merge would fail.

Merging now handles top-level folders correctly.

FEAT-1147 When making a PUSH with Branching, the button is now called "Push"

The button is now Push when Pushing and Merge when Merging

The button is now Push when Pushing and Merge when Merging

FEAT-1148 Using HTML page breaks affects document headers

When using CSS based page breaks in HTML, for example in text boxes or Custom Print, then the pages with the break would not have a header or footer. This is caused by `style="page-break-after:always"`

We added a sever option that, when enabled, replaces page-break-after with page-break-before. When used on a standalone tag (without content) this results in the same page break, without losing the header. It does not result in the same content when used on a div with content.

e.g.

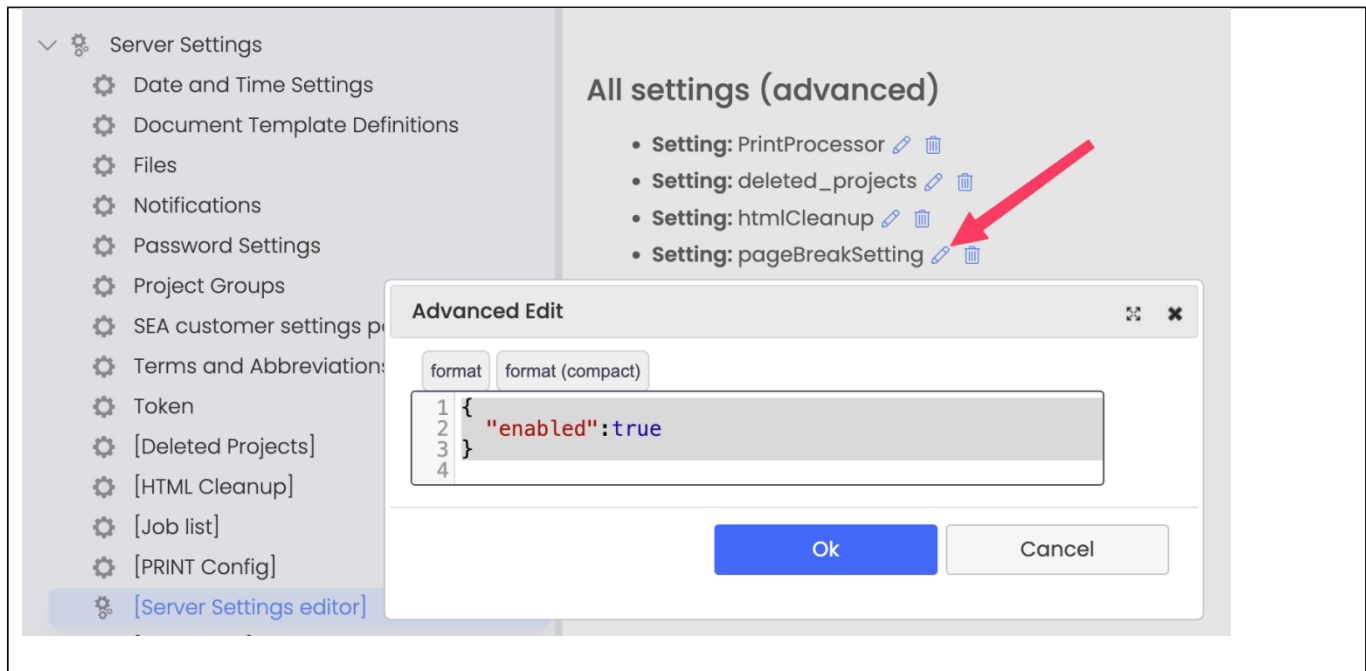
```
<div style="page-break-after:always">Content</div>
```

This would have the break after "Content" before, and with the fix the break will be before "Content".

To avoid this problem altogether, use "page-break-before" in all cases.

To enable this fix, go to the Server Settings editor and add a new setting with the key "pageBreakSetting" and the following content:


```
{
  "enabled":true
}
```



13. APPENDIX: TEST RESULTS

Item	Tested By	Execution Date	Last Modification	Test Result
FEAT-1137 ID parsing is failing in processCrossProjectSmartLinks	XTC-5626 Cross Project Links Tests (TC-30)	2025/01/24	2025/01/24 10:15:20	passed
	XTC-5627 smart tag test (TC-325)	2025/01/23	2025/01/23 19:40:06	passed
	XTC-5628 Smart links and breadcrumbs (TC-94)	2025/01/23	2025/01/24 18:42:49	passed
	XTC-5629 Verify that URsL are not detected as cross project links (TC-585)	2025/01/23	2025/01/23 19:19:15	passed
FEAT-1138 Formatting breaks in Excel PRINT export	XTC-5535 Div from rich text	2025/01/23	2025/01/23 15:42:57	passed

All dates and times are in the project's default time zone and formatting.


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Item	Tested By	Execution Date	Last Modification	Test Result
	field do not break excel formatting (TC-586)			
FEAT-1141 XTC automatic result not working as expected when using "at least one" "empty" = "in progress)	XTC-5540 Empty Automatic result test (TC-591)	2025/01/23	2025/01/23 19:14:47	passed
	XTC-5599 XTC creation filter inheritance (ATC-26)	2025/01/23	2025/01/23 11:38:26	passed
FEAT-1139 Test configuration in risk settings do not work	XTC-5534 Risk Customization (TC-28)	2025/01/24	2025/01/28 17:10:08	passed with deviation
FEAT-1144 Copying fields in Category admin can result in random order	XTC-5537 Category Copy Test (TC-227)	2025/01/23	2025/01/23 16:29:31	passed
FEAT-1143 Branch Merge fails with modification on top-level folder	XTC-5525 Merging and Branching (UC-38)	2025/01/27	2025/01/27 11:47:59	passed
	XTC-5616 Folder Merging (ATC-33)	2025/01/23	2025/01/23 13:55:00	passed
FEAT-1147 When making a PUSH with Branching, the button is now called "Push"	XTC-5525 Merging and Branching (UC-38)	2025/01/27	2025/01/27 11:47:59	passed
	XTC-5616 Folder Merging (ATC-33)	2025/01/23	2025/01/23 13:55:00	passed
FEAT-1148 Using HTML page breaks affects document headers	XTC-5536 Page Break Test (TC-587)	2025/01/23	2025/01/23 15:52:43	passed

14. APPENDIX: ADDITIONAL REGRESSION TESTS


Executed Test Case	Execution Date	Last Modification	Test Result
XTC-5508 Smoke Test (UC-1)	2025/01/27	2025/01/27 14:39:31	passed

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Executed Test Case	Execution Date	Last Modification	Test Result
XTC-5509 Variations, Labels and Filter (UC-8)	2025/01/24	2025/01/24 16:06:56	passed
XTC-5510 Review With Labels (UC-3)	2025/01/24	2025/01/28 17:01:52	passed
XTC-5511 Items and Field Rendering (UC-5)	2025/01/24	2025/01/24 16:30:32	passed
XTC-5512 Item Tree and Navigation and Keyboard (UC-6)	2025/01/24	2025/01/24 17:24:08	passed
XTC-5513 Traceability Test (UC-7)	2025/01/24	2025/01/24 17:29:43	passed
XTC-5514 Testing (UC-9)	2025/01/24	2025/01/24 18:38:05	passed
XTC-5515 Risk Management (UC-10)	2025/01/24	2025/01/24 21:29:18	passed
XTC-5516 Controlled Document Test (UC-11)	2025/01/24	2025/01/24 21:38:53	passed
XTC-5517 Controlled Document Content Test (UC-16)	2025/01/27	2025/01/27 10:49:52	passed
XTC-5518 Audit Log (UC-12)	2025/01/24	2025/01/24 18:57:43	passed
XTC-5519 Searching And Filtering (UC-13)	2025/01/24	2025/01/24 18:40:22	passed
XTC-5520 Email (UC-15)	2025/01/24	2025/01/24 18:54:46	passed
XTC-5521 Design Reviews (UC-27)	2025/01/27	2025/01/27 11:26:41	passed
XTC-5522 XTC Status overview (UC-29)	2025/01/24	2025/01/24 21:43:26	passed
XTC-5523 Traceability Overview dashboard (UC-31)	2025/01/24	2025/01/24 21:47:44	passed
XTC-5524 Concurrent work (UC-36)	2025/01/27	2025/01/27 09:30:15	passed
XTC-5526 Gates (UC-25)	2025/01/27	2025/01/27 12:17:23	passed
XTC-5527 Compose Module (UC-39)	2025/01/27	2025/01/27 09:24:02	passed
XTC-5528 Detailed history view (UC-35)	2025/01/27	2025/01/27 09:17:07	passed
XTC-5529 Cleanup tools (UC-33)	2025/01/27	2025/01/27 08:51:20	passed

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Executed Test Case	Execution Date	Last Modification	Test Result
XTC-5530 Multiple risk categories in one project (UC-32)	2025/01/27	2025/01/27 08:45:46	passed
XTC-5531 FMEA table editing (UC-30)	2025/01/27	2025/01/27 08:44:04	passed
XTC-5532 Frequently Used Functions (UC-37)	2025/01/24	2025/01/24 10:48:27	passed
XTC-5533 Other QMS functions (UC-17)	2025/01/24	2025/01/24 13:17:20	passed
XTC-5626 Cross Project Links Tests (TC-30)	2025/01/24	2025/01/24 10:15:20	passed
XTC-5627 smart tag test (TC-325)	2025/01/23	2025/01/23 19:40:06	passed
XTC-5628 Smart links and breadcrumbs (TC-94)	2025/01/23	2025/01/24 18:42:49	passed
XTC-5538 Update RISK/FMEA based on HAZARD Legacy IDs (TC-589)	2025/01/23	2025/01/23 19:04:16	passed
XTC-5629 Verify that URSL are not detected as cross project links (TC-585)	2025/01/23	2025/01/23 19:19:15	passed
XTC-5539 Reindexing Risk that depends on hazard (TC-590)	2025/01/23	2025/01/23 19:09:51	passed
XTC-5541 Global toggle for edit mode (TC-592)	2025/01/23	2025/01/28 09:58:20	passed
XTC-5584 Compose v2 (ATC-3)	2025/01/23	2025/01/23 08:48:41	passed
XTC-5585 Compose Update (ATC-4)	2025/01/23	2025/01/23 08:49:56	passed
XTC-5586 Compose License Check (ATC-8)	2025/01/23	2025/01/23 08:51:28	passed
XTC-5588 Verify Restricted Access to User Details (ATC-11)	2025/01/23	2025/01/23 08:53:23	passed
XTC-5589 Token Permissions (ATC-36)	2025/01/23	2025/01/23 09:22:00	passed
XTC-5590 Password Strength settings (ATC-10)	2025/01/23	2025/01/23 09:23:30	passed
XTC-5591 Password reset duration (ATC-45)	2025/01/23	2025/01/23 09:26:48	passed
XTC-5592 Generate multiple SIGN (ATC-15)	2025/01/23	2025/01/23 09:28:01	passed
XTC-5593 Converting TC to XTC Dead Links (ATC-18)	2025/01/23	2025/01/23 09:29:27	passed

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XTC-5594 Help Button (ATC-20)	2025/01/23	2025/01/23 10:18:15	passed
XTC-5595 Project Navigation (ATC-21)	2025/01/23	2025/01/23 10:47:12	passed
XTC-5596 Delete categories in admin (ATC-22)	2025/01/23	2025/01/23 11:31:55	passed
XTC-5597 Project Renaming (ATC-24)	2025/01/23	2025/01/23 11:33:46	passed
XTC-5598 Search text (ATC-25)	2025/01/23	2025/01/23 11:34:51	passed
XTC-5600 Out of Date Indication (ATC-27)	2025/01/23	2025/01/23 11:40:14	passed
XTC-5601 Project Groups (ATC-30)	2025/01/23	2025/01/23 11:43:38	passed
XTC-5602 MRQL: Review search (ATC-31)	2025/01/23	2025/01/23 11:45:14	passed
XTC-5604 Downlinks in Locked Items (ATC-37)	2025/01/23	2025/01/23 11:46:46	passed
XTC-5605 Copied Category ID and Name (ATC-38)	2025/01/23	2025/01/23 11:47:56	passed
XTC-5606 Re-indexing of items after configuration change (ATC-39)	2025/01/23	2025/01/23 11:50:57	passed
XTC-5607 Published Item Order (ATC-42)	2025/01/23	2025/01/23 11:55:18	passed
XTC-5608 VisibleOption hides field in folder (ATC-43)	2025/01/23	2025/01/23 11:55:26	passed
XTC-5609 Required fields (ATC-44)	2025/01/23	2025/01/23 11:57:00	passed
XTC-5610 Search Tabbing (ATC-46)	2025/01/23	2025/01/23 12:00:40	passed
XTC-5611 Search List Limit (ATC-47)	2025/01/23	2025/01/23 13:51:43	passed
XTC-5612 Risk Factor Options (ATC-48)	2025/01/23	2025/01/23 13:52:00	passed
XTC-5613 Automatic XTC results (ATC-50)	2025/01/23	2025/01/23 13:52:17	passed
XTC-5614 Field Default Values (ATC-51)	2025/01/23	2025/01/23 11:55:45	passed
XTC-5615 Detailed Merge Test (ATC-16)	2025/01/23	2025/01/23 13:54:29	passed

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XTC-5617 Last Child Searches (ATC-17)	2025/01/23	2025/01/23 13:55:29	passed
XTC-5618 Uplink, Downlink and Folder Search (ATC-9)	2025/01/23	2025/01/23 13:55:47	passed
XTC-5619 MRQL Test Searches (ATC-28)	2025/01/23	2025/01/23 13:56:15	passed
XTC-5620 MRQL risk search (ATC-35)	2025/01/23	2025/01/23 13:56:31	passed
XTC-5621 Author and Editor Searches (ATC-34)	2025/01/23	2025/01/23 13:56:55	passed
XTC-5622 Dropdown and Label Searches (ATC-19)	2025/01/23	2025/01/23 13:57:13	passed
XTC-5623 Categories Ending in F Searching (ATC-23)	2025/01/23	2025/01/23 13:57:32	passed
XTC-5624 Date Searches (ATC-40)	2025/01/23	2025/01/23 13:57:52	passed
XTC-5625 Calendar of Changes (ATC-14)	2025/01/23	2025/01/23 13:58:21	passed