

	<b>Verification and Validation Report Ver 2.5.5</b>	
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## 2. AUDIT TRAIL

Version	Change Description
Version 2.5.5	2.5.5 is an update for 2.5.4 with some minor improvements and bug fixes

## 3. REMARKS


## 4. SIGNATURES

Signature Meaning	Name	Role	Date	Signature
Author	Ignas Žakaitis	QA Lead	2026/02/24 09:58:42	 <b>sign-p14-i220664- b20260224085842077</b>
Reviewer	Nicolas Von Bandel	CPO	2026/02/24 10:19:52	 <b>sign-p14-i220664- b20260224091952994</b>
Approver	Abbas Dhilawala	CTO	2026/02/25 16:02:05	 <b>sign-p14-i220664- b20260225150205588</b>

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## 5. PURPOSE

Documentation of verification and validation results of Matrix Requirements Release 2.5.5.0-5941003

## 6. SCOPE

This release with number 2.5.5.0-5941003 is a patch of the 2.5.4 release and contains the changes listed in the "Appendix: Changes" below.

## 7. RESPONSIBILITIES

Name	Responsibility
Ignas Žakaitis	Test plan, verification, creating reports
François Chasseur	Coding, code review
Michael Stanton	Coding, code review
Aloïs Paulus	Coding, code review
Sylvain Caillet	Infrastructure setup

## 8. VERIFICATION AND VALIDATION SUMMARY

### 8.0.0.1. Validation Summary

No validation was required due to the scope of changes.

### 8.0.0.2. Verification Summary

- The critical code changes were reviewed and no major issue was found. The minor issues were fixed.
- No new issues have been identified.
- The tests were executed using one build (2.5.5.0-5941003) and no new issues were found in the final build

### 8.0.0.3. Final Verdict

No new blocking issue was found and the software build 2.5.5.0-5941003 can be released.

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## 9. VERIFICATION DETAILS

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### 9.1. TEST EXECUTION OVERVIEW

All changes have been reviewed and tests have been executed to ensure they are working. A total of 17 manual tests and 41 automated tests have been executed.

The traceability has been reviewed to make sure all changes have been implemented, reviewed and tested as planned.

#### 9.1.1. Tested Release Builds

The tests were executed using 5 builds.

Build	Test Cycle	Number of Tests	Passed Tests
2.5.5.0-5941003	First Cycle	17	17
2.5.5.0-5941003	Automated Verification Tests	41	41

#### 9.1.2. Testers

Manual tests were executed by 1 tester:

Tester	Number of Executed Tests
ignas	17

Results of automated tests were reviewed by Ignas.

#### 9.1.3. Test Environment

All tests were executed with the latest version of the used browser

Browser / OS	Number of Tests
Windows 11 / Brave Browser 1.87.188 (Official Build) (64-bit)	58

#### 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

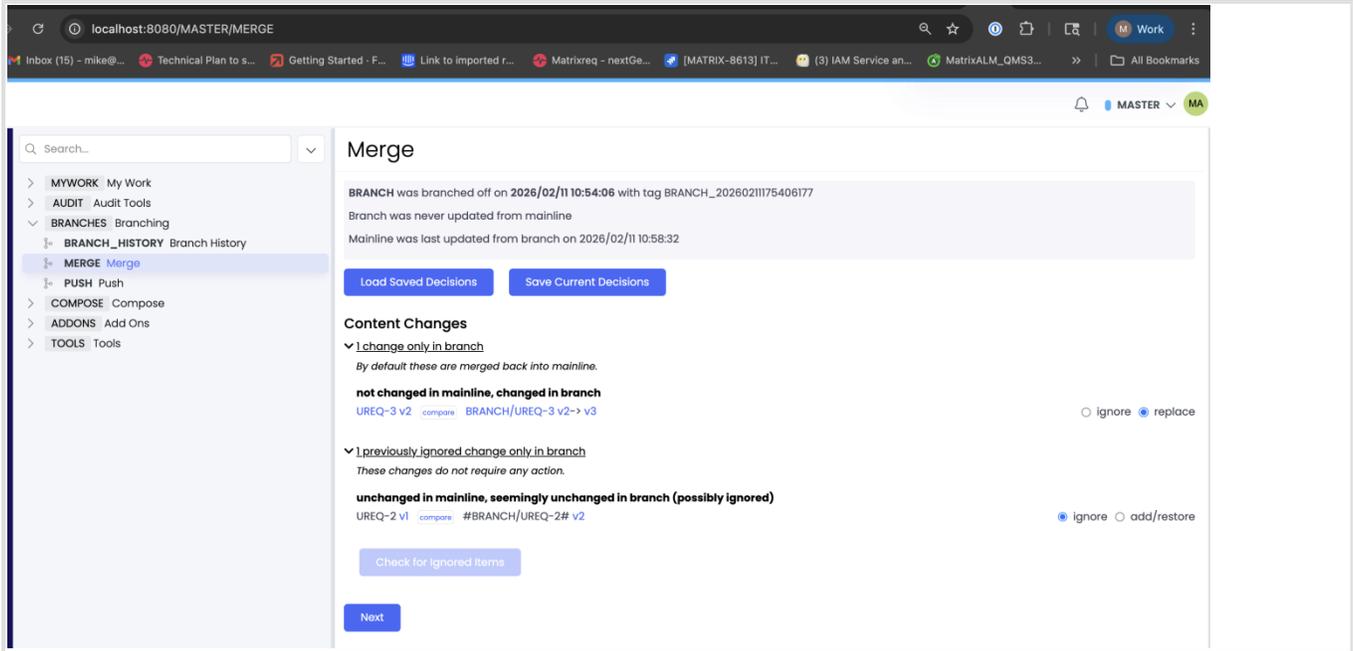
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n/a - see above

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## 11. APPENDIX: CHANGES

<b>FEAT-1213 Improved Merge Tracking: Ignored changes are now tracked across multiple merge operations.</b>	<b>Author:</b> Nicolas Von Bandel	<b>Date:</b> 2026/02/20 12:45:07	<b>Revision:</b> 15
✓ CODE done ✓ IFU done ✓ FDR done ✓ DHF done			
<i>Product Changes / Release 2 / Release 2.5 / 2.5.5 / Improvements / Improved Merge Tracking: Ignored changes are now tracked across multiple merge operations.</i>			
<b>Downlinks:</b> <ul style="list-style-type: none"> <li>• <a href="#">RISK-31 Branch &amp; Merge Module - User ignores and forgets changes of items</a></li> <li>• <a href="#">SPEC-278 Merging / Pushing Operation</a></li> <li>• <a href="#">TC-625 Content Push: Ignored items</a></li> <li>• <a href="#">TC-626 Content Merge: Ignored items</a></li> </ul>			
<b>Short</b>			
<p>If an edit to a item is ignored during a merge or a push, then the next time the merge or push is performed, the item will not be mentioned. It should be, because the item is still different between main and branch.</p>			
<b>Description</b>			
<p>Any ignored changes to items during merges or pushes will be forgotten in subsequent merges or pushes. Therefore, it could happen that multiple such changes accumulate. The solution is to offer a new button during the merge process which allows the user to search for potentially forgotten changes to items, and include those changes in the merge or push. The user has the option to continue to ignore each such change, as well. The user can also do a 3-way compare, as with other scheduled changes for the merge or push.</p> <p>Here is an example of the UI when an ignored item was found by pressing the new "Check for ignored items" button:</p>			



<b>FEAT-1216</b> Faster Report Generation: Improved performance when generating reports with Smart Links in large projects.	<b>Author:</b> Nicolas Von Bandel	<b>Date:</b> 2026/02/20 12:33:33	<b>Revision:</b> 13
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✓ CODE done ✓ IFU done ✓ FDR done ✓ DHF done

*Product Changes / Release 2 / Release 2.5 / 2.5.5 / Bug Fixes / Faster Report Generation: Improved performance when generating reports with Smart Links in large projects.*

**Downlinks:**

- **TC-627** SmartLinks in RichText field

**Short**

When generating a report for a project with a large number of categories and items/documents containing smart links, significant performance issues were encountered.

**Description**

Reverted to a character-based parsing algorithm that uses a precomputed list of category labels to detect smart links within rich text fields.

The new algorithm allows to decrease document generation time down from 100 seconds to 5 seconds on a instance with 14 categories.

<b>Author:</b>	<b>Date:</b>	<b>Revision:</b>
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<b>FEAT-1214 Complete Item History: Audit trails are preserved when moving items between folders and categories.</b> ✓ CODE done ✓ IFU done ✓ FDR done ✓ DHF done <i>Product Changes / Release 2 / Release 2.5 / 2.5.5 / Bug Fixes / Complete Item History: Audit trails are preserved when moving items between folders and categories.</i> <b>Downlinks:</b> <ul style="list-style-type: none"> <li><b>TC-628 MoveItems create techaudit entry</b></li> </ul> <b>Short</b>  Fixed a major bug where moving items failed to create proper audit trail entries, causing item field values to disappear from history during clone/export/branch operations.	<b>Author:</b> Nicolas Von Bandel  <b>Date:</b> 2026/02/20 11:03:46  <b>Revision:</b> 7
<b>Description</b>  Fixed a bug in MoveItemsMethod.moveOneItem where moving items between folders or categories did not create the required tech_audit table entries for field values. While the move operation appeared to work correctly in the UI, the missing audit entries caused item field values to be lost from the item history when performing clone with history, export, or branch operations.	

<b>FEAT-1215 Enhanced Smart Link Rendering: Smart Links now render correctly within HTML links in PDFs.</b> ✓ CODE done ✓ IFU done ✓ FDR done ✓ DHF done <i>Product Changes / Release 2 / Release 2.5 / 2.5.5 / Bug Fixes / Enhanced Smart Link Rendering: Smart Links now render correctly within HTML links in PDFs.</i> <b>Downlinks:</b> <ul style="list-style-type: none"> <li><b>TC-627 SmartLinks in RichText field</b></li> </ul> <b>Short</b>  When creating a rich text field containing an HTML link whose visible text is an item reference (for example, <b>VA-1</b> ), and generating Smart Links based on that item reference, the Smart Links are not rendered as hyperlinks in the PDF. For example, the following references are not displayed as links in the generated PDF: <pre>&lt;a href='test'&gt;VA-1&lt;/a&gt;</pre> VA-1! VA-1 VA-1+ VA-2	<b>Author:</b> Nicolas Von Bandel  <b>Date:</b> 2026/02/20 11:05:12  <b>Revision:</b> 9
<b>Description</b>	

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A new algorithm has been implemented to fix a bug where the value **VA-1** was always detected as being inside an HTML link whenever an HTML link containing **VA-1** was present.

## 12. APPENDIX: TEST RESULTS

Item	Tested By	Execution Date	Last Modification	Test Result
<b>FEAT-1213 Improved Merge Tracking: Ignored changes are now tracked across multiple merge operations.</b>	<b>XTC-6789 Delete and undelete of branch (TC-200)</b>	2026/02/18	2026/02/18 12:39:40	passed
	<b>XTC-6791 Content Merge - Fields (TC-214)</b>	2026/02/18	2026/02/18 15:28:28	passed
	<b>XTC-6792 Content Merge - Scenarios (TC-208)</b>	2026/02/19	2026/02/19 14:59:30	passed
	<b>XTC-6793 Folder Merging (TC-209)</b>	2026/02/18	2026/02/18 20:59:04	passed
	<b>XTC-6794 Test Hierarchical Merge (TC-210)</b>	2026/02/18	2026/02/18 20:54:57	passed
	<b>XTC-6795 Test Link Changes (TC-211)</b>	2026/02/18	2026/02/18 20:51:11	passed
	<b>XTC-6796 Strict Merging Test (TC-212)</b>	2026/02/18	2026/02/18 20:22:20	passed
	<b>XTC-6797 Diff and Item View in Merge Screen (TC-213)</b>	2026/02/18	2026/02/18 20:15:33	passed
	<b>XTC-6798 Folder Pushing (TC-312)</b>	2026/02/18	2026/02/18 20:12:22	passed
	<b>XTC-6800 Content Push: Ignored items (TC-625)</b>	2026/02/18	2026/02/18 15:53:47	passed
	<b>XTC-6801 Content Merge: Ignored items (TC-626)</b>	2026/02/18	2026/02/18 16:08:59	passed

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Item	Tested By	Execution Date	Last Modification	Test Result
<b>FEAT-1216</b> Faster Report Generation: Improved performance when generating reports with Smart Links in large projects.	<b>XTC-6802</b> SmartLinks in RichText field (TC-627)	2026/02/18	2026/02/18 16:29:25	passed
<b>FEAT-1214</b> Complete Item History: Audit trails are preserved when moving items between folders and categories.	<b>XTC-6803</b> MoveItems create techaudit entry (TC-628)	2026/02/18	2026/02/18 16:37:02	passed
<b>FEAT-1215</b> Enhanced Smart Link Rendering: Smart Links now render correctly within HTML links in PDFs.	<b>XTC-6802</b> SmartLinks in RichText field (TC-627)	2026/02/18	2026/02/18 16:29:25	passed

### 13. APPENDIX: ADDITIONAL REGRESSION TESTS

Executed Test Case	Execution Date	Last Modification	Test Result
<b>XTC-6787</b> Smoke Test (UC-1)	2026/02/19	2026/02/19 15:21:30	passed
<b>XTC-6788</b> Merging and Branching (UC-38)	2026/02/18	2026/02/18 11:49:09	passed
<b>XTC-6790</b> Branch Master Test (TC-201)	2026/02/18	2026/02/18 15:23:13	passed
<b>XTC-6799</b> Compose: Branching (TC-374)	2026/02/18	2026/02/18 20:06:12	passed
<b>XTC-6804</b> Folder Merging (ATC-33)	2026/02/19	2026/02/19 19:03:24	passed
<b>XTC-6805</b> Compose v2 (ATC-3)	2026/02/19	2026/02/19 18:59:04	passed
<b>XTC-6806</b> Compose Update (ATC-4)	2026/02/19	2026/02/19 18:59:16	passed
<b>XTC-6807</b> Compose License Check (ATC-8)	2026/02/19	2026/02/19 18:59:24	passed
<b>XTC-6808</b> Copy Categories from one project to another (ATC-52)	2026/02/19	2026/02/19 18:59:32	passed
<b>XTC-6809</b> Verify Restricted Access to User Details (ATC-11)	2026/02/19	2026/02/19 18:59:42	passed

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Executed Test Case	Execution Date	Last Modification	Test Result
<a href="#">XTC-6811</a> Password Strength settings (ATC-10)	2026/02/19	2026/02/19 18:59:58	passed
<a href="#">XTC-6812</a> Password reset duration (ATC-45)	2026/02/19	2026/02/19 19:00:06	passed
<a href="#">XTC-6813</a> Generate multiple SIGN (ATC-15)	2026/02/19	2026/02/19 19:10:13	passed
<a href="#">XTC-6814</a> Converting TC to XTC Dead Links (ATC-18)	2026/02/19	2026/02/19 19:00:21	passed
<a href="#">XTC-6815</a> Help Button (ATC-20)	2026/02/19	2026/02/19 19:02:45	passed
<a href="#">XTC-6816</a> Project Navigation (ATC-21)	2026/02/19	2026/02/19 19:02:58	passed
<a href="#">XTC-6817</a> Delete categories in admin (ATC-22)	2026/02/19	2026/02/19 19:03:07	passed
<a href="#">XTC-6818</a> Project Renaming (ATC-24)	2026/02/19	2026/02/19 19:03:17	passed
<a href="#">XTC-6819</a> Search text (ATC-25)	2026/02/19	2026/02/19 19:03:31	passed
<a href="#">XTC-6820</a> XTC creation filter inheritance (ATC-26)	2026/02/19	2026/02/19 19:03:38	passed
<a href="#">XTC-6821</a> Out of Date Indication (ATC-27)	2026/02/19	2026/02/19 19:03:46	passed
<a href="#">XTC-6823</a> Project Groups (ATC-30)	2026/02/19	2026/02/19 19:04:09	passed
<a href="#">XTC-6824</a> MRQL: Review search (ATC-31)	2026/02/19	2026/02/19 19:04:16	passed
<a href="#">XTC-6826</a> Downlinks in Locked Items (ATC-37)	2026/02/19	2026/02/19 19:04:24	passed
<a href="#">XTC-6827</a> Copied Category ID and Name (ATC-38)	2026/02/19	2026/02/19 19:04:31	passed
<a href="#">XTC-6828</a> Re-indexing of items after configuration change (ATC-39)	2026/02/19	2026/02/19 19:04:39	passed
<a href="#">XTC-6829</a> Published Item Order (ATC-42)	2026/02/19	2026/02/19 19:04:46	passed
<a href="#">XTC-6830</a> VisibleOption hides field in folder (ATC-43)	2026/02/19	2026/02/19 19:04:52	passed

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<b>XTC-6831</b> Required fields (ATC-44)	2026/02/19	2026/02/19 19:05:00	passed
<b>XTC-6832</b> Search Tabbing (ATC-46)	2026/02/19	2026/02/19 19:06:45	passed
<b>XTC-6833</b> Search List Limit (ATC-47)	2026/02/19	2026/02/19 19:06:53	passed
<b>XTC-6834</b> Risk Factor Options (ATC-48)	2026/02/19	2026/02/19 19:07:00	passed
<b>XTC-6836</b> Automatic XTC results (ATC-50)	2026/02/19	2026/02/19 19:07:29	passed
<b>XTC-6837</b> Field Default Values (ATC-51)	2026/02/19	2026/02/19 19:07:37	passed
<b>XTC-6838</b> Autosave Hint (ATC-54)	2026/02/19	2026/02/19 19:07:45	passed
<b>XTC-6839</b> Detailed Merge Test (ATC-16)	2026/02/19	2026/02/19 19:08:03	passed
<b>XTC-6840</b> Last Child Searches (ATC-17)	2026/02/19	2026/02/19 19:08:12	passed
<b>XTC-6841</b> Uplink, Downlink and Folder Search (ATC-9)	2026/02/19	2026/02/19 19:08:23	passed
<b>XTC-6842</b> MRQL Test Searches (ATC-28)	2026/02/19	2026/02/19 19:08:31	passed
<b>XTC-6843</b> MRQL risk search (ATC-35)	2026/02/19	2026/02/19 19:08:39	passed
<b>XTC-6844</b> Author and Editor Searches (ATC-34)	2026/02/19	2026/02/19 19:08:46	passed
<b>XTC-6845</b> Dropdown and Label Searches (ATC-19)	2026/02/19	2026/02/19 19:08:54	passed
<b>XTC-6846</b> Categories Ending in F Searching (ATC-23)	2026/02/19	2026/02/19 19:09:02	passed
<b>XTC-6847</b> Calendar of Changes (ATC-14)	2026/02/19	2026/02/19 19:09:10	passed
<b>XTC-6848</b> Imported Published QMS lastPublication Setting (ATC-64)	2026/02/19	2026/02/19 19:09:18	passed

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