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## RELEASE NOTES 2.5.2

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### SOFTWARE IDENTIFICATION

MatrixALM 2.5.2.0-75ff6b3 and MatrixQMS 2.5.2.0-75ff6b3

This is a patch release for version 2.5.0.0-421855d and includes changes from 2.5.0.1-e434c49 and 2.5.1.0-a0b27de.

### CHANGES OVERVIEW

Change_ID	Title	Description
<a href="#">FEAT-1150</a>	Report Generation Performance Improvement	Report generation takes too long on projects with deep traceability links between items because of a quirk in the implementation of our report generator. We're reimplemented this to vastly reduce the size of intermediate output files and (often) dramatically reduce the amount of time it takes to generate a report.
<a href="#">FEAT-1151</a>	Improvement management of database ResultSet objects	The Clouds server makes many database queries as it performs an export. These queries consume resources until they are explicitly closed. An export with history is especially resource intensive. A customer with a large project experienced a server crash trying to perform an export with history.
<a href="#">FEAT-1152</a>	Yellow text mark removed after moving to next published item	Yellow text mark removed after moving to next published item.
<a href="#">FEAT-1153</a>	Risk analysis may not be shown in a DOC if the risk config is missing a key	<p>The RiskStats control will fail to display in a "Risk Analysis" DOC field if there is no "risk_config" project setting. It should be okay that we don't have this setting, for the case where the risk_config is being configured from the field instead of the global setting. With a minor adjustment, this RiskStats control could be made to accept that there is a null/empty risk_config setting.</p> <p>Before, the user had to workaround this issue by creating an empty risk_config setting.</p>

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## CHANGE DETAILS

### F-FEAT-184 Improvements

#### FEAT-1150 Report Generation Performance Improvement

✓ CODE done ✓ IFU done ✓ FDR done ✓ DHF done

Report generation takes too long on projects with deep traceability links between items because of a quirk in the implementation of our report generator. We've reimplemented this to vastly reduce the size of intermediate output files and (often) dramatically reduce the amount of time it takes to generate a report.

We have identified both files size / generation performance are especially bad when there is a need of traceability matrix because it generates an intermediate file (j<job\_id>\_filter.xml) which contains nested downlinks in multiple levels and duplicated many times.

For reports that don't use a custom XSLT transformation file, we've reimplemented the work in Java, such that there is no need to generate the large intermediate filter files.

#### FEAT-1151 Improvement management of database ResultSet objects

✓ CODE done ✓ IFU done ✓ FDR done ✓ DHF done

The Clouds server makes many database queries as it performs an export. These queries consume resources until they are explicitly closed. An export with history is especially resource intensive. A customer with a large project experienced a server crash trying to perform an export with history.

Rather than waiting until the end of the export process to clean up all the database query objects, we can clean them up right after we've finished with them. This saves on memory, and allows the export to succeed. The report generation process will also benefit from this improved use of resources.

### F-FEAT-185 Bug fixes


#### FEAT-1152 Yellow text mark removed after moving to next published item

✓ CODE done ✓ IFU done ✓ FDR done ✓ DHF done

Yellow text mark removed after moving to next published item.

Yellow text mark for searched text is no longer removed after moving to next published item in live QMS.

#### FEAT-1153 Risk analysis may not be shown in a DOC if the risk config is missing a key

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✓ CODE done ✓ IFU done ✓ FDR done ✓ DHF done

The RiskStats control will fail to display in a "Risk Analysis" DOC field if there is no "risk\_config" project setting. It should be okay that we don't have this setting, for the case where the risk\_config is being configured from the field instead of the global setting. With a minor adjustment, this RiskStats control could be made to accept that there is a null/empty risk\_config setting.


Before, the user had to workaround this issue by creating an empty risk\_config setting.

The software now tolerates an empty/non-existent risk\_config setting.

## KNOWN ISSUES

BUG-93 & escaping test (TC-305) / Step 11	Author:	Date:	Revision:
	Olena Motrichuk	2025/03/06 16:16:25	3
<i>Bugs / Release 2.5 / Known in 2.5.2 / &amp; escaping test (TC-305) / Step 11</i>			
<b>Description</b>			
Files names should contain <&> instead of ltampgt			
<b>Workaround</b>			
Rename downloaded file.			
<b>Fix Version</b>			
To be decided			


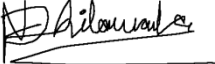
BUG-94 Table of content is broken if item contain lists inside rich text fields	Author:	Date:	Revision:
	Olena Motrichuk	2025/03/06 16:57:17	3
<i>Bugs / Release 2.5 / Known in 2.5.2 / Table of content is broken if item contain lists inside rich text fields</i>			
<b>Description</b>			
Table of content is broken if item contain lists inside rich text fields.			
<b>Workaround</b>			
n/a			

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<b>Fix Version</b>  To be decided
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<b>BUG-95 Custom Table Template Sections Do Not Render</b>	<b>Author:</b>	<b>Date:</b>	<b>Revision:</b>
	Ignas Žakaitis	2025/03/07 08:59:41	1
<i>Bugs / Release 2.5 / Known in 2.5.2 / Custom Table Template Sections Do Not Render</i>			
<b>Description</b>  If user tries to use custom table template defined in DOC settings of admin config, then it does not render when added to a DOC			
<b>Workaround</b>  Instead of custom table template defined in admin, define custom tables only using Custom Table dhf field type:  <div> Custom Table </div>			
<b>Fix Version</b>  To be decided			

## SIGNATURES

Signature Meaning	Name	Title	Date	Signature
Author	Olena Motrichuk	Product Owner	2025/03/10 16:47:20	<b>sign-p14-i189222-b20250310154720795</b>
Reviewer	Ignas Žakaitis	QA Lead	2025/03/10 16:17:38	 <b>sign-p14-i189222-b20250310151738488</b>
Approver	Abbas Dhilawala	Group CTO	2025/03/10 17:57:01	 <b>sign-p14-i189222-b20250310165701954</b>

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

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