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|  matrix requirements | <h2>Release Notes 2.5.4</h2> | |
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RELEASE NOTES 2.5.4

SOFTWARE IDENTIFICATION

MatrixALM 2.5.4.0-7e44103 and MatrixQMS 2.5.4.0-7e44103

This is a patch release for version 2.5.0.0-421855d and includes changes from 2.5.0.1-e434c49, 2.5.1.0-a0b27de, 2.5.2.0-75ff6b3, 2.5.2.1-76b37c3 and 2.5.3.0-61c2ed8.

CHANGES OVERVIEW

| Change_ID | Title | Description |
|---------------------------|--|--|
| FEAT-1187 | Matrix Server Plugins don't expose Compose Include items correctly | Customers describe creating Jira tickets that point to Compose Include items. But a) the item is not shown correctly, it should be PROJ-3434-COMMON but it shows as PROJ-3434, and b) if you click on the item you get a server error that the item doesn't exist. |
| FEAT-1188 | Unable to link a Jira work item to multiple Matrix items in different projects | It was not possible to link a Jira ticket to multiple Matrix items in different projects, getting a Database constraint violation error. |
| FEAT-1189 | Jira plugin: background update was failing because of misconfiguration | A misconfiguration in a Matrix project's Jira extension could make the background update feature to fail. |
| FEAT-1190 | Jira plugin search failed because of Atlassian API deprecation | Jira API search we used in Matrix was deprecated, making all searches actions to fail. |
| FEAT-1191 | Improve table performance in a projects with big number of macros | Items with tables were taking a lot of time to load in a project with big number of macros. |

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| Change_ID | Title | Description |
|------------------|--|---|
| FEAT-1192 | Incorrect rendering of the date table cells | Date value is not rendered in the date table cell with certain date formatting. |
| FEAT-1197 | Database corruption: multiple item versions with same version number | Due to a missing uniqueness constraint in the database, it is possible to create multiple item versions with the same version number. This shows up in the UI as the same item at multiple places in the tree, or as multiple versions with the same version number in the history dialog of an item. |
| FEAT-1198 | Publications removed when a project is cloned. | Fixed an issue where cloning a QMS project incorrectly removed publications from both the source and target projects. |
| FEAT-1199 | Jira add-on: the status and the title does not seem to get updated anymore. | Fixed a JQL search optimization issue in the JIRA plugin where timezone mismatches prevented status and title updates in instances using timezones west of Greenwich. |
| FEAT-1200 | Inconsistent versioning vs. revision indication in published QMS | Fixed a product defect in ISO 13485 implementation where internal revisions were not being added and document quality version column titles were missing, resulting in non-compliant documentation. |
| FEAT-1201 | Text content in mitigation table columns is lost after save when global risk reduction flag is enabled | Fixed a critical data loss issue where text and dropdown inputs in mitigation tables were being discarded when the post-reduction configuration flag was enabled. |
| FEAT-1202 | Report generation fails when document | If you generate a document that contains a field of type 'StepList' and this step list has a column with a user id being NULL, MOCreator will crash and report generation will fail. |

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| Change_ID | Title | Description |
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| | contain StepList with NULL user | |
| FEAT-1203 | Report generation fails when trying to render a document containing a dropdown with NULL id column | When you create a dropdown in the admin panel you need to enter and ID and a value. If you omit the ID it will allow you to use the dropdown in document however when MOCreator tries to generate the report and parse this dropdown, it will fail. |
| FEAT-1204 | Custom Table Templates do not render | <p>If user define Custom Table Templates in project settings -> DOC configuration -> advanced in the admin panel using the advance json configuration.</p> <pre> "customTables": [{ "name": "Known Issues", "id": "KnownIssues" }, "KnownIssues": { "columns": [{ "name": "#ID", "field": "col0", "columnType": "type0", "pos": 0 }, { "name": "Issue (description)", "field": "col1", "columnType": "type0", "pos": 1 }, { "name": "Affects Safety", "field": "col2", "columnType": "custOption", "pos": 2 }] }] </pre> |

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| Change_ID | Title | Description |
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| | | <p>This custom table is ignored by the MOCreator and is not rendered in the report.</p> |
| FEAT-1207 | When you search item using a NON MRQL queries, labels are not included in the response. | <p>When calling the 'needle' endpoint, item labels are not included when using simple search.</p> <pre>curl --location --request GET 'http://localhost:8080/rest/1/ALMSandbox/needle' \ --header 'Content-Type: application/json' \ --header 'Authorization:' \ --header 'Cookie: JSESSIONID=XXXX' \ --data '{"search":"f", "labels": 1}'</pre> <p>However if you use this request, you will get the labels</p> <pre>curl --location --request GET 'http://localhost:8080/rest/1/ALMSandbox/needle' \ --header 'Content-Type: application/json' \ --header 'Authorization:' \ --header 'Cookie: JSESSIONID=XXXX' \ --data '{"search":"mrql:category != \"T\"", "labels": 1}'</pre> <p>This is caused by a bug in the code when searching with a NON MRQL query, the labels are fetched but not populated to the 'DTO'</p> |
| FEAT-1194 | Incorrect mention of legend colors in the traceability settings | <p>In traceability view, the legend says : 'Blue- black'. It should be replaced by "blue"</p> |
| FEAT-1205 | Improve report generation jobs system | <p>Report generation is a very expensive task both in term of CPU and memory. Therefor when a lot of report generation are launched at the same time, it sometimes consume all the memory available and caused issue like instances not being reachable anymore. Jobs are launched in a thread and we don't limit the number of threads that run in parallel in tomcat.</p> <p>To solve this usually require a tomcat restart in order to free all the resources.</p> <p>What we want to do is to introduce a better way to handle report generation job in order to avoid having too much job running in parallel.</p> <p>The idea is to have a default value of max 3 job running and other job are queued until one of the running job is done.</p> |

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| Change_ID | Title | Description |
|------------------|---|---|
| FEAT-1208 | Report generation trace table with several levels of indirection are empty | In MOCreator when trying to render a trace table with several levels of indirection, the result is empty. For example SPEC-REQ-HLREQ-up. |
| FEAT-1209 | Report generation column definition pointing to item field containing a '/' render empty value. | In a list of item with fields when using custom column and pointing to a item field that contains a '/', it render an empty value and not the field value. If you have an item that has a field with label 'Description/withslash' and you try to render it using these column definition 'item,labels,down,name Description/withslash' it will fails. |
| FEAT-1193 | New logo on login screen | Update the logo and right panel background on Matrix Req app login screen. |

CHANGE DETAILS

F-FEAT-201 Bug Fixes

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|--|
| FEAT-1187 Matrix Server Plugins don't expose Compose Include items correctly |
| ✓ CODE done ✓ IFU done ✓ FDR done ✓ DHF done |
| Customers describe creating Jira tickets that point to Compose Include items. But a) the item is not shown correctly, it should be PROJ-3434-COMMON but it shows as PROJ-3434, and b) if you click on the item you get a server error that the item doesn't exist. |
| The Matrix items are shown correctly and you can click on them to visit them. |

FEAT-1188 Unable to link a Jira work item to multiple Matrix items in different projects

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| ✓ CODE done ✓ IFU done ✓ FDR done ✓ DHF done |
| It was not possible to link a Jira ticket to multiple Matrix items in different projects, getting a Database constraint violation error. |
| It's now possible to link a Jira issue to multiple Matrix items in different projects. |

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FEAT-1189 Jira plugin: background update was failing because of misconfiguration

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

A misconfiguration in a Matrix project's Jira extension could make the background update feature to fail.

This background update is intended to regularly get the status / title of all linked Jira issues. To perform this action, the Jira plugin rely on each Matrix project's extension configuration. Because of the current implementation, if the first one is wrong, all the background update failed.

On the Matrix ALM/QMS connector side, one Matrix instance could only be linked to one single Jira instance. So, there is no need to get each project's config. This global config could be loaded when the plugin starts and then be shared across all projects.

FEAT-1190 Jira plugin search failed because of Atlassian API deprecation

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

Jira API search we used in Matrix was deprecated, making all searches actions to fail.

The change was to use to new way to requesting the Search Jira API:

<https://developer.atlassian.com/cloud/jira/platform/rest/v2/api-group-issue-search/#api-rest-api-2-search-jql-post>

FEAT-1191 Improve table performance in a projects with big number of macros

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

Items with tables were taking a lot of time to load in a project with big number of macros.

Improve the performance by caching macros replacement calculations.

FEAT-1192 Incorrect rendering of the date table cells

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

Date value is not rendered in the date table cell with certain date formatting.

Render dates as string without trying to format them according to the user's formatting.

FEAT-1197 Database corruption: multiple item versions with same version number

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

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Due to a missing uniqueness constraint in the database, it is possible to create multiple item versions with the same version number. This shows up in the UI as the same item at multiple places in the tree, or as multiple versions with the same version number in the history dialog of an item.

With this fix, the database gets a uniqueness constraint so that this kind of database corruption can no longer happen.

How did the instances of corruption happen in the first place?

From several sources. If a customer gets tired of waiting and re-submits a request to the server, it is possible for the issue to happen. We saw this quite often on the "undelete" feature. We also saw it on "move" of an item. The constraint will prevent this from happening any more.

FEAT-1198 Publications removed when a project is cloned.

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

Fixed an issue where cloning a QMS project incorrectly removed publications from both the source and target projects.

Fixed an issue in the project cloning process where publications were being unexpectedly removed from both the source and target QMS projects. Publications can now be safely cloned without data loss, though previously affected projects can have their publications recovered if needed.

FEAT-1199 Jira add-on: the status and the title does not seem to get updated anymore.

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

Fixed a JQL search optimization issue in the JIRA plugin where timezone mismatches prevented status and title updates in instances using timezones west of Greenwich.

Fixed a timezone mismatch bug in the JIRA plugin's JQL search optimization that caused status and title updates to fail. The issue occurred because Matrix uses UTC dates for the `lastCheck` parameter while JIRA uses localized dates based on server/user timezone settings. This resulted in status and title updates never being reflected for instances configured in timezones west of Greenwich (negative UTC offset) unless the instance was restarted. The optimization now correctly handles timezone conversions to ensure consistent update behavior across all timezone configurations.

FEAT-1200 Inconsistent versioning vs. revision indication in published QMS

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

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Fixed a product defect in ISO 13485 implementation where internal revisions were not being added and document quality version column titles were missing, resulting in non-compliant documentation.

Fixed an inappropriate UI specification leading to a misleading implementation of ISO 13485. The issue prevented the proper addition of internal revisions and failed to display the document quality version column titles (e.g., "version C" where "version" is the customer-configured name). This has been corrected to ensure proper ISO 13485 compliance and accurate document versioning tracking.

FEAT-1201 Text content in mitigation table columns is lost after save when global risk reduction flag is enabled

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

Fixed a critical data loss issue where text and dropdown inputs in mitigation tables were being discarded when the post-reduction configuration flag was enabled.

Fixed a critical data loss bug that occurred when the "define reductions for all risk controls combined instead of per risk control" configuration flag was enabled. Users were unable to persist text inputs and dropdown selections in mitigation table columns—all content entered in these fields was silently discarded upon save with no error message or warning. This resulted in significant data loss that could not be recovered from item history before this fix.

The issue has been resolved to ensure that all mitigation table data is properly saved regardless of the risk reduction configuration setting.

FEAT-1202 Report generation fails when document contain StepList with NULL user

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

If you generate a document that contains a field of type 'StepList' and this step list has a column with a user id being NULL, MOCreator will crash and report generation will fail.

We now check for null when rendering user names in step list.

FEAT-1203 Report generation fails when trying to render a document containing a dropdown with NULL id column

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

When you create a dropdown in the admin panel you need to enter and ID and a value. If you omit the ID it will allow you to use the dropdown in document however when MOCreator tries to generate the report and parse this dropdown, it will fail.



We now check for null before comparing dropdown id.

FEAT-1204 Custom Table Templates do not render**✓ CODE done ✓ IFU done ✓ FDR done ✓ DHF done**

If user define Custom Table Templates in project settings -> DOC configuration -> advanced in the admin panel using the advance json configuration.

```
"customTables": [
  {
    "name": "Known Issues",
    "id": "KnownIssues"
  },
  "KnownIssues": {
    "columns": [
      {
        "name": "#ID",
        "field": "col0",
        "columnType": "type0",
        "pos": 0
      },
      {
        "name": "Issue (description)",
        "field": "col1",
        "columnType": "type0",
        "pos": 1
      },
      {
        "name": "Affects Safety",
        "field": "col2",
        "columnType": "custOption",
        "pos": 2
      }
    ]
  }
}
```

This custom table is ignored by the MOCreator and is not rendered in the report.

In MOCreator when getting a custom table name as field_type we look for the name in the project settings. If the name match any custom table, we render the table like a genericTable, if not we don't render the table.

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FEAT-1207 When you search item using a NON MRQL queries, labels are not included in the response.

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

When calling the 'needle' endpoint, item labels are not included when using simple search.

```
curl --location --request GET
'http://localhost:8080/rest/1/ALMSandbox/needle' \
--header 'Content-Type: application/json' \
--header 'Authorization: .....' \
--header 'Cookie: JSESSIONID=XXXX' \
--data '{"search":"f", "labels": 1}'
```

However if you use this request, you will get the labels

```
curl --location --request GET
'http://localhost:8080/rest/1/ALMSandbox/needle' \
--header 'Content-Type: application/json' \
--header 'Authorization: .....' \
--header 'Cookie: JSESSIONID=XXXX' \
--data '{"search":"mrql:category != \"T\"", "labels": 1}'
```

This is caused by a bug in the code when searching with a NON MRQL query, the labels are fetched but not populated to the 'DTO'

We now populate the labels in the DTO in the database 'ItemRepository' class.

Item response now include labels

```
{
  "itemOrFolderRef": "VAL-1-v3",
  "title": "Patient validation",
  "project": "ALMSandbox",
  "labels": "(test)",
  "lastModDate": "2025/07/31 14:10:04",
  "creationDate": "2021/05/05 15:16:15"
},
```

FEAT-1194 Incorrect mention of legend colors in the traceability settings

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

In traceability view, the legend says : 'Blue- black'. It should be replaced by "blue"

In 2.5.4 the legend says "blue".

FEAT-1205 Improve report generation jobs system

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

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

Report generation is a very expensive task both in term of CPU and memory. Therefor when a lot of report generation are launched at the same time, it sometimes consume all the memory available and caused issue like instances not being reachable anymore. Jobs are launched in a thread and we don't limit the number of threads that run in parallel in tomcat.

To solve this usually require a tomcat restart in order to free all the resources.

What we want to do is to introduce a better way to handle report generation job in order to avoid having too much job running in parallel.

The idea is to have a default value of max 3 job running and other job are queued until one of the running job is done.

Implement a job queueing system. When you request a report generation, the request is put in a queue and you have worker picking up work from that queue. By default the number of worker is limited to 3 and the queue size is 15.

Number of worker and queue size are configurable using matrix configuration file.

- report_worker_number
- report_queue_size

We also have a timeout for a job which kill the job if it does not finish after a certain amount of time.

Default value is 60 minutes

- report_job_timeout_in_minute

FEAT-1208 Report generation trace table with several levels of indirection are empty

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

In MOCreator when trying to render a trace table with several levels of indirection, the result is empty. For example SPEC-REQ-HLREQ-up.

Change the code logic to start from 'from' items and go through the intermediary categories then filter result based on the 'to' items selected.

For example if you select a from item 'TC-1', with column definition 'SPEC-REQ-HLREQ-up' it will go from TC-1 then fetch all SPECs pointing to that TC, then fetch all REQ pointing to all these SPECs, then fetch all HLREQs pointing to these REQS and then filter the HLREQs found using the 'to' items.

FEAT-1209 Report generation column definition pointing to item field containing a '/' render empty value.

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

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In a list of item with fields when using custom column and pointing to a item field that contains a '/', it render an empty value and not the field value.

If you have an item that has a field with label 'Description/withslash' and you try to render it using these column definition 'item,labels,down,name|Description/withslash' it will fails.

When rendering item_field type of column, ignore '/' and do not interpret them has meta character but just has normal character that are part of field name.

FEAT-1193 New logo on login screen

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

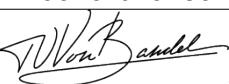
Update the logo and right panel background on Matrix Req app login screen.

The new Matrix Req product logo is displayed on the login screen according to the company 2025 branding guidelines.

KNOWN ISSUES

not applicable

SIGNATURES

| Signature Meaning | Name | Title | Date | Signature |
|-------------------|--------------------|---------------|---------------------|--|
| Author | Olena Motrichuk | Product Owner | 2026/01/08 15:26:55 | sign-p14-i220020-b20260108142655136 |
| Reviewer | Ignas Žakaitis | QA Lead | 2026/01/08 15:28:30 |  sign-p14-i220020-b20260108142830227 |
| Approver | Abbas Dhilawala | Group CTO | 2026/01/08 15:46:56 |  sign-p14-i220020-b20260108144656490 |
| Approver | Nicolas Von Bandel | CPO | 2026/01/08 15:28:52 |  sign-p14-i220020-b20260108142852630 |