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1. AUDIT TRAIL

Version	Change Description	
Version	2.3.6 is an update of the 2.3.5 release with a few bug fixes / improvements and the	
2.3.6	compose feature	

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3. SIGNATURES

Signature Meaning	Name	Role	Date	Signature
Author	Wolfgang Huber	СТО		
Approver	Yves Berquin	COO		



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4. PURPOSE

Documentation of verification and validation results of Matrix Requirements Release 2.3.7

5. SCOPE

This release with number 2.3.7 is a minor update of the 2.3.5 release. It contains the changes listed in the "Appendix: Changes" below.

6. REFERENCES AND APPLICABLE DOCUMENTS

- SIGN-342 Verification and Validation Plan, Ver. D
- SIGN-344 Software Development Plan, Ver.G
- SIGN-416 Project Kickoff Form
- SIGN-417 Risk Analysis
- SIGN-418 Verification and Validation Report, Ver 2.3 Update 6
- SIGN-422 Release Notes 2.3.6.1161-630c848
- SIGN-423 Release 2.3.6.1161-630c848 FDR / Release Form

7. RESPONSIBILITIES

Name	Responsibility
Aloïs Paulus	coding, code reviews
François Chasseur	coding, code reviews
Ignas Žakaitis	creating tests, testing
Rytis Blinkovas	test automation
Michael Stanton	code reviews
Tilman Schlenker	coding, code reviews
Wolfgang Huber	coding, creating tests, testing
Yves Berquin	coding, creating tests, testing



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8. VERIFICATION AND VALIDATION SUMMARY

8.1. VALIDATION SUMMARY

4 existing customers had the opportunity to test the new features in a sandbox environment. Some usability improvements were suggested and included in the final build for testing.

8.2. VERIFICATION SUMMARY

A total of 63 tests were executed by 3 people. From these 63 tests 3 initially failed.

One of the issues found existed already in previous reported versions and it was decided not fixed it.

The other issues were fixed and the tests were successfully repeated.

8.3. FINAL VERDICT

One not blocking issue has been found. Despite that the software software build 2.3.7 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.

A total of 63 tests were executed by 3 people. From these 63 tests 3 initially failed.

One of the issues found existed already in previous reported versions and will not be fixed. The other issues were fixed and the test was successfully repeated.

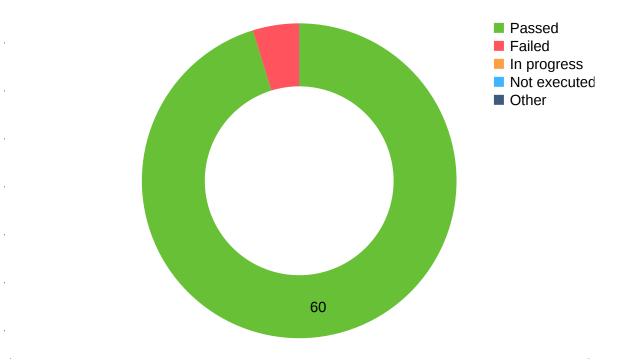
Date: 2023/06/29 14:49:39



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9.1. TESTED RELEASE BUILDS

The tests were executed using 3 builds each in one test cycles.

Build	Test Cycle	Number of Tests	Passed Tests
2.3.6.1158-24c5ded	First Cycle	53	51
2.3.6.1159-9e53676	Second Cycle	7	6
2.3.6.1161-630c848	Third Cycle	3	3

9.2. TESTERS

The test were executed by 3 users

Tester	Number of executed tests
Ignas	56
Wolfgang	6
Yves	1

9.3. TESTES ENVIRONMENT

All tests were executed with the latest versions of the used browsers



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9.3.0.0.1. OS / browser (incl version)

Windows 11 / Brave Version 1.52.126 Chromium: 114.0.5735.133 (Official Build) (64-bit)	62
Linux / Ubuntu 20.04.6 LTS	1

Other 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 change
- all FEAT have been tested (see Appendix: Test Results Changes)
- 35 of the executed tests were directly linked to the changes made
- 28 were regression tests, selected manually

10. VALIDATION DETAILS

The beta version of the software was demonstrated and validated by 4 existing customers in a sandbox environment.

Some minor feedback about usability was taken into consideration and was added to the final, tested release. Besides that the verdict was that the new functionality is ready to use.

All changes from the previous version are documented and covered by tests. All these tests were executed as part of the verification.

11. APPENDIX: CHANGES

FEAT-882 Compose Module

This module allows you to split a a big product into components and develop and release these independently. These components can than be included in products.

When this module is enabled, item ids will be unique across projects. However branching off a project will maintain the id, as the items with the same id are supposed to be essentially the same across projects, even though they can be variations of the same 'thing'.

This module allows you to create master projects, which include parts of other projects, including traceability. Included items will be linked to their source and be updated to the latest version or another variation (branch) of the same item.

It is also possible to copy items from another project including traces between them. Importing will create new ids, while including will keep the ids the same between the different projects.

FEAT-903 Text replace option in custom section print of attributes

Option to replace text in the value of an attribute when printing



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Adds an optional "replace" parameter in the printing of attribute values in the Custom Section templates. See the documentation in the advanced settings editor of the "Attribute of item" print function.

FEAT-905 Risk dropdown can now change html factors

A drop down in a risk factor can now also change the content of other rich text factors.

When selecting a value for a risk factor dropdown, other rich text fields can now be auto set to some predefined values.

FEAT-899 Risk weights with single characters labels did not print correctly

If the label of a risk weight was a single character, custom PRINT templates would no longer print the Risk correctly.

All weights of risk can now be printed in custom print sections.

FEAT-900 History display can break with some HTML formatting

Some HTML classes copy/pasted from external sources could conflict with the layouting in the History view.

The History display of rich text is now escaped to avoid conflict with Matrix styling.

FEAT-902 Rendering of tables in in annotations view of reviews was not nice

Tables were not rendered nicely in reviews, some parts of large tables were cut off

Tables are now showing completely in reviews

FEAT-904 History did not show review fields

When looking at the history of an item, review fields were not shown

Now reviews are shown in the history view



Verification and Validation Report, Ver 2.3 Update 6		
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12. APPENDIX: TEST RESULTS CHANGES

Item	Tested By	Execution Date	Last Modification	Test Result
FEAT-882 Compose Module	XTC-2960 Compose Module (UC-39)	2023/06/21	2023/06/28 11:12:51	passed
	XTC-2932 Compose License and Unique ID Test (TC-364)	2023/06/21	2023/06/21 17:45:48	passed
	XTC-2933 Compose: Include Dashboard (TC-365)	2023/06/27	2023/06/27 06:02:57	passed
	XTC-2934 Compose: Includes can be deleted (TC-366)	2023/06/21	2023/06/21 19:35:51	passed
	XTC-2935 Compose: Included items cannot be deleted (TC-367)	2023/06/21	2023/06/21 19:40:34	passed
	XTC-2936 Compose: The user cannot make two includes from the same project (TC-368)	2023/06/22	2023/06/22 12:40:27	passed
	XTC-2937 Compose: Includes can be switched to other projects (TC-369)	2023/06/22	2023/06/22 12:45:23	passed
	XTC-2938 Compose: Includes Item Updates (TC-370)	2023/06/22	2023/06/22 15:13:21	passed
	XTC-2939 Compose: Copy Dashboard & Copy Action (TC-371)	2023/06/22	2023/06/22 16:34:30	passed
	XTC-2940 Compose: Read-Only Items (TC-372)	2023/06/22	2023/06/22 16:45:28	passed
	XTC-2941 Compose: Drag and Drop (TC-373)	2023/06/22	2023/06/22 19:48:57	passed



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Item	Tested By	Execution Date	Last Modification	Test Result
	XTC-2942 Compose: Branching (TC-374)	2023/06/22	2023/06/22 20:45:48	passed
	XTC-2943 Compose: Importing projects from file when unique serial is set (TC-375)	2023/06/22	2023/06/22 20:48:33	passed
	XTC-2944 Compose: PRINT included items (TC-376)	2023/06/23	2023/06/23 10:37:26	passed
	XTC-2945 Compose: Not Possible to Include Items That are Already in the Project (TC-377)	2023/06/22	2023/06/22 21:08:16	passed
	XTC-2946 Compose: Delete and Restore of Projects (TC-378)	2023/06/23	2023/06/23 10:53:12	passed
	XTC-2947 Compose: User Action Restrictions (TC-379)	2023/06/23	2023/06/23 12:32:32	passed
	XTC-2948 Compose: MRQL Searches (TC-380)	2023/06/23	2023/06/28 09:37:59	passed
	XTC-2949 Compose: Print support (TC-381)	2023/06/23	2023/06/28 09:40:39	passed
	XTC-2950 Compose: Copying Projects with Imports (TC-382)	2023/06/23	2023/06/23 16:34:44	passed
	XTC-2951 Compose: Links (TC-383)	2023/06/23	2023/06/23 16:39:49	passed
	XTC-2952 Compose: Copies Deletion (TC-385)	2023/06/23	2023/06/23 16:43:45	passed
	XTC-2970 Compose: Export/Import (TC-386)	2023/06/29	2023/06/29 14:25:09	passed
	XTC-2954 Compose: Empty Project Copy (TC-388)	2023/06/21	2023/06/21 19:29:53	passed



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Item	Tested By	Execution Date	Last Modification	Test Result
	XTC-2959 Compose: Allow Include Project Setting (TC-389)	2023/06/23	2023/06/23 17:20:03	passed
	XTC-2956 Compose: Include Fields (TC-390)	2023/06/23	2023/06/23 17:28:51	passed
	XTC-2957 Compose: Include Labels (TC-391)	2023/06/23	2023/06/23 20:34:41	passed
	XTC-2958 Compose: Include Item Preview (TC-392)	2023/06/23	2023/06/23 20:40:09	passed
FEAT-903 Text replace option in custom section print of attributes	XTC-2964 PRINT - Attribute Text replacement (TC-384)	2023/06/29	2023/06/29 09:02:32	passed
FEAT-905 Risk dropdown can now change html factors	XTC-2962 Risk Factor Options (TC-313)	2023/06/28	2023/06/28 19:28:59	passed
FEAT-899 Risk weights with single characters labels did not print correctly	XTC-2963 Print - Risks (TC-362)	2023/06/28	2023/06/28 19:30:12	passed
FEAT-900 History display can break with some HTML formatting	XTC-2965 Test conflicting CSS Styling (TC-363)	2023/06/29	2023/06/29 14:52:42	passed
FEAT-902 Rendering of tables in in annotations view of reviews was not nice	XTC-2966 Review Annotations For Tables (TC-393)	2023/06/28	2023/06/28 18:59:51	passed
FEAT-904 History did not show review fields	XTC-2969 Review History (TC-394)	2023/06/29	2023/06/29 14:14:12	passed



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13. APPENDIX: TEST RESULTS REGRESSION TESTS

Executed Test Case	Execution Date	Last Modification	Test Result
XTC-2960 Compose Module (UC-39)	2023/06/21	2023/06/28 11:12:51	passed
XTC-2907 References Tests (TC-4)	2023/06/26	2023/06/28 09:42:08	passed
XTC-2908 Tree, Search and Filter (TC-5)	2023/06/27	2023/06/28 09:44:41	passed
XTC-2909 Item Creation And Versioning (TC-2)	2023/06/27	2023/06/27 11:21:14	failed
XTC-2910 Test and Use Cases basics and Test Run Creation (TC-7)	2023/06/27	2023/06/27 17:21:40	passed
XTC-2962 Risk Factor Options (TC-313)	2023/06/28	2023/06/28 19:28:59	passed
XTC-2963 Print - Risks (TC-362)	2023/06/28	2023/06/28 19:30:12	passed
XTC-2964 PRINT - Attribute Text replacement (TC-384)	2023/06/29	2023/06/29 09:02:32	passed
XTC-2911 Controlled Documents (TC-9)	2023/06/27	2023/06/27 19:53:02	passed
XTC-2912 Trace Matrix Section (TC-54)	2023/06/27	2023/06/27 18:46:20	passed
XTC-2913 MRQL: Uplink, downlink and folder search (TC-98)	2023/06/21	2023/06/21 19:15:16	passed
XTC-2914 MRQL Test Searches (TC-107)	2023/06/26	2023/06/26 10:49:55	passed
XTC-2915 MRQL risk search (TC-99)	2023/06/26	2023/06/26 10:54:12	passed
XTC-2916 Tabbing Search Results Test (TC-221)	2023/06/26	2023/06/26 10:59:44	passed
XTC-2917 Search History (TC-222)	2023/06/26	2023/06/26 12:39:23	passed
XTC-2918 Date Searches (TC-225)	2023/06/26	2023/06/26 12:41:40	passed
XTC-2919 QMS Viewer Test (TC-74)	2023/06/28	2023/06/28 08:17:52	passed



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Executed Test Case	Execution Date	Last Modification	Test Result
XTC-2920 QMS Editor test (TC-76)	2023/06/28	2023/06/28 09:34:57	passed
XTC-2921 Context Pages (TC-46)	2023/06/26	2023/11/14 10:29:51	passed
XTC-2961 Smart links and breadcrumbs (TC-94)	2023/06/28	2023/06/28 16:25:04	passed
XTC-2923 Redlining Dashboard and Timewarp (TC-88)	2023/06/28	2023/06/28 08:18:27	passed
XTC-2924 Traceability Overview dashboard (TC-165)	2023/06/26	2023/06/27 06:03:16	passed
XTC-2925 Branch creation (TC-197)	2023/06/26	2023/06/26 12:51:23	passed
XTC-2926 Branching Unique Id Tests (TC-199)	2023/06/26	2023/06/26 14:31:51	passed
XTC-2927 Delete and undelete of branch (TC-200)	2023/06/26	2023/06/26 14:42:12	passed
XTC-2928 Branch Master Test (TC-201)	2023/06/26	2023/06/26 17:19:29	passed
XTC-2929 Content Merge - Fields (TC-214)	2023/06/26	2023/06/26 17:41:21	passed
XTC-2930 Merge History Test (TC-206)	2023/06/26	2023/06/28 10:06:18	passed
XTC-2966 Review Annotations For Tables (TC-393)	2023/06/28	2023/06/28 18:59:51	passed
XTC-2969 Review History (TC-394)	2023/06/29	2023/06/29 14:14:12	passed
XTC-2931 Verify version number display (TC-332)	2023/06/21	2023/06/21 18:42:50	passed
XTC-2965 Test conflicting CSS Styling (TC-363)	2023/06/29	2023/06/29 14:52:42	passed
XTC-2970 Compose: Export/Import (TC-386)	2023/06/29	2023/06/29 14:25:09	passed
XTC-2971 Compose: Project Cloning With History (TC-395)	2023/06/29	2023/06/29 14:41:28	passed