Traceability Report

Shows the requirements traceability through tests, test runs and defects.

It supports 3 level for requirements (e.g. Epic => Stories => Sub-tasks), allowing you to track the coverage at multiple levels.

Purpose

This report enables you to follow the life of a coverable issue (e.g. a requirement) in both forwards and backwards direction (i.e., from its origin all the way through tests, test runs and defects). It facilitates analysis of the overall test coverage status.

Possible usage scenarios:

- Make full traceability analysis, from coverable issues (e.g. requirements) <=> Tests <=> Test Runs <=> Defects;
- Evaluate the coverage status for a given version and see all linked (open/closed) defects;
- See the tests and test runs that cover each coverable issue, and analyze how that contributes to the overall coverage status;
- Analyze the requirements and related executions and defects in a given Test Environment;
- See what defects are impacting the requirements, or a subset of the requirements of a specific version.

How to use

This report is accessible either from the **Xray** icon on the project left sidebar or from the standard **Reports** icon, which includes other kinds of reports besides Xray.

Source coverable issues (e.g. "requirements") can be directly provided using a **Basic** or **Advanced** filter:

- **Advanced**: a JQL query to filter the coverable issues.
- **Basic:**
    - **Project:** project;
    - **Assignee:** the issue's assignee;
    - **Component:** the component assigned to the issue;
    - **Fix Versions:** versions assigned to the issue;
    - **Resolution:** the workflow resolution;
    - **Status:** the workflow status;
    - **Contains:** the full issue key or part of the summary.

It's also possible to configure the report with additional parameters:

- **Show Test Runs**: if <u>unchecked</u>, will hide the Test Runs column. This is quite useful when you are using Continuous Integration and you have multiple runs.

Analysis

On the left side, it's possible to define the <u>analysis strategy</u>, i.e., the way you want to analyze the selected/filtered requirements. You can choose to analyze either by **Latest, Version** or **Test Plan,** and complement it with a **Test Environment.**

If you choose analysis by:

- **Latest,** then the latest results from Test Executions are taken into account;
- **Version**, then only the Test Executions for the specified version are taken into account;
- **Test Plan**, then only the Test Executions (and related Tests and results) for the given Test Plan are considered for the calculation of the coverage status of each requirement.

If the **Test Environment** is specified, then it considers only the executions within that Environment are considered.

> **(i) Note**
>
> When you choose analysis by Test Plan, the coverable issues (e.g. requirements) are not filtered in any way. Therefore, if you want to restrict the list of requirements that are being shown (e.g., just show the requirements being indirectly covered by the Tests belonging to a Test Plan), you must always use the Filters dropdown.

Understanding the report

The issues and values that are shown in the report take into account the options selected for analysis, namely, the relevant Test Executions and corresponding Test Runs and defects.

The report not only shows the traceability between entities, but it also presents some calculated values for the selected options. For example, the requirement status and the Test status that are shown in the Requirements and Tests columns, respectively.

Column	Notes
Requirements	Coverable issues (e.g. "requirements") and the calculated coverage status, taking into account the options selected for analysis.
Tests	Tests and the calculated status, taking into account the options selected for analysis.
Test Runs	Test Runs and their status from all related Test Executions (only 3 are shown, but an action allows you to see all of them).
Defects	Defects directly associated with the Test Runs.

Performance

In Continuous Integration scenarios, with thousands of runs, showing all those Test Runs at the same time in this report may take some time and may overload your browser.

Therefore, we advise you to hide Test Runs column in the report, if the number of runs is considerable high (e.g. > 1000). The amount of information may overload your browser, and it will be hard for you to analyze the report with all that information.
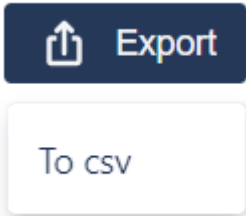
Examples

REQUIREMENTS	TESTS	TESTRUNS	DEFECTS

STORE-87 TO DO

As a user, I want to have version control for documents

OK

STORE-88 TO DO

Test As a user, I want to have version control for documents

PASSED

STORE-89 View Details

Fix Version/s: 1.0
Finished On: Monday 06:12 PM
Executed By: Mélanie Castro
Test Environments: CHROME

PASSED

STORE-16 TO DO

Fix Version/s: 1.0

Account Security

NOK

STORE-14 TO DO

Fix Version/s: 1.0

As a visitor, I can navigate to the book details page

OK

STORE-28 TO DO

Test visitors can navigate to the book details page

PASSED

STORE-89 View Details

Fix Version/s: 1.0
Finished On: Yesterday 05:08 PM
Executed By: Mélanie Castro
Test Environments: CHROME

PASSED

STORE-46 View Details

Fix Version/s: 1.0

REQUIREMENTS	TESTS	TESTRUNS	DEFECTS

STORE-16 TO DO

Fix Version/s: 1.0

Account Security

NOK

STORE-17 TO DO

Fix Version/s: 1.0

As a user, I want to be enforced to have a strong password so my account is properly secured

NOK

STORE-38 TO DO

Manual test of strong password validation

FAILED

STORE-45 View Details

Fix Version/s: 1.0
Finished On: Today 11:21 AM
Executed By: Mélanie Castro
Test Environments: CHROME

FAILED

STORE-18 TO DO

Password validation failed: weak password

STORE-15 TO DO

Fix Version/s: 1.0

As a user, I want to reset my password so I can regain access when I forget it

OK

STORE-37 TO DO

Manual test of password reset procedure

PASSED

STORE-74 View Details

Fix Version/s: 1.0
Finished On: Today 04:49 PM
Executed By: Mélanie Castro
Test Environments: CHROME

PASSED

STORE-73 View Details

Fix Version/s: 1.0
Finished On: Today 04:52 PM
Executed By: Mélanie Castro
Test Environments: CHROME

PASSED

STORE-72 View Details

Fix Version/s: 1.0
Finished On: -
Executed By: Mélanie Castro
Test Environments: CHROME

EXECUTING

Exporting the Report

The report can be exported to a CSV file, which will export up to 1000 issues. The export to CSV will take into account if the show test runs option is enable.

Click on **Export** and select **To csv**.

Share

To share the report click the **Share** button and then click the copy icon to copy the link to clipboard after this you can send the link to other users who can then view the report with the same filters. This link will be deleted if it's not used for more than 6 months.