

# Integrity Checker

- Integrity Checker
  - Test Runs
  - Test Steps
  - Xray Issue Links
- Calculated Custom Field Values
  - Requirement Status Cache
  - Test Run Status Custom Field
  - Manual Steps Count Custom Field
  - Test Set Test Count and Test Plan Test Count
  - Test Execution Defects Custom Field
- Automated Steps Library
  - Missing Test Steps
  - Missing Pre-Condition Steps
  - Orphan automated Steps and Labels
- Hierarchical Test Organization

The Integrity Checker allows you to check and fix invalid or duplicated values in the Xray data. It also enables you to clear Xray-calculated custom fields, import automated steps from existing issues to the Automated Steps Library and fix integrity of Test Repositories and Test Plan Boards.

## Integrity Checker

Select one or more actions from the list below to check for out of date information in Xray.

### Integrity Checker

☐ **Check All**

☐ Check Test Runs

☐ Check for invalid Test Runs

☐ Check for duplicated Test Runs

☐ Check Test Steps

☐ Check for invalid Test Steps

☐ Check for invalid Mementos

☐ Check Xray issue links

☐ Check for invalid issue links

☐ Check for invalid screens configurations

☐ Check for duplicated Custom Fields in screen

Check

### Calculated Custom Field Values

☐ **Clear all**

☐ Clear Requirement Status Cache

☐ Clear Test Run Status Custom Field

☐ Clear Manual Steps Count Custom Field

☐ Clear Test Set Test Count and Test Plan Test Count Custom Field

☐ Clear Test Execution Defects Custom Field

Clear

### Automated Steps Library

Project

c2

⌵

☐ **Check All**

☐ Check for missing Test Steps

☐ Check for missing Pre-Condition Steps

☐ Check for orphan automated Steps and Labels

Check

### Integrity of Hierarchical Test Organization

☐ **All**

☐ Test Repositories

☐ Test Plan Boards

Fix

# Integrity Checker

This section allows you to fix invalid Xray values that are stored in the database.

## Integrity Checker

☐ **Check All**

☒ Check Test Runs

☒ Check for invalid Test Runs☒ Check for duplicated Test Runs

☐ Check Test Steps

☐ Check for invalid Test Steps☐ Check for invalid Mementos

☐ Check Xray issue links

☐ Check for invalid issue links

Check

## Integrity Checker

Check Test Runs

PASSED: Check for invalid Test Runs

PASSED: Check for duplicated Test Runs

Check Test Steps

Check for invalid Test Steps

Check for invalid Mementos

Check Xray issue links

Check for invalid issue links

Back

## Test Runs

You can check and fix invalid or duplicated Test Runs.

☒ Check Test Runs

☒ Check for invalid Test Runs☒ Check for duplicated Test Runs

## Test Steps

You can check and fix invalid Test Steps and Mementos. A Memento is a copy of a Test Run so that when a Test is changed, the Test Run keeps the state prior to the Test changes.

☐ Check Test Steps

☐ Check for invalid Test Steps☐ Check for invalid Mementos

## Xray Issue Links

You can check and fix Invalid Issue Links. These links can be of type Test Set <-> Test and Test <-> Precondition.

- ☐ Check Xray issue links
  - ☐ Check for invalid issue links

## Calculated Custom Field Values

Starting from version 2.0.0 of Xray, the following Xray custom fields are recalculated upon any change and stored to be used when necessary. This means the value for a custom field is not calculated every time it is displayed. This improves performance considerably for several Xray screens and queries.

Because Jira does not provide the appropriate mechanisms and notifications for certain events like issue link events (<https://jira.atlassian.com/browse/JRA-8505>), Xray needs to intercept all requests that might change links and perform the appropriate calculations on its custom fields. Despite our best effort, there might be certain use cases where the custom fields are not updated, resulting in outdated values. When this happens, we provide the ability to remove the value of all custom fields. The value will then be calculated upon first access, or when a Jira re-index operation is performed.

Aside from being able to clear the custom field values, you can do bulk operations for:

- Resetting the value of the **Requirement Status** custom field on Requirement issues
- Resetting the value of the **TestRunStatus** custom field on Test issues

Additionally, Xray provides some specific issue operations that allow you to clear the custom field values individually:

- Resetting the **Requirement Status** custom field for a Requirement issue
- Resetting the **TestRunStatus** custom field for a Test issue
- Resetting the **Test Execution Defects Count** custom field for a Test Execution and Sub-Test Execution issue.

The Xray calculated custom fields that you can clear are:

- **Requirement Status Cache**

Cache that contains all the Requirement Status that were previously calculated

- **Test Run Status Custom Field**

Calculated Custom Field that has the Test Run Status for a Test

- **Manual Steps Count Custom Field**

Calculated Custom Field that has the number of Manual Steps of a Test

- **Test Set Test Count and Test Plan Test Count**

Calculated Custom Field that has the number of Test Sets and Test Plans of a Test

- **Test Execution Defects Custom Field**

Calculated Custom Field that has the number of defects created in the context of a Test Execution

### Calculated Custom Field Values

|                          |   |
|--------------------------|---|
| <input type="checkbox"/> | <b>Clear all</b>  |
| <input type="checkbox"/> | Clear Requirement Status Cache                                  |
| <input type="checkbox"/> | Clear Test Run Status Custom Field                              |
| <input type="checkbox"/> | Clear Manual Steps Count Custom Field                           |
| <input type="checkbox"/> | Clear Test Set Test Count and Test Plan Test Count Custom Field |
| <input type="checkbox"/> | Clear Test Execution Defects Custom Field                       |

Clear

## Automated Steps Library

From Xray version 3.2, you have access to the Automated Steps Library. When upgrading from previous versions you may want to import your existing Cucumber steps to the steps library of your project.

**Missing Test Steps**

Cucumber Test Steps that are not currently in the Automated Steps Library.

**Missing Pre-Condition Steps**

Cucumber Pre-Condition Steps that are not currently in the Automated Steps Library.

**Orphan automated Steps and Labels**

Automated Steps that are not associated with any Test or Pre-Condition issues and automated Labels that are not associated with any step.

Automated Steps Library

Project

QA project ▼

- ☐ Check All
- 
- ☐ Check for missing Test Steps
- 
- ☐ Check for missing Pre-Condition Steps
- 
- ☐ Check for orphan automated Steps and Labels
- 

Check

Hierarchical Test Organization

Due to errors or misuse, a Test Repository may end up with references to Issues that are no longer Tests of that project, or, in the case of a Test Plan Board, references to issues that are no longer Tests of that Test Plan. These errors can be fixed in this section and you may select the repository types you want to fix.

Integrity of Hierarchical Test Organization

- ☐ All
- 
- ☐ Test Repositories
- 
- ☐ Test Plan Boards
- 

Fix