

# Test

In very simple terms, a Test is a sequence of steps coupled with conditions or variables, test inputs and an expected result. It is intended to establish the quality, performance or reliability of a piece of system, i.e., test target. Usually, every requirement or objective the test target is expected to achieve needs at least one Test. The success of the Test is determined by comparing expected and actual results.

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## Test Types

Tests in Xray can be of two types: automated or manual.

- [Automated](#)
- [Manual](#)

### Automated

Automated Tests are executed through an external tool which controls the execution of tests and the comparison of actual outcomes to predicted outcomes. They can automate some repetitive tasks in a formalized testing process already in place, or add additional testing that would be difficult to perform manually. The following automated Test types are available:

- [Cucumber](#)
- [Generic](#)

In Jira's administration, you may add other values for the "Test Type" custom field (see list below). For example, you may want to differentiate automated tests that may exist simultaneously in a project.

However, internally they will and must be handled as one of the two default Test Types for automated tests: "Cucumber" or "Generic".

Test Type custom field possible values	Internally will be handled as Test Type...
"Cucumber", "Automated[Cucumber]", "Gherkin", "Behave", "SpecFlow", "Behat"	Cucumber
"Generic", "Automated[Generic]"	Generic

Note: "Test Type" custom field values not shown above are not supported.

### Cucumber

Cucumber is a tool that executes plain-text functional descriptions as automated tests. The language that Cucumber understands is called **Gherkin**, which is a business-readable, domain-specific language that describes the software's behavior without detailing how that behavior is implemented. It is line-oriented language and uses indentation to define structure. Line endings terminate statements (e.g., steps). Either spaces or tabs may be used for indentation (but spaces are more portable). Most lines start with a keyword.

For more information on the Cucumber Basics, please consult the Wiki and Tutorials at: <http://cucumber.io>

### Fields

Cucumber Tests are divided in two **Scenario Types**:

- **Scenario**, a set of instructions exclusively composed by constant values, which, when executed by a tool, will only give a static result (e.g., 2 + 3 = 5)
- **Scenario Outline**, a generic set of instructions containing variables, which, when executed by a tool, will prompt varied results according to the specified input.

- The behavior to be reproduced by the Cucumber tool is entered in the **Steps** field.

## Create Issue

⚙️ Configure Fields ▾

Project\*

Demo Project (DEMO) ▾

Issue Type\*

Test ▾ ?

General

Test Details

Test Sets

Pre-Conditions

Test Plans

Link Issues

Test Type

Cucumber ▾

Choose the Test Type

Cucumber Type

Scenario Outline ▾

The Cucumber Scenario Type

Cucumber Scenario

Given I have entered <input\_1> into the calculator  
And I have entered <input\_2> into the calculator  
When I press <button>  
Then the result should be <output> on the screen

Examples  

input_1	input_2	button	output
20	30	add	50
2	5	add	7
0	40	add	40

Enter the Cucumber Scenario clauses in Gherkin

☐ Create another

Create

Cancel

## Generic

A Generic Test is an automated agnostic Test that is executed by an external tool. Execution results will then be imported back to Jira. An example might be a JUnit test that is used for quality assurance.

## Fields

The only Field that is related to a Generic Test is its **Definition**. Here, the automated external test may be defined or referenced through an open text field.

Create Issue ⚙️ Configure Fields ▾

Project\* 🌐 Demo Project (DEMO) ▾

Issue Type\* 🔍 Test ▾ ?

General | Test Details | Test Sets | Pre-Conditions | Test Plans | Link Issues

Test Type Generic ▾

Choose the Test Type

Generic Test Definition

Enter the definition for the generic Test

☐ Create another

Create

Cancel

The **Generic Test Definition** field supports the [Jira markup wiki language](#).

## Manual

**Manual Tests** are user-assisted tests, listing an assortment of guidelines the user must follow, and the results such behavior is expected to accomplish. If the actual test result matches the expected test result, the test is considered as passed; otherwise, it is marked as failed.

### Fields

**Manual Tests** are segmented in **Manual Steps**. Each **Manual Step** is composed of 4 fields (**Step**, **Data**, **Expected Result** and **Attachments**) with Step being the only mandatory one.

- **Step** - The action to be reproduced by the tester
- **Data** - Any data the related step requests (e.g., login credentials) to be used by the tester
- **Expected Result** - The behavior the step should accomplish
- **Attachments** - External files that provide additional information related with the corresponding **Manual Step**. Attachments can only be added or removed in the Test Issue view page.

Create Issue

Configure Fields

Project\* Demo Project (DEMO)

Issue Type\* Test ?

General

Test Details

Test Sets

Pre-Conditions

Test Plans

Link Issues

Test Type

Manual

Choose the Test Type

Steps

	Step	Data	Expected Result	
1	I choose the operation of the calculator "Subtraction"		The operation must appear selected	
2	I enter the input into the calculator	I1: 5 I2: 2		
3	I press the "Calculate" button		The result "3" should be displayed in the screen, on the right of the "=" sign	
				Add

Create another

Create

Cancel

The **Step**, **Data** and **Expected Result** fields support the [Jira markup wiki language](#).

## Actions

- [Create](#)
- [Edit](#)
- [Clone](#)
- [Export to Cucumber](#)

## Create

In order to create a new Test Issue,

**Step 1:** Click the **Create Issue** at the top of the screen to open the **Create Issue** dialog box / page.

**JIRA** Dashboards ▾ Projects ▾ Issues ▾ Tests ▾ **Create issue** Quick Search ? ⚙️ 👤 ▾

**FILTERS** << Search Save as Export ▾ Tools ▾

Find filters

My Open Issues  
Reported by Me  
Recently Viewed  
All Issues

**FAVORITE FILTERS**  
You don't have any favorite filters.

Calculator ▾ Test ▾ Status: All ▾ Assignee: All ▾ Contains text More ▾ 🔍 Advanced

1-5 of 5 🔍


T	Key	Summary	Assignee	Reporter	P	Status	Resolution	Created	Updated	Due
✕	CALC-16	Multiple Operations	Administrator	Administrator	↑	Open	Unresolved	26/Nov/13	26/Nov/13	⚙️
✕	CALC-12	Multiply two numbers	Administrator	Administrator	↑	Open	Unresolved	26/Nov/13	26/Nov/13	
✕	CALC-10	Divide two numbers	Administrator	Administrator	↑	Open	Unresolved	26/Nov/13	26/Nov/13	
✕	CALC-2	Subtract two numbers	Administrator	Administrator	↑	Open	Unresolved	26/Nov/13	26/Nov/13	
✕	CALC-1	Add two numbers	Administrator	Administrator	↑	Open	Unresolved	26/Nov/13	26/Nov/13	


1-5 of 5 🔍

**Step 2:** Select the **Project** and on **Issue Type**, select Test.

**Step 3:** Under the **General** tab, type a **Summary** for the test and fill all appropriate fields — at least, the mandatory ones marked with an asterisk.

## Create Issue ⚙️ Configure Fields ▾






Project\*  Demo Project (DEMO) ▾


Issue Type\*  Test ▾ ?


**General** Test Details Test Sets Pre-Conditions Test Plans Link Issues

Summary\*


Description

Style ▾ B I U A ▾ A ▾      + ▾ ⌵

 ?

Reporter\*  Nuno Santos

Start typing to get a list of possible matches.

Assignee  Automatic ▾

[Assign to me](#)

Fix Version/s **None**

☐ Create another **Create** Cancel

**Step 4:** On the Test Details tab, select the **Test Type** and complete all appropriate fields;

**Step 4a:** If you are writing a **Manual Test**:

- Select the **Test Type** as Manual.
- After filling out the Manual **Steps** fields, press the **Add** button to jump to the next Manual Step.
- Use the **Pencil** button to edit a previously entered Manual Step, and press the **Update** button when done.
- Use the **Bin** button to delete a previous entered Manual Step.
- To change a Manual Step position in the Test, drag the left area of the row and drop it to the desired place.

### Create Issue

Configure Fields

Project \*  
Demo Project (DEMO)

Issue Type \*  
Test

General

Test Details

Test Sets

Pre-Conditions

Test Plans

Link Issues

Test Type  
Manual

Choose the Test Type

Steps	Step	Data	Expected Result
	1	I choose the operation of the calculator "Subtraction"	The operation must appear selected
		I enter the input into the calculator	

I1: 5  
I2: 2

Add

Create another

Create

Cancel

**Step 4b:** If you are writing a **Cucumber Test**:

- Select the **Test Type** as Cucumber.
- On **Cucumber Type**, select either **Scenario** or **Scenario Outline** as test type.
- On **Cucumber Scenario**, enter the Cucumber Scenario clauses in Gherkin.

Create Issue

Configure Fields

Project\* Demo Project (DEMO)

Issue Type\* Test ?

General

Test Details

Test Sets

Pre-Conditions

Test Plans

Link Issues

Test Type

Cucumber

Choose the Test Type

Cucumber Type

Scenario Outline

The Cucumber Scenario Type

Cucumber Scenario

Given

I have entered <input\_1> into the calculator

And

I have entered <input\_2> into the calculator

When

I press <button>

Then

the result should be <output> on the screen

Examples

input_1	input_2	button	output
20	30	add	50
2	5	add	7
0	40	add	40

Enter the Cucumber Scenario clauses in Gherkin

Create another

Create

Cancel

**Step 4c:** If you are writing a **Generic Test**:

- Select the **Test Type** as Generic.
- On **Generic Test Definition**, enter the definition for the automated generic Test.

Create Issue

Configure Fields

Project\*

Demo Project (DEMO)

Issue Type\*

Test

?

General

Test Details

Test Sets

Pre-Conditions

Test Plans

Link Issues

Test Type

Generic

Choose the Test Type

Generic Test Definition

Enter the definition for the generic Test

☐ Create another

Create

Cancel

#### Optional:

- Click on the Test Sets tab to associate the current issue with Test Sets.
- Click on the Pre-Conditions tab to associate the current issue with Pre-Conditions.
- Click on the Test Plans tab to associate the current issue with Test Plans.
- Click on the Link Issues tab to link with other issues and specify the nature of the association.
- To create a series of similar tests – within the same **Project** – check the **Create another** box at the bottom of the dialog.

**Step 5:** When you are satisfied with the content of your test, click the **Create** button.

**Step 5a:** If you checked the **Create another** box, a new **Create Issue** dialog appears. This issue is automatically pre-populated with your previous test details, while leaving the **Summary** field blank.

## Edit

Editing an existing Test can be done in one of two ways:

- [Using the Edit Issue dialog box](#)
- [Using the Inline Edit for JIRA Plugin](#)

### Using the Edit Issue dialog box

The Edit Issue dialog box is similar to the Create Issue dialog box, and can be accessed through the following steps:

**Step 1:** Click the **Edit** button (at the top-left of the 'view issue' page) to open the **Edit Issue** dialog box.





Demo Project / DEMO-1

## Subtract two numbers



Edit

Comment

Assign

More ▾

Start Progress

Resolve Issue

Close Issue

Admin ▾

### Details

Type:

Test

Status:

OPEN (View Workflow)

Priority:

Medium

Resolution:

Unresolved

Labels:

None

### Description

Click to add description



### Test Details

Type:

Manual

Manual Steps:

+ Import Steps ▾

Step	Data	Expected Result	Attachments
1 I choose the operation of the calculator "Subtraction"		The operation must appear selected	+ ...
2 I enter the input into the calculator	I1: 5 I2: 2		+ ...
3 I press the "Calculate" button		The result "3" should be displayed in the screen, on the right of the "=" sign	+ ...

**Step 2:** Modify your Test's details in the appropriate fields of the **Edit Issue** dialog box General tab.

Edit Issue : DEMO-1

Configure Fields

General
Test Details
Test Sets
Pre-Conditions
Test Plans
Link Issues

Summary\*

Subtract two numbers

Description

Style
B
I
U
A
A
Link
U
List
List
Emoji
+

Reporter\*

Nuno Santos
Start typing to get a list of possible matches.

Assignee

Unassigned
Assign to me

Fix Version/s
None

Priority

Medium

Component/s
None

Environment

Style
B
I
U
A
A
Link
U
List
List
Emoji
+

Update

Cancel

**Step 3:** Click on the Test Details tab to edit the Test Type and any complementary fields.

**Step 3a:** If you are editing a **Manual** Test:

- To input a new Manual **Steps** field, use the empty areas at the bottom and click the **Add** button.
- Use the **Pencil** button to edit a previously entered Manual Step, and click the **Update** button when done.
- Use the **Bin** button to delete a previously entered Manual Step.
- To change a Manual Step position in the Test, drag the left area on the that row and drop it to the desired place.

Edit Issue : DEMO-1

Configure Fields

General
Test Details
Test Sets
Pre-Conditions
Test Plans
Link Issues

Test Type
Manual
Choose the Test Type

Steps

	Step	Data	Expected Result	Attachments
1	I choose the operation of the calculator "Subtraction"		The operation must appear selected	<div> <div></div> <div></div> </div>
2	I enter the input into the calculator	I1: 5 I2: 2		<div> <div></div> <div></div> </div>
3	I press the "Calculate" button		The result "3" should be displayed in the screen, on	<div> <div>Update</div> <div>Cancel</div> </div>
				<div> <div>Add</div> </div>

Comment

Style
B
I
U
A
A
Link
Image
List
List
Emoji
+

Viewable by All Users

Update

Cancel

**Step 3b:** If you are editing a **Cucumber** Test:

- To change test type on **Cucumber Type**, select either **Scenario** or **Scenario Outline**.
- In the **Steps** field, you can edit a previously entered or create a new Cucumber Scenario clauses in Gherkin.

Edit Issue : DEMO-2

Configure Fields

General

Test Details

Test Sets

Pre-Conditions

Test Plans

Link Issues

Test Type

Cucumber

Choose the Test Type

Cucumber Type

Scenario Outline

The Cucumber Scenario Type

Cucumber Scenario

Given

I have entered <input\_1> into the calculator

And

I have entered <input\_2> into the calculator

When

I press <button>

Then

the result should be <output> on the screen

Examples

input_1	input_2	button	output
20	30	add	50
2	5	add	7
0	40	add	40

Enter the Cucumber Scenario clauses in Gherkin

Comment

Style

B

I

U

A

^A

+

Update

Cancel

**Step 3c:** If you are editing a **Generic** Test:

-In the **Steps** field, you can edit a previously entered or create a new Definition for the automated generic Test.

Edit Issue : DEMO-3

Configure Fields

General

Test Details

Test Sets

Pre-Conditions

Test Plans

Link Issues

Test Type

Generic

Choose the Test Type

Generic Test Definition

https://code.myorganization.com/projects/math/qualitytests/TestScientificMode.java

Enter the definition for the generic Test

Comment

Style

B

I

U

A

↕

A

↕

↕

↕

↕

↕

+

↕

↕

?

Viewable by All Users

Update

Cancel

### Optional:

- Click on the Test Sets tab to edit Test Set associations.
- Click on the Pre-Conditions tab to edit Pre-Condition associations.
- Click on the Link Issues tab to edit Links with other issues.

**Step 4:** Click the **Update** button to save your changes.

## Inline Editing Xray Tests

Xray Test issue sections support inline editing similar to Jira native and custom fields inline edit. This prevents full page reloads when modifying fields.

## Inline Edit Fields

To inline edit a field, just hover over the field view area and click it.

The following Test fields support inline edit:

- **Type:** The Test issue type
- **Definition:** The automated generic test definition (only visible for Generic tests)
- **Cucumber Type:** The Cucumber Scenario type (only visible for Cucumber tests)

To inline edit automated Test issues:

**Step 1b:** If you are inline editing a **Cucumber** Test:

- You can hover over the actual **Test Type**, click it, and change it to another type that is available on the select box.
- You can hover over the actual **Cucumber Type**, click it, and change it to another type that is available on the select box.
- You can hover over the **Steps** field, click it, and edit its contents.

Calculator / CALC-1  
Add two numbers

Edit Comment Assign More Start Progress Resolve Issue Workflow Export

**Details**

Type: Test Status: Open (View Workflow)  
 Priority: Major Resolution: Unresolved  
 Affects Version/s: None Fix Version/s: None  
 Labels: None

**Description**

This tests the addition of 2 numbers.

**Test Details**

Type: Automated[Cucumber]  
 Cucumber Type: Scenario Outline  
 Steps:  
 Given I have entered <input\_1> into the calculator  
 And I have entered <input\_2> into the calculator  
 When I press <button>  
 Then the result should be <output> on the screen

Examples:

input_1	input_2	button	output
20	30	add	50
2	5	add	7
0	40	add	40

**Xpporter for JIRA**

Template: Xray\_PT\_Template  
 Output format: PDF  
 Export

**People**

Assignee: Administrator  
 Reporter: Administrator  
 Votes: 0 Vote for this issue  
 Watchers: 1 Stop watching this issue

**Dates**

Created: 26/Nov/13 9:40 AM  
 Updated: 26/Nov/13 2:17 PM

**Step 1c:** If you are inline editing a **Generic** Test:

- You can hover over the actual **Test Type**, click it, and change it to another type available on the select box.
- You can hover over the **Definition** field, click it, and edit its contents.

Calculator / CALC-25  
Operations inside round brackets have priority

Edit Comment Assign More Start Progress Resolve Issue Workflow Export

**Details**

Type: Test Status: Open (View Workflow)  
 Priority: Major Resolution: Unresolved  
 Affects Version/s: None Fix Version/s: None  
 Labels: None

**Description**

Click to add description

**Test Details**

Type: Automated[Generic]  
 Definition: <https://code.myorganization.com/projects/math/qualitytests/TestScientificMode.java>

**Pre-Condition**

This test is not associated with Pre-Condition yet.

Associate Pre-Condition

**Xpporter for JIRA**

Template: Xray\_PT\_Template  
 Output format: PDF  
 Export

**People**

Assignee: Administrator  
 Reporter: Administrator  
 Votes: 0 Vote for this issue  
 Watchers: 1 Stop watching this issue

**Dates**

Created: Yesterday 10:30 AM  
 Updated: a minute ago

Notes: On Jira versions greater or equal to 7.3.0, the Definition field supports Jira's Rich Text Editor. To enable the Rich Text Editor, you have to set the renderer of the definition custom field to **Wiki Style Renderer**. It is also possible to use Rich Text Editor on Jira versions greater than 7.2.0 by enabling the experimental Rich Text Editor in Jira configurations, but this feature is not totally supported by Xray.

## Manual Test Steps Table

In addition to inline editable fields, Xray provides a Restful table for inline editing manual Test steps directly from the Test view issue screen.

From this table you can:

**Add Steps:** After entering the Test step details (**Step**, **Data** and **Expected Result** fields) using the bottom table row text boxes, click on the **Plus** icon for creating a new step. The new step will be added in the last position in the steps table.

**Remove Steps:** The last column for each step contains a **Bin** button for removing steps. After clicking the button, you will be prompted with a confirmation message to delete the step. This operation cannot be undone.

**Edit Steps:** When hovering over **Step**, **Data** and **Expected Result** fields, they get highlighted and if you click them, the step row visualization will change to edit mode. From here, you can edit the fields and click on the Update button that appears in the last column to save changes or you can cancel the changes by clicking on the Cancel button. Either way, the row will be back in View mode.

**Move Steps:** You can move a Test step Up or Down in the Test steps table in one of two ways:

- Click on the drag area in the first column of each step and drag the step to the desired position.
- Click on the **actions** menu and choosing the **"Move To.."** option. This method allows you to directly move a step to a specific position.

**Add Attachments:** While in View or Edit modes, you can add attachments to a step using the **Plus** sign appearing in the **Attachments** column. After clicking the button, you will be prompted with a dialog to choose the attachments to add.

**Remove Attachments:** While in View or Edit modes, you can remove attachments of Test steps using the **Bin** button that appears when hovering over existing attachments. After clicking the button, you will be prompted with a confirmation message to remove the attachment or not.

**Copy Step Fields:** You can copy the **Step**, **Data** and **Expected Result** fields to the clipboard by hovering over these fields and choosing the Copy icon next to each highlighted field. If the copy is successful, a green border will appear momentarily around the **Copy** icon.

**Expand Fields:** If the text boxes are too small to show all the information, you can expand the **Step**, **Data** and **Expected Result** fields by clicking the **Expand** icon next to each highlighted field. An inline dialog, with a bigger area, will be opened with the contents of the field and a wiki notation toolbar to assist you in writing your information. This operation is available in both View and Edit modes for manual Test steps.

**Clone Steps:** To clone an existing Test step, click on the **actions** menu and choose the **"Clone"** option. A confirmation message will appear. Once you confirm, a new step will be created in the last position, containing all information of the cloned step (Step, Data, Expected Result and Attachments).

Calculator / CAL-2  
Subtract two numbers

Edit Comment Assign More Start Progress Resolve Issue Close Issue Admin

**Details**  
Type: Test Status: OPEN (View Workflow)  
Priority: Medium Resolution: Unresolved  
Labels: None

**Description**  
Click to add description

**Test Details**  
Type: Manual

Manual Steps:

Step	Data	Expected Result	Attachments
1 I choose the operation of the calculator "Subtraction"		The operation must appear selected.	gltgnore_global.txt
2 I enter the input into the calculator	I1: 5 I2: 2		
3 I press the "Calculate" button		The result "3" should be displayed in the screen, on the right of the "=" sign.	

Clone Move to.. Delete

Created: 5 minutes ago  
Updated: 1 minute ago

Calculator / CAL-2

Subtract two numbers

Edit

Comment

Assign

More

Start Progress

Resolve Issue

Close Issue

Admin

Details

Type: Test

Priority: Medium

Labels: None

Status: OPEN (View Workflow)

Resolution: Unresolved

Description

Click to add description

Test Details

Type: Manual

Manual Steps:

Step

Data

Expected Result

Attachments

1 I choose the operation of the calculator "Subtraction"

The operation must appear selected.

+

2 I enter the input into the calculator

I1: 5  
I2: 2

+ +

3 I press the "Calculate" button

The result "3" should be displayed in the screen, on the right of the "=" sign.

+ +

+ +

Xporter for JIRA

Template: reqv2

Output format: DOCX

Export

People

Assignee: Unassigned

Reporter: Diamantino Pereira Campos

Votes: 0

Watchers: 1 Stop watching this issue

Dates

Created: 8 minutes ago

Updated: Just now



#### Edit Permissions

You can only inline edit Xray fields if you have permission to edit the Test issue.

## Changing the Type of a Test

In the [Global Preferences](#), Xray allows you to configure if a test definition is deleted or not.

If enabled, the previous Info details will be deleted.

## Change test type to Cucumber



The current type info details will be deleted. Do you want to continue?

Yes

Cancel

Otherwise, the Info details will not be deleted, and it'll be possible to undo the Test Type change operation and keep the previous information.



## Pre-Conditions Type mismatch



Changing the Test Type will remove the Pre-Conditions associated with this Test due to type mismatch.

Yes

Cancel

Additionally, in both cases, because each pre-condition must be of the same Type of the Test, any associated Pre-Conditions will be lost.

## Clone

Cloning a Test issue creates a new Test with all the information of the cloned Test, except its executions. Therefore, the cloned issue will not be associated with any Test Execution issue.

**Step 1:** Select **More > Clone**. The **Clone Issue** screen will appear.

The screenshot shows the JIRA interface for an issue titled 'Subtract two numbers' (Calculator / CALC-2). The 'More' menu is open, and the 'Clone' option is highlighted with a red circle. The menu also includes options like 'Log Work', 'Attach Files', 'Attach Screenshot', 'Voters', 'Stop Watching', 'Watchers', 'Create Sub-Task', 'Convert to Sub-Task', 'Move', 'Link', 'Clone', 'Labels', 'Delete', 'Where is my field?', 'Permission Helper', and 'Notification Helper'. The 'Clone this issue' button is also visible. The issue details show it is 'Open' with 'Unresolved' status and 'None' fix version. The 'Xporter for JIRA' section shows a template of 'Raven\_PT\_Templa' and output format of 'PDF'. The 'People' section shows the assignee and reporter as 'Administrator'. The 'Dates' section shows the issue was created on 26/Nov/13 9:41 AM and updated on 26/Nov/13 2:17 PM.

**Step 2:** You can edit the clone Test's **Summary** if you wish.

- If the test contains links to other issue(s), you can select whether or not to include the links in the new clone test.
- If the test contains sub-tasks, you can select whether or not to create the sub-tasks in the new clone test.
- If the test contains attachments, you can select whether or not to include the attachments in the new clone test.

**Step 3:** Click **Create**.

Clone

Enter the summary of the clone issue ...

Summary\* CLONE - Add two numbers

Clone Links ☐

Create Cancel

## Configure Test Run Columns

Xray provides the ability to configure columns for the Test Runs table. This configuration is specific to each user and can be restored to the default configuration defined in the [Default columns layout](#) page in Xray app administration.

The last column (i.e., Test Run Status) is fixed and cannot be removed from the table.

To configure columns for the Test Runs table,

**Step 1:** Open the Test issue.

**Step 2:** Click on the **Columns** select dropdown that appears in the Test Runs section, above the table in the top right corner. A list of the current configure columns and all available columns appears.

**Step 3:** Add or remove columns by clicking the checkboxes next to each field.

**Step 4:** Click the **Done** button when finished or **Cancel** to abort this operation. The table refreshes with the configured columns.

## Test Run Specific Columns

The following columns are not Jira fields, but they represent information stored internally by Xray for Test Runs. You can also choose these columns for your layout.

- **TestRun Assignee** - The Test Run assignee
- **TestRun Started** - The Test Run start date
- **TestRun Finished** - The Test Run finish date
- **TestRun Executed By** - The last user to execute the Test Run
- **TestRun Defects** - The Test Run defects

## Restoring Columns to Default Configuration

To restore columns in the Test Runs table to the default configuration,

**Step 1:** Open the Test issue.

**Step 2:** Click on **Columns**, select the dropdown that appears in the Test Runs section, above the table in the top right corner. A list of the current configure columns and all available columns appear.

**Step 3:** Click the **Restore Columns** link above the columns list. The table refreshes with the default configured columns.

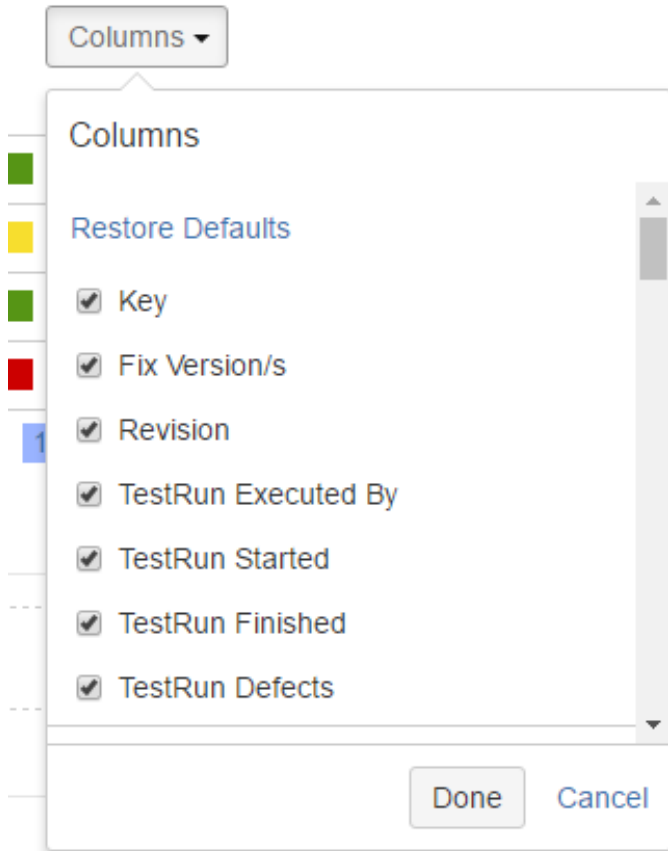
## Change the Order of Columns

To reorder columns in the Test Runs table,

**Step 1:** Open the Test issue.

**Step 2:** Hover over the desired column header.

**Step 3:** Click in the column header and drag it to the desired position.



## Configure Test Set Columns

Xray provides the ability to configure columns for the Test Sets table. This configuration is specific to each user and can be restored to the default configuration defined in the [Default columns layout](#) page in Xray app administration.

To configure columns for the Test Sets table,

**Step 1:** Open the Test issue.

**Step 2:** Click on **Columns**, select the dropdown that appears in the Test Sets section, above the table in the top right corner. A list of the current configure columns and all available columns appears.

**Step 3:** Add or remove columns by clicking the checkboxes next to each field.

**Step 4:** Click the **Done** button when finished or **Cancel** to abort this operation. The table refreshes with the configured columns.

## Restoring Columns to Default Configuration

To restore columns in the Test Sets table to the default configuration,

**Step 1:** Open the Test issue.

**Step 2:** Click on the **Columns** select dropdown that appears in the Test Sets section, above the table in the top right corner. A list of the current configure columns and all available columns appears.

**Step 3:** Click the **Restore Columns** link above the columns list. The table refreshes with the default configured columns.

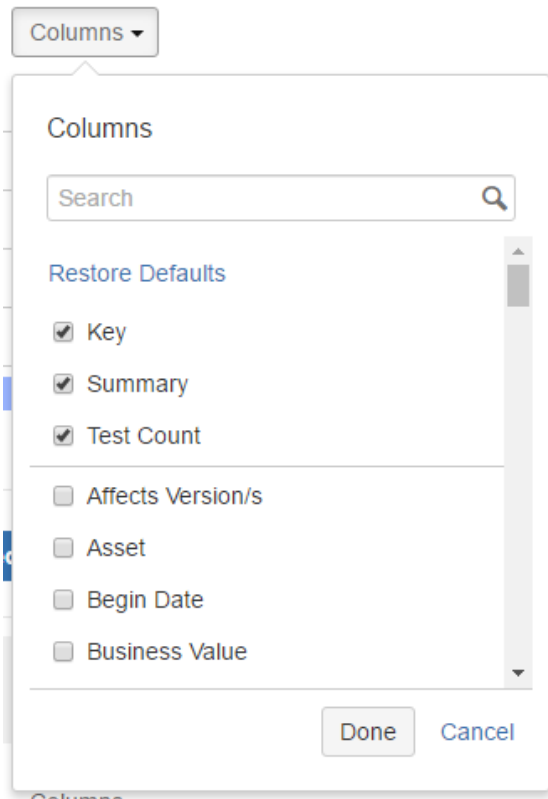
## Change Columns Order

To reorder columns in the Test Sets table,

**Step 1:** Open the Test issue.

**Step 2:** Hover over the desired column header.

**Step 3:** Click on the column header and drag it to the desired position.



## Configure Test Plan Columns

Xray provides the ability to configure columns for the Test Plans table. This configuration is specific to each user and can be restored to the default configuration defined in the [Default columns layout](#) page in Xray app administration.

To configure columns for the Test Plans table,

**Step 1:** Open the Test issue.

**Step 2:** Click on **Columns**, select the dropdown that appears in the Test Plans section, above the table in the top right corner. A list of the current configure columns and all available columns appears.

**Step 3:** Add or remove columns by clicking the checkboxes next to each field.

**Step 4:** Click the **Done** button when finished or **Cancel** to abort this operation. The table refreshes with the configured columns.

## Restoring Columns to Default Configuration

To restore columns in the Test Plans table to the default configuration,

**Step 1:** Open the Test issue.

**Step 2:** Click on **Columns**, select the dropdown that appears in the Test Plans section, above the table in the top right corner. A list of the current configure columns and all available columns appears.

**Step 3:** Click the **Restore Columns** link above the columns list. The table refreshes with the default configured columns.

## Change the Order of Columns

To reorder columns in the Test Plans table,

**Step 1:** Open the Test issue.

**Step 2:** Hover over the desired column header.

**Step 3:** Click on the column header and drag it to the desired position.

Columns ▾

Columns

Search

Restore Defaults

☒ Key
☒ Summary
☒ Test Plan Status
☐ Affects Version/s
☐ Begin Date
☐ Component/s
☐ Conditions

Done

Cancel

## Create Pre-Condition

To create a Pre-Condition directly associated to the current Test from the Test issue view screen:

**Step 1:** Open the **Test** issue view screen you wish to create a **Pre-Condition** with.

**Step 2:** Click the **Create Pre-Condition** button (under the **Pre-Condition** section on the view page) to open the **Create Issue** dialog box.

Calculator - CALC-12

Multiply two numbers

Edit

Comment

Assign

More ▾

Start Progress

Resolve Issue

Close Issue

Admin ▾

Details

Type: **Test**

Priority: **Major**

Affects Version/s: **None**

Component/s: **None**

Labels: **math multiplication numbers**

TestRunStatus: **v2.0 - 1000**

Status: **OPEN (View Workflow)**

Resolution: **Unresolved**

Fix Version/s: **v2.0**

People

Assignee: **Administrator**

Reporter: **Administrator**

Votes: **0**

Watchers: **1** Stop watching this issue

Dates

Created: **26/Nov/13 11:01 AM**

Updated: **Just now**

Agile

View on Board

HipChat discussions

Do you want to discuss this issue? Connect to HipChat

Connect

Dismiss

Description

This tests the multiplication of two numbers.

Text Details

Type: **Manual**

Manual Steps:

Step	Data	Expected Result	Attachments
1 I choose the operation of the calculator "Multiplication"		The operation must appear selected.	+ ...
2 The operation must appear selected.	11:27 12:9		+ ...
3 I press the "Calculate" button		The result "3" should be displayed in the screen, on the right of the "=" sign.	+ ...

Pre-Conditions

This test is not associated with Pre-Conditions yet.

Create Pre-Condition

Associate Pre-Conditions

**Step 3:** Type a **Summary** for the Pre-Condition and complete all appropriate fields — at least, the required ones marked by an asterisk. This issue is automatically pre-populated with your previous Test issue **Fix Version/s**.

**Step 4:** On the Pre-Condition Details tab, complete all appropriate fields. This issue is automatically pre-populated with your previous **Test type**.

**Step 5: Optional.** Click on the Tests tab to edit Test associations to associate more Tests. This issue is automatically pre-populated with your previous **Test key**.

**Step 5: Optional.** Click on the Tests tab to edit Test associations to associate more Tests. This issue is automatically pre-populated with your previous **Test key**.

Create Issue Configure Fields

Project Calculator (CALC)

Issue Type Pre-Condition

General Pre-Condition Details Tests

Tests CALC-12 X +

Start typing to get a list of possible matches or press down to select from a list of existing Tests to associate with this Pre-Condition

☐ Create another Create Cancel

**Step 6:** Click **Create**.

## Associate Pre-Conditions

To associate Tests with a Pre-Condition from the Test issue view screen:

**Step 1:** Open the **Test** issue view screen you wish to associate a **Pre-Condition** with.

**Step 2:** Click the **Associate Pre-Condition** button (under the **Pre-Condition** section on the view page) to open the **Associate Test with Pre-Condition** dialog box.

Calculator / CALC-12  
Multiply two numbers

Edit Comment Assign More Start Progress Resolve Issue Close Issue Admin Export

**Details**

Type: Test  
Priority: Major  
Affects Version/s: None  
Component/s: None  
Labels: math multiplication numbers  
TestRunStatus: v3.0 - 1000

Status: Unresolved View Workflow  
Resolution: None  
Fix Version/s: v2.0

**Description**  
This tests the multiplication of two numbers.

**Test Details**

Type: Manual

Manual Steps:

Step	Data	Expected Result	Attachments
1	I choose the operation of the calculator "Multiplication"	The operation must appear selected.	+ ...
2	The operation must appear selected.	11: 27 12: 9	+ ...
3	I press the "Calculate" button	The result "3" should be displayed in the screen, on the right of the "+" sign.	+ ...

Create Pre-Condition Associate Pre-Conditions

**Pre-Conditions**  
This test is not associated with Pre-Conditions yet.

**People**  
Assignee: Administrator  
Reporter: Administrator  
Votes: 0  
Watchers: 0 Stop watching this issue

**Dates**  
Created: 25/Nov/13 11:01 AM  
Updated: Just now

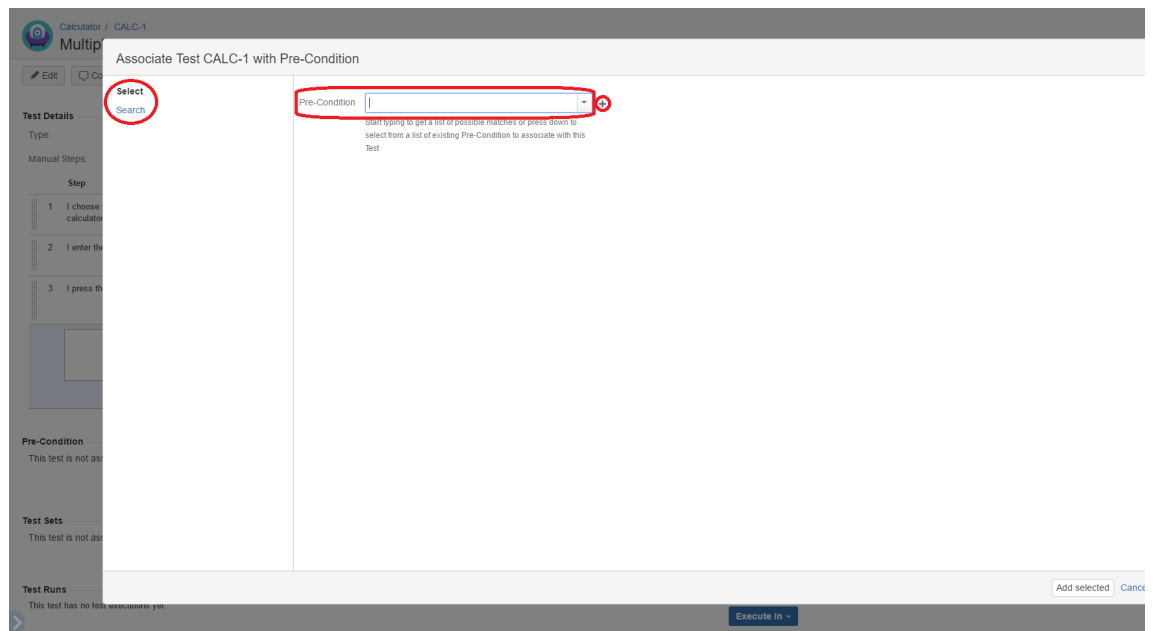
**Agile**  
View on Board

**HipChat discussions**  
Do you want to discuss this issue? Connect to HipChat.  
Connect Dismiss

**Step 3:** Select or search the **Pre-Condition** issues to be associated with the Test:

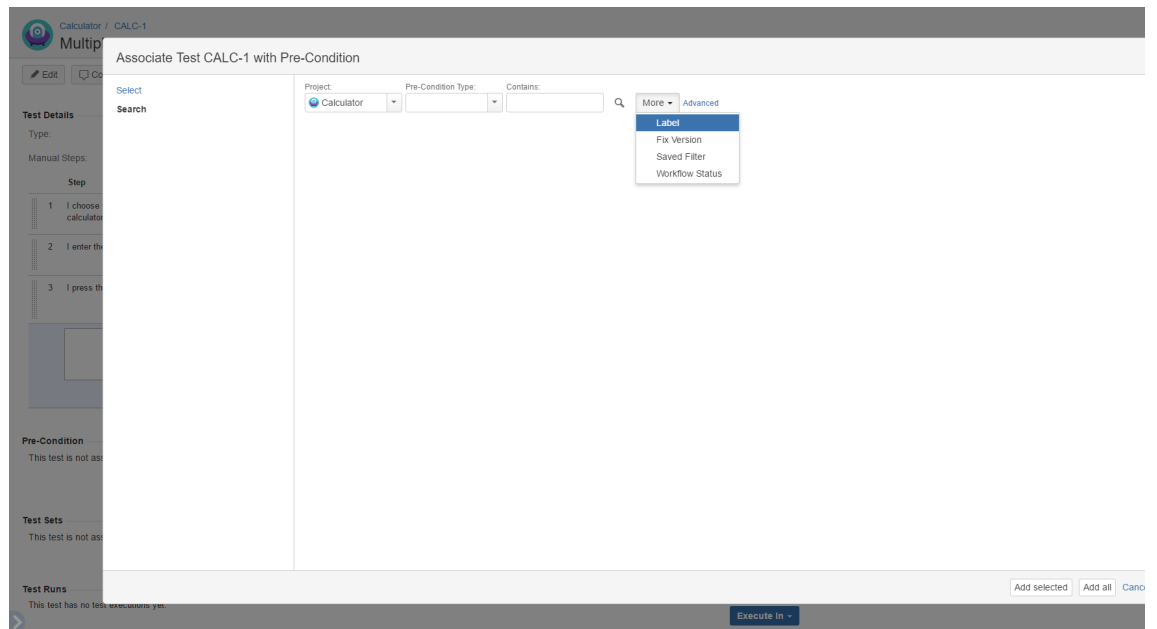
**Select Pre-Condition Issues** - In order to select the **Pre-Conditions** to be associated, you can:

- Input the desired Pre-Condition **Issue Key** on the **Pre-Conditions** field.
- Click on the **Down Arrow** on the Pre-Conditions field and select the Test Set from its **History Search** list.
- Click on the **+** button which will prompt an **Issue Selector** Pop-Up.
- Click on the **Search** tab to use the **Find Jira issues** browser.










**Search Pre-Condition Issues** - In order to search for Pre-Conditions to be associated you can, under the **Search** tab:

- Browse for the desired Pre-Condition **Project** or terms it **Contains**.
- Click on the **More** button to add more browse fields such as **Label**, **Fix Version**, **Saved Filter** and **Workflow Status**.
- Click on the **Magnifier** button after filling the browse fields to get a list of matching entries.
- Click on the **Advanced** button to perform a JQL search.



**Step 4:** Click **Add**.



Pre-Conditions			
			<a href="#">Associate Pre-Conditions</a>
	Show <input type="text" value="10"/> entries	Search <input type="text"/>	Columns ▾
	Key	Summary	
	1 DEMO-419	PC1	 ...
	2 DEMO-371	Open the calculator	 ...
	3 DEMO-341	Open the calculator	 ...
Showing 1 to 3 of 3 entries			First Previous <b>1</b> Next Last

## Remove Pre-Conditions

To remove a Pre-Condition association from the Test issue view screen:

**Step 1:** Open the Test you wish to remove the Pre-Condition association.

**Step 2:** On the Pre-Conditions table, hover over the desired Pre-Condition row and click on the **Trash** button that appears in the end of the row. You will be prompted with a confirmation dialog.

## Reorder Pre-Conditions

Pre-Conditions within a Test issue can be reordered. There are two ways to change the order of Pre-Conditions:

### Drag-and-Drop

To reorder Pre-Conditions,

**Step 1:** Open the Test issue.

**Step 2:** Hover over the desired Pre-Condition row (under the **Pre-Condition** section on the view page) and the drag handle column.

**Step 3:** Click the drag handle and move the Pre-Condition up or down in the current page.

## Change Rank Action

This action allows users to change the Rank of a Pre-Condition between pages.

To change the rank of a Pre-Condition through the action:

**Step 1:** Open the Test issue.

**Step 2:** Hover over the desired Pre-Condition (under the **Pre-Condition** section on the view page).

**Step 3:** Click the gear that appears in the last column. The actions menu should pop up with the available actions.

**Step 4:** Click the **Move To** action. The change rank dialog appears.

**Step 5:** Enter the desired index number (1-based) and click **OK**.

## Export to Cucumber

Cucumber Tests in Jira can be exported to feature files ready to be executed in Cucumber. The generated feature files follow the rules defined in [Export Cucumber Features](#) and take into account the context of the Jira Test issue.

A single Cucumber **feature** file should be generated and prompted for download, unless the target Test is associated with multiple **Requirements**, which, in that case, will prompt a **FeatureBundle** zip file containing a single Cucumber feature file for every Requirement associated with the target Test.

To export a Cucumber Test issue to feature files,

**Step 1:** Open the Cucumber Test issue view page.

**Step 2:** Select **More > Export to Cucumber**. The file will be downloaded to the browser.

The screenshot shows the Jira interface for issue 'CALC-1'. The 'More' dropdown menu is open, showing options like 'Log Work', 'Attach Files', 'Attach Screenshot', 'Voters', 'Stop Watching', 'Watchers', 'Create Sub-Task', 'Convert to Sub-Task', 'Move', 'Link', 'Clone', 'Labels', 'Delete', 'Export to Cucumber' (highlighted), 'Permission Helper', and 'Notification Helper'. The main content area shows the test details for 'Add two numbers', including a description, test steps, and a table of test data.

input_1	input_2	button	output
20	30	add	50

## Export Test to XML

Xray Test issues can be exported to XML. This export differs from the Jira default action for exporting to XML. Rather than exporting all fields, the Xray export action will only export to XML the most relevant fields for Tests, such as the Test definition fields, Pre-Conditions and some issue-tracking information.

To export a Test issue to XML,

**Step 1:** Open the Test issue view page.

**Step 2:** Select **More > Export Test to XML**. The resulting XML file will be downloaded to the browser.

Calculator / CALC-1

## Add two numbers

Edit

Comment

Assign

More

Start Progress

Resolve Issue

Workflow

Export

Priority:

Affects Version/s:

Labels:

Log Work

Attach Files

Attach Screenshot

Description

This tests the add

Test Details

Type:

Cucumber Type:

Steps:

Voters

Stop Watching

Watchers

Create Sub-Task

Convert to Sub-Task

Move

Clone

Labels

Delete

Export to Cucumber

Export Test to XML

Permission Helper

Notification Helper

Resolution:

Unresolved

Fix Version/s:

None

Template:

Sample Template

Output format:

DOCX (Word)

Export

People

Assignee:

Reporter:

Votes:

Watchers:

Administrator

Administrator

Vote for this issue

Stop watching this issue

Dates

Created:

Updated:

26/Nov/13 9:40 AM

30/Apr/14 11:59 AM

1 2

button

output

add

50

add

7

add

40

<input\_1> into the calculator

input\_2> into the calculator

>

ld be <output> on the screen

## Export Test Runs to CSV


Xray Test Runs can be exported to CSV. Xray export action will export to CSV the most relevant fields for Test Runs such as:

- Test Key
- Test Execution Key
- Executed By
- Assignee
- Start
- Finish
- Defects issue keys (list separated by ",")
- Attachment JIRA links (list separated by ",")
- Comment
- Status

To export a Test Run to CSV,

**Step 1:** Open the Test issue view page.

**Step 2:** Select **More > Export Test Runs to CSV**. The resulting CSV file will be downloaded to the browser.


Calculator / CALC-61

## Test Scientific Mode

Edit
Comment
Assign
More
Start Progress
Resolve Issue
Close Issue
Admin

**Details**

Type:
Priority:
Affects Version/s:
Labels:

Log Work
Attach Files
Attach Screenshot
Voters
Stop Watching
Watchers

**Description**

Click to add description

**Test Details**

Type:
Definition:

**Pre-Condition**

This test is not associated with a pre-condition

Create Sub-Task
Convert to Sub-Task
Move
Link
Clone
Labels
Delete
Export Test to XML
Export Test Runs to CSV
Export Test as Text

Status: **OPEN** (View Workflow)
Resolution: Unresolved
Fix Version/s: None

on.com/projects/math/qualitytests/TestScientificMode.java

Associate Pre-Condition

Export the Test Runs to a CSV file


## Export Test as Text

Automated Generic Test issues can be exported to a plain text file. Only the Test Definition field will be included in the plain text file. This action can be useful when executing a Generic Test outside of Jira.

To export an Automated Generic Test definition to plain text,

**Step 1:** Open the Automated Generic Test issue view page.

**Step 2:** Select **More > Export Test as Text**. The resulting plain text file will be downloaded to the browser.


Calculator / CALC-61

## Test Scientific Mode

Edit
Comment
Assign
More
Start Progress
Resolve Issue
Workflow
Export

**Details**

Type:
Priority:
Affects Version/s:
Labels:

Log Work
Attach Files
Attach Screenshot
Voters
Stop Watching
Watchers

**Description**

Click to add description

**Test Details**

Type:
Definition:

**Pre-Condition**

This test is not associated with a pre-condition

Create Sub-Task
Convert to Sub-Task
Move
Link
Clone
Labels
Delete
Export Test to XML
Export Test as Text
Permission Helper
Notification Helper

Status: **Open** (View Workflow)
Resolution: Unresolved
Fix Version/s: None

on.com/projects/math/qualitytests/TestScientificMode.java

Associate Pre-Condition

**Xporter for JIRA**

Template: Sample Template
Output format: DOCX (Word)
Export

**People**

Assignee: Administrator
Reporter: Administrator
Votes: 0 Vote for this issue
Watchers: 1 Stop watching this issue

**Dates**

Created: 27 minutes ago
Updated: 27 minutes ago

## From the Test issue view screen

## Import Steps


Test Steps can be imported from external sources such as:

- Test
- CSV
- JSON
- Clipboard

#### Test Details

Type: **Manual**

Manual Steps:

Step	Data	Expected Result	Attach
1 I choose the operation of the calculator "Subtraction"		The operation must appear selected.	 giti
2 I enter the input into the calculator	I1: 5 I2: 2		+ ...

- + Import Steps ▾
- From test...
  - From csv...
  - From json...
  - From clipboard...

You can configure which columns you want to import, including if you want to override the steps already present in the Test.

## From Test

The import from tests dialog allows you to choose which steps you wants to clone from a given test and a checkbox to choose if you want to override the steps already present in the Test.

Import Steps - Test

Test Issue SCROOG-1 - T1 ▾

<input type="checkbox"/>	Rank	Step	Data	Expected Result	#Attachments
<input checked="" type="checkbox"/>	1	25.Qui cupiditate autem reiciendis est, lorem asperiores consequuntur et alias.	25.Aliquid fugiat incididunt esse, tempora omnis voluptate sapiente harum cupidatat architecto aut voluptas aliquam dolore alias irure et blanditiis culpa.	25.Illo reprehenderit, nulla tenetur magna voluptatem accusamus nostrud labore laborum. Est, amet, nihil.	-
<input type="checkbox"/>	2	01.Irure delectus, dicta iste dolorem sint in eveniet, voluptas omnis est, culpa in et enim.	01.Aute cum maiores in incididunt consectetur amet, in eum est optio, lorem commodo pariatur? Quidem possimus, dolorum molestias quo et.	01.Velit voluptatem. Elit, perferendis veniam, anim atque hic fugiat quod dolorem nihil omnis consectetur sapiente autem.	-
<input checked="" type="checkbox"/>	3	Assumenda autem qui pariatur? Eos voluptas omnis minim non totam saepe blanditiis.	Sit, quos tempor alias incididunt aliquid duis velit officia qui.	Id quis ipsa, veniam, vel repudiandae saepe irure sint, qui delectus, ut laudantium, dolore voluptates magnam reprehenderit	-

☐ Reset Current Test Steps
 Import Cancel

## From CSV

The import steps from the CSV dialog allows you to choose the file that you wants to import the steps from, the delimiter that is used in the CSV, a dropdown to specify which column layout the steps present in the file have, a checkbox to specify if the file has header or not, and a checkbox to allow you to choose if you wants to override the steps already present in the Test.

## Import Steps - CSV

Escolher ficheiro

Nenhum ficheiro selecionado

The maximum file upload size is 10,00 MB.

CSV Delimiter

,

Column Layout:

Step Data Result

Select which fields you wish to import, the field steps are always imported.

Contains Header☐

When this option is selected the header is not included in the list of steps to import.

☐ Reset Current Test Steps

Import

Cancel

### From JSON

The import from JSON dialog allows you to specify which file you want to import the steps from and provides a checkbox if you want to override the steps already present in the Test.

## Import Steps - JSON

Escolher ficheiro

Nenhum ficheiro selecionado

The maximum file upload size is 10,00 MB.

☐ Override Steps

Import

Cancel

The JSON file should be an array of step objects. The objects should have the field **step** and can optionally have the fields **data** and **result**. Below is an example of a valid file:

### Example Json

```
[
  {
    "step": "Step 1",
    "data": "Data for Step 1",
    "result": "Result for Steps 1"
  },
  {
    "step": "Step 3",
    "data": "Data for Step 3"
  },
  {
    "step": "Step 4",
    "result": "Result for Step 4"
  },
  {
    "step": "Step 2"
  }
]
```

## From Clipboard

The import from clipboard allows you to copy the steps from Excel or CSV and paste them in the dialog. You can choose if you want to use the default Excel delimiter or use a custom one, if you want to copy steps from CSV. You can choose which column layout the steps in the file have and provides a checkbox if you want to override the steps already present in the Test.

### Steps

Copy and paste the excel or csv steps here

CSV Delimiter  ☒ Excel Default

Column Layout:

Select what fields you which to import, the field steps is always imported.

☐ Override Steps

After the steps are pasted in the dialog, it will display the previous version of the steps in the same dialog.

### Steps

Step	Data	Expected Result
Step 1	Data for step 1	Result for Step 1
Step 2		Result for Step 2
Step 3	Data for Step 3	
Step 4		

Copy and paste the excel or csv steps here

CSV Delimiter  ☒ Excel Default

Column Layout:

Select what fields you which to import, the field steps is always imported.

☐ Override Steps

## Export Steps

Manual Test Steps can be exported to CSV by clicking the “Export Steps” button in the Test Details section of the Test.

**Test Details**

Type: **Manual**

Manual Steps:

+ Export Steps ▾

+ Import Steps ▾

To csv...

To csv

Step	Data	Expected Result	Attachments
1 Choose the "Addition" operation of the calculator.		The operation must appear selected.	+ ...
2 Enter the input into the calculator	I1: 5 I2: 2		+ ...
3 Click the "=" button of the calculator.		The calculator must display 7 as the result.	+ ...

+

The following dialog will pop up.

Export CAL-1 Steps to csv

CSV Delimiter

Attachment links ☐

By selecting this option the csv file will include the JIRA links to attachments

Export

Cancel

The CSV delimiter can be changed and optionally, the attachment links can also be included.

The result will be a CSV file containing the [Step](#), [Data](#), [Expected Result](#) columns and, if the option is selected, the [Attachments](#) column that contains the attachments links.