

Test Runs

A Test Run (sometimes simply referred to as a "run") occurs when a Test is scheduled to execute within a Test Execution. Therefore, each time you run a Test, you're, in fact, performing a Test Run.

A Test Run is an internal instance of a Test scenario that is used to validate a specific version of source code/SUT, in a specific environment. Various test runs allow you to easily detect code defects that could lead to system failures.

A Test Run is not a Jira issue; it's an Xray internal entity.

Normally, you may see Test Runs within specific panels, such as in a Test Execution (a test run per Test) or within the Test issue screen (history of previous runs for that Test).



A Test Execution represents a task for running several Tests. It contains as many Test Runs as the number of Tests associated with it. To be precise, there is one Test Run per associated Test, in order to track the result for each Test.

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What is stored in a Test Run

A Test Run contains a copy of the testing specification of the Test and associated Preconditions. This specification only comprises some fields of these entities; thus, not all fields are copied to the Test Run.

General custom fields, summary, description fields are not replicated in the Test Run. Therefore, avoid using these fields to add "relevant" information to the test specification.

Depending on the original type of the Test associated with this Test Run, these fields are replicated in the Test Run:

	Manual Tests	Cucumber Tests	Generic Tests
Test	<ul style="list-style-type: none">• Test Type• Manual Steps	<ul style="list-style-type: none">• Test Type• Scenario	<ul style="list-style-type: none">• Test Type• Generic Test Definition
linked Precondition(s)	<ul style="list-style-type: none">• Precondition(s) Type• Conditions	<ul style="list-style-type: none">• Precondition(s) Type• Conditions	<ul style="list-style-type: none">• Precondition(s) Type• Conditions

Since a Test Run is related to the execution of a Test, obviously, it contains comments and information about linked defects and evidences (i.e., attachments).

Data consistency

Test Runs represent the results of running some Test specification at some moment in time, in the context of some Test Execution.

What happens if you change the Test specification at any time? Your existing Test Runs will not change (unless you want them to). This ensures data consistency and compliance with conformance regulations.

At the execution screen of a given Test Run, you will be presented with two options:

1. Merge current Test specification with the current specification in the Test Run
2. Reset the current Test Run, by copying the current Test specification to the Test Run and discard all recorded results

 **Learn more**

More information on these actions can be found in the [Execute Tests](#) page.

Execution History

The execution history of a given Test issue is available in the Test issue screen in the "Test Runs" section.

The Test Runs section is headlined by the Test Runs Filter that allows you to filter for:

- the **Project** in which the Test Execution the current Test is associated with
- the target release **Version** tested by the Test Execution the current Test is associated with
- the **Status** of the Test Execution the current Test is associated with
- the **Start** and **End** dates of the Test Execution the current Test is associated with
- the **Test Environment** of the Test Executions the current Test is associated with
- the **Clear** button that empties all the Test Runs Filter fields

The search results are displayed on the table immediately under the Test Runs Filter, containing the following columns:

- the **Execution Key** of the listed Test Execution the current Test is associated with
- the **Fix Version** tested by the listed Test Execution the current Test is associated with
- the **System Revision** tested by the listed Test Execution the current Test is associated with
- the **Exec by** who is the Assignee of the listed Test Execution the current Test is associated with
- the **Start** and **End** dates of the listed Test Execution the current Test is associated with
- the **Defects** related with the listed Test Execution the current Test is associated with
- the **Status** of the listed Test Execution the current Test is associated with

Actions

The **Execute Test** and **Execute Test Inline** actions are available in the Test issue screen. They may also be available in similar Test Runs sections that may be present in other places.

- [Execute Test](#)
- [Execute Test Inline](#)
- [View Test Execution Details](#)
- [Ad hoc Test Execution](#)
- [Configure Test Run Columns](#)
- [Archive Test Runs](#)

Execute Test

To execute a Test from a Test issue:

- Step 1:** Open the Test you want to run.
- Step 2:** Click **Test Runs** tab.
- Step 3:** Click **Run** (1, 2) to open the **Execution** page.

Test Details ...

Test details
Preconditions
Test Sets
Test Plans
Test Runs

Execute in ▼ ...

Filters ▼
10 ▼
Columns ▼

Key	Summary	Fix versions	Revision	Status	Actions
<input type="checkbox"/> STORE-86	TE for STORE-27 - N002	1.0	1.0.0	TO DO	▶ ...
<input type="checkbox"/> STORE-85	TE for STORE-27 - N001	1.0		EXECUTING	1 ▶ ...
<input type="checkbox"/> STORE-45	Iteration 1 - TP v1.0	1.0	1.0.0	PASSED	2 ☰ ...

Prev **1** Next Total **3** issues

The icon in **2** is only displayed when the test run is in a final status.

Execute Test Inline

To execute Test Runs Inline from the Test issue screen, this option must be enabled in the Xray administration page. The option for setting the Test Run status manually, without having to execute all Test Steps (or Examples in the case of Cucumber Tests), must also be enabled in the Miscellaneous Settings either from the Project Settings or Global Settings.

If the above options are enabled and you have permission to execute the Test, the context menu for executing Test Runs, accessed by the **Execute** button on each Test Run must show the available transitions.

When executing inline Tests, the status of the manual steps (or Examples in the case of Cucumber Tests) can be changed automatically. The following rules are applied:

- **PASS**: All steps statuses will be changed to PASS independent of their current status.
- **FAIL**: All steps statuses will remain unchanged, even if they are all PASS. This is because a Test might fail due to a Pre-Condition.
- **TO DO**: All steps statuses will be changed to TO DO.
- **EXECUTING**: The Test execution status will be changed to EXECUTING.
- **CUSTOM**: The Test execution status will be changed to the specified custom status.

To execute a Test Run inline:

Step 1: Open the **Test** issue you want to run.

Step 2: Click **Test Runs** tab.

Step 3: Click on the **Status** located in the status column of the **Test Runs** table and select one of the available statuses.

Test Details ...

Test details
Preconditions
Test Sets
Test Plans
Test Runs

Execute in ▼ ...

▼
Filters
10
Columns

Key	Summary	Fix versions	Revision	Status	Actions
<input type="checkbox"/> STORE-86	TE for STORE-27 - N002	1.0	1.0.0	TO DO	▶ ...
<input type="checkbox"/> STORE-85	TE for STORE-27 - N001	1.0		PASSED	...
<input type="checkbox"/> STORE-45	Iteration 1 - TP v1.0	1.0	1.0.0	EXECUTING	...

Prev **1** Next 3 issues

View Test Execution Details

To view the execution details:

Step 1: Open the Test issue you want to view the test execution details.

Step 2: Click **Test Runs** tab.

Step 3: Click the **Execute** button, which appears in the last column of the desired Test Run that is in a final state, to open the **Execution** page and view the details.

Test Details ...

Test details
Preconditions
Test Sets
Test Plans
Test Runs

Execute in ▼ ...

▼
Filters
10
Columns

Key	Summary	Fix versions	Revision	Status	Actions
<input type="checkbox"/> STORE-86	TE for STORE-27 - N002	1.0	1.0.0	TO DO	▶ ...
<input type="checkbox"/> STORE-85	TE for STORE-27 - N001	1.0		EXECUTING	▶ ...
<input type="checkbox"/> STORE-45	Iteration 1 - TP v1.0	1.0	1.0.0	PASSED	☰ ...

Prev **1** Next Total 3 issues

Ad hoc Test Execution

To execute a test in an ad hoc manner:

Step 1: Open the Test issue you want to execute.

Step 2: Click **Test Runs** tab.

Step 3: Click the **Execute In** button in Test Runs section and select **New Test Execution...**

Test Details ...

Test details Preconditions Test Sets Test Plans **Test Runs**

Execute in 10 Columns

- New Test Execution...
- Existing Test Execution...

Key	Summary	Fix versions	Revision	Status	Actions
<input type="checkbox"/> STORE-86	TE for STORE-27 - N002	1.0	1.0.0	TO DO	▶ ⋮
<input type="checkbox"/> STORE-85	TE for STORE-27 - N001	1.0		EXECUTING	▶ ⋮
<input type="checkbox"/> STORE-45	Iteration 1 - TP v1.0	1.0	1.0.0	PASSED	☰ ⋮

Prev **1** Next Total **3** issues

Step 4: The dialog comes with pre-populated fields so if you don't want to change anything, just click **Create**.

Note: If there are custom required fields, an error message will be displayed asking you to open the normal create issue screen with the pre-populated fields. If the revision field is not configured in the create issue screen of the Test Execution for the selected Project, the field will not appear in the dialog.

Create Test Execution

Project
Book Store

Summary*
Ad-hoc execution for STORE-27

Assignee
Mélanie Castro

Choose a user to assign the Test Execution

Fix Version/s
Select...

Test Environment
Select...

Revision
The system revision for the test execution

Execute Immediately

Create Cancel

If the **Execute Immediately** option is selected, you will be redirected to the Execute Test page after the test execution is created.

Configure Test Run Columns

Xray provides you 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 Column Layouts](#) page in Xray's Project Settings.

Some columns may be fixed so you won't be able to remove them from the table.

To configure columns for the Test Runs table,

Step 1: Go to the Test Runs table.

Step 2: Click on the **Columns**, select the dropdown that appears 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 **Done** 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 Comment** - The Test Run comment
- **TestRun Executed By** - The last user to execute the Test Run
- **TestRun Started** - The Test Run start date
- **TestRun Finished** - The Test Run finish date
- **TestRun Progress** - The Test Run progress

Restoring Columns to Default Configuration

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

Step 1: Open the Test Execution issue.

Step 2: Click **Columns** and select the dropdown that appears 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 Defaults** link above the columns list. The table refreshes with the default configured columns.

Change Columns Order

To reorder columns in the Test Runs table,

Step 1: Open the Test Execution issue.

Step 2: Hover over the desired column header.

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

Archive Test Runs

Xray provides you with a way to explicitly archive test runs one at a time or in bulk as well as way to check all the archived test runs for a specific test. For more information about Test Run Archive check [here](#).

Archive a Single Test Run

To archive a single Test Run,

Step 1: Click on the ... at the end of the row that contains the test run you wish to archive.

Step 2: Click on the **Archive** option that appears.

Step 3: Click the **Archive** button on the confirmation dialog.

Test Details

Test details Preconditions Test Sets Test Plans Test Runs

Execute in ...

Filters 10 Columns

Key	Summary	Fix versions	Revision	Status	Actions
<input type="checkbox"/> STORE-86	TE for STORE-27 - N002	1.0	1.0.0	TO DO	▶ ...
<input type="checkbox"/> STORE-85	TE for STORE-27 - N001	1.0		EXECUTING	▶ ...
<input type="checkbox"/> STORE-45	Iteration 1 - TP v1.0	1.0	1.0.0	PASSED	▶ Archive

Prev 1 Next Total 3 issues

Archive Test Run STORE-85

Are you sure you want to archive Test Run STORE-85 from Test STORE-27?

Archive Cancel

Bulk archive Test Runs

To archive multiple test runs at the same time,

Step 1: Selected the test runs you wish to archive by clicking on the **checkbox** at the left of each test run.

Step 2: Click on the bottom that appears at the top of the table and then **Archive**.

Step 3: Click the **Archive** button on the confirmation dialog.

Test Details

Test details Preconditions Test Sets Test Plans Test Runs

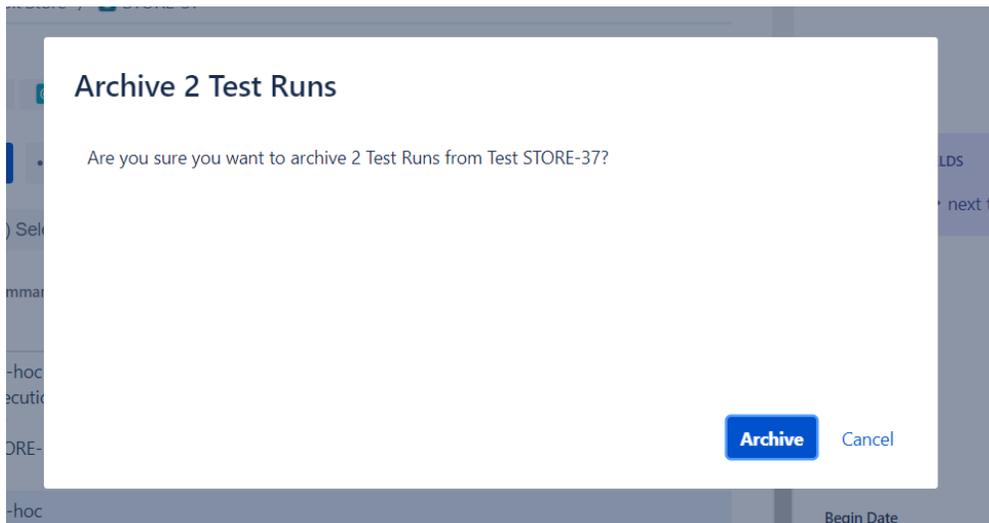
Execute in ...

(2) Selected Filters 10 Columns

Key	Archive	Fix versions	Revision	Status	Actions
<input checked="" type="checkbox"/> STORE-86	TE for STORE-27 - N002	1.0	1.0.0	TO DO	▶ ...
<input checked="" type="checkbox"/> STORE-85	TE for STORE-27 - N001	1.0		EXECUTING	▶ ...
<input type="checkbox"/> STORE-45	Iteration 1 - TP v1.0	1.0	1.0.0	PASSED	☰ ...

Prev 1 Next

Total 3 issues



View archived Test Runs

To view the archived test runs of a test,

Step 1: Click on the ... next to the Execute In button.

Step 2: Click on the **Show Archived...** option that appears. After this a dialog will appear that shows all archived test runs for the test you are on.

Test Details

Test details Preconditions Test Sets Test Plans Test Runs

Execute in

Show archived...

10

Columns

Key	Summary	Fix versions	Revision	Status	Actions
<input type="checkbox"/> STORE-86	TE for STORE-27 - N002	1.0	1.0.0	TO DO	▶ ...
<input type="checkbox"/> STORE-85	TE for STORE-27 - N001	1.0		EXECUTING	▶ ...
<input type="checkbox"/> STORE-45	Iteration 1 - TP v1.0	1.0	1.0.0	PASSED	☰ ...

Prev 1 Next

Total 3 issues

There are 2 actions that can be performed on the archived Test Runs:

1. **Restore** - By clicking on the ... at the end of the archived test run row and then **Restore**.
2. **Delete** - By clicking on the ... at the end of the archived test run row and then **Delete**.

Archived Test Runs

Filters 10

Key	Summary	Test Environment	Fix versions	Started	Finished	Executed By	Status	Actions
<input type="checkbox"/> STORE-86	TE for STORE-27 - N002	CHROME	1.0				TO DO	▶ ...

Prev 1 Next

Restore

Delete

Close

Both of these actions can be performed in bulk by selecting the test runs using the checkbox on the left then

Step 1: Selecting the archived test runs by clicking on the **checkbox** at the left of each test run.

Step 2: Click on the bottom that appears at the top of the table and then the desired action.

Step 3: Confirm the action.

The screenshot shows a web interface titled "Archived Test Runs". At the top left, there is a checkbox with a dropdown arrow, followed by a dark button labeled "(1) Selected" with a dropdown arrow, and a "Filters" dropdown. On the right, there is a "10" dropdown. Below this is a table with columns: "Key", "Test Environment", "Fix versions", "Started", "Finished", "Executed By", "Status", and "Actions". The first row is selected, with a checkbox checked. The "Key" column contains "STORE-86", "E-27 - N002", and "CHROME". The "Fix versions" column contains "1.0". The "Status" column contains a grey square and the text "TO DO". The "Actions" column contains three dots. A context menu is open over the first row, with "Delete" (trash icon) and "Restore" (refresh icon) options. At the bottom left, there are "Prev", "1", and "Next" navigation links. At the bottom right, it says "Total 1 issues" and a "Close" link.

The dialog box has a title "Delete the archived Test Runs". The main text reads: "Deleting the archived test runs will permanently remove the Test Runs, are you sure you want to delete the archived Test Runs?". At the bottom right, there are two buttons: a blue "Delete" button and a "Cancel" link.

Restore the archived Test Runs

Are you sure you want to restore the archived Test Runs?

Restore

Cancel