

Test Case Versioning



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Overview

Starting from version 7.0 of Xray Enterprise, users can create different versions of a Test case within the same Test issue. A Test case can evolve as the requirements change or improvements are made to the application under test. Although Xray logs test specification changes in the Jira history, it is not easy to revert to a specific test case version. With Test case versioning, you can now create multiple versions of the same Test allowing you to:

- Mark specific milestones of the Test with versions
- View all previous Test versions and revert to a particular version if needed.
- Have multiple active versions simultaneously, **even of different Test Types**, as you can execute them all independently.



Jira versions and Xray Test versioning

Please refer to this article: [TTT - Test Versioning](#) if you're wondering how to use Jira versions and Xray Test case versioning.

Creating Test Versions

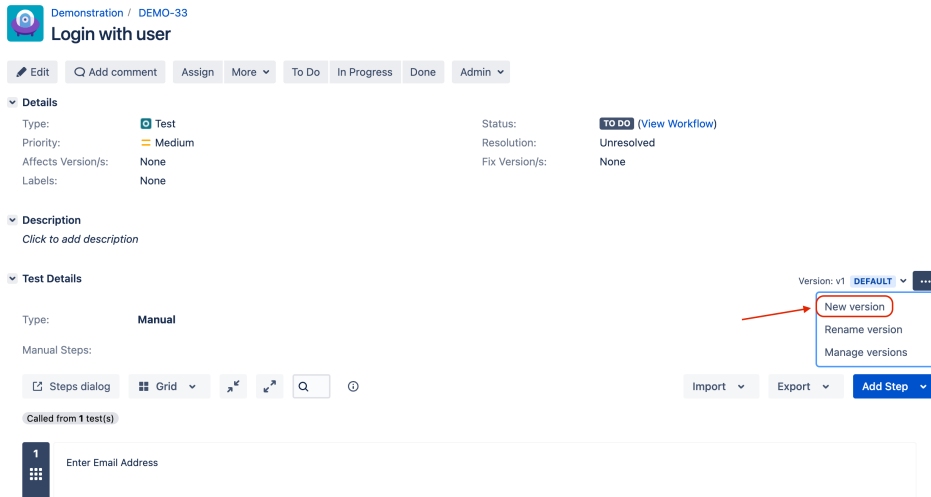
A Test Version is composed of the following fields on a Test issue:

- Test Specification:
 - Test Steps
 - Gherkin Steps
 - Scenario type
 - Generic definition
- Test Type
- Dataset
- Preconditions

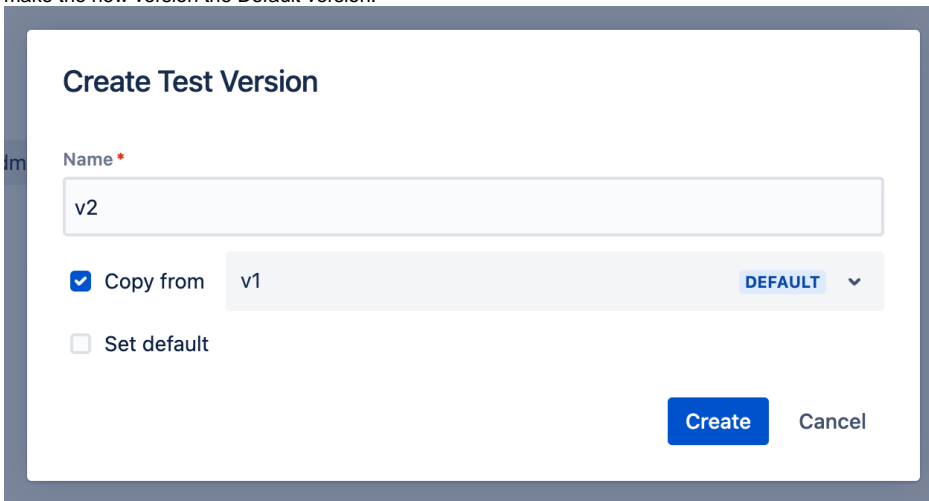
A Test Version is defined with a **name**. You can choose the name for the versions explicitly when creating new versions. Xray will try to generate the version name automatically based on the latest version if the name ends with a suffix that is recognized as a version number. Nevertheless, you can always change this auto-generated name. It is also possible to rename existing versions.

To create a new version:

1. Choose the "New version" option on the Actions menu next to the version number in the top right corner of the Test Details web panel on a Test issue.



2. A popup dialog will appear where you can set the version name and choose a base version to copy the definition from. You can also choose to make the new version the Default version.



3. When you press "Create", the new version is created and selected automatically on the Test Details web panel.

The Default Version

Every Test has a **default** version. The default version is the one Xray chooses when you create a new Test Run for the Test without specifying any particular version. When you create a Test, Xray automatically set the v1 as default.

The default version must be set manually by users. This can be done anytime using the **"Set Default"** option on the Actions menu next to the version selector.



To make sure you always run your Test with the version you aim, usually the most up-to-date one, you can manually mark a version as the default one. Note that there can be multiple versions active but only one can be marked the default one; therefore the "default" version is your preferred version.

Also, the default version is the one found on the Xray custom fields:

- Manual Test Steps
- Cucumber Scenario
- Cucumber Test Type
- Generic Test Definition
- Test Type
- Pre-Conditions association with a Test

The default version of a Test can not be deleted or archived.

To set the default version:

1. Choose the "Set default" option on the Actions menu next to the version number in the top right corner of the Test Details web panel on a Test issue.

Demonstration / DEMO-32

Login with user

Edit Add comment Assign More To Do In Progress Done Admin

Details

Type: Test Status: TO DO (View Workflow)

Priority: Medium Resolution: Unresolved

Affects Version/s: None Fix Version/s: None

Labels: None

Description

Click to add description

Test Details

Type: Manual

Manual Steps:

Steps dialog Grid

Import Export

Version: v2

- New version
- Rename version
- Archive version
- Set default version
- Manage versions

Called from 1 test(s)

1 Enter Email Address

2. The current version is set as default. A lozenge will appear next to the version name.

You can also set the default version through the "Manage Versions" dialog.

Viewing Test Versions

When Xray enterprise is installed, a dropdown selector field for the Test versions will be provided on the top right corner of the Test Details web panel on the Test issue. This dropdown provides all the Test versions as options and groups them into Active and Archived. The Test Type is also displayed for each version. The default version will be identified with a "default" lozenge.

When the Test issue is opened, the default version will be selected.

The Pre-Conditions web panel is also affected by the currently selected version as it only displays the Pre-Conditions associated with the selected version.

To switch between versions, you only need to choose a version from the versions dropdown selector:

1. Press the versions dropdown selector in the top right corner of the Test Details web panel on a Test issue.

Demonstration / DEMO-32

Strong password validation

Edit Add comment Assign More To Do In Progress Done Admin

Details

Type: Test Status: TO DO (View Workflow)

Priority: Medium Resolution: Unresolved

Affects Version/s: None Fix Version/s: None

Labels: None

Description

On the signup screen and change password screen, the password field should require a minimum of 8 characters with at least one number and one capital letter.

Test Details

Type: Manual

Manual Steps:

Steps dialog Grid

Version: v2

- VERSIONS
- v2 - Cucumber DEFAULT CUCUMBER
- v2 MANUAL
- ARCHIVED VERSIONS
- v1 MANUAL

1 Open the Change Password screen by selecting option "My Profile > Password"

2 Fill the password fields with data and press OK

3 CALL TEST DEMO-33 Login with user

2. Choose a particular version. The version specification will appear on the Test Details web panel. The Pre-Conditions web panel will also be updated with the Pre-Condition issues from the selected version.

Managing Test Versions

To better view and manage all versions of a Test, you can access a dialog with a list of all the versions in the Test. Here you can do specific actions like:

- Renaming versions
- Archiving/Unarchiving versions
- Set the Default version

To open the dialog:

1. Choose the "Manage Versions" option on the Actions menu next to the version number in the top right corner of the Test Details web panel on a Test issue.

The screenshot shows the 'Test Details' web panel for a test titled 'Strong password validation'. The panel includes a header with 'Demonstration / DEMO-32' and a 'Version: v2' dropdown. Below the header are tabs for 'Edit', 'Add comment', 'Assign', 'More', 'To Do', 'In Progress', 'Done', and 'Admin'. The 'Details' section shows the test's type as 'Test', priority as 'Medium', and status as 'TO DO (View Workflow)'. The 'Description' section contains the text: 'On the signup screen and change password screen, the password field should require a minimum of 8 characters with at least one number and one capital letter.' The 'Test Details' section shows the test type as 'Manual' and a 'Manual Steps' section with a 'Steps dialog' button. A red arrow points to the 'Manage versions' option in the 'Version: v2' dropdown menu.

2. The manage versions dialog will appear. Here you can view all the Test versions and perform actions on them. You can also filter archived versions.

The screenshot shows the 'Test Versions' dialog, which lists all versions of the test. It includes a 'Show archived versions' toggle and a table with columns for Version, Name, Test Type, Created, Updated, and Creator. The table lists three versions: v2 - Cucumber (DEFAULT), v2 (MANUAL), and v1 (ARCHIVED). A dropdown menu is open next to the 'v2' version, showing options: 'Set Default', 'Archive', and 'Delete'. The 'v1' version is marked as 'ARCHIVED' and 'MANUAL'. The dialog also has a 'Close' button at the bottom right.

Version	Name	Test Type	Created	Updated	Creator
3	v2 - Cucumber	DEFAULT	02/May/23 2:28 PM	02/May/23 2:32 PM	Adminis
2	v2	MANUAL	02/May/23 2:15 PM	02/May/23 2:16 PM	Administrator
1	v1	ARCHIVED	02/May/23 1:37 PM	02/May/23 2:13 PM	Administrator

Archiving Test Versions

It is also possible to archive (and unarchive) Test versions. **Archived versions can not be executed.** They exist just for the historical record.

All Test runs of archived versions will remain accessible as a copy of the Test specification is always made whenever a Test Run is started.

To archive a Test version:

1. Choose the "Archive Version" option on the Actions menu next to the version number in the top right corner of the Test Details web panel on a Test issue.

The screenshot shows the 'Test Details' web panel for a test issue titled 'Strong password validation'. The panel includes a top bar with buttons for 'Edit', 'Add comment', 'Assign', 'More', 'To Do', 'In Progress', 'Done', and 'Admin'. Below this, there are sections for 'Details', 'Description', and 'Test Details'. The 'Test Details' section shows the test type as 'Manual' and a list of manual steps. A red arrow points to the 'Archive version' option in the 'Actions' menu next to the version number 'v2'.

2. Once the version is archived, a lozenge will appear next to the version name, indicating the selected version is archived.

Version: v2 **ARCHIVED** ▼ ...



The **unarchive version** action is the opposite of archiving and can also be found on the same Actions menu next to the version number in the top right corner of the Test Details web panel on a Test issue.

You can also archive Test versions from the manage versions dialog.

Executing a Test version

You can create new executions of a specific version from the Test Runs web panel on the Test issue page.

To create a new Test Execution:

1. Press the "Execute in" dropdown button on the left toolbar in the Test Runs web panel.

The screenshot shows the 'Test Runs' web panel. The 'Execute in' dropdown menu is open, showing options for 'New Test Execution', 'Existing Test Execution', and 'Exploratory App'. The 'Existing Test Execution' option is selected, and a list of test versions is displayed. The versions are grouped into 'VERSIONS' and 'OTHER'. The 'VERSIONS' group shows 'v3' as the 'DEFAULT' version. The 'OTHER' group shows 'v2 - Cucumber' as the 'CUCUMBER' version. The 'v2 - Cucumber' version is selected, and the 'MANUAL' button is highlighted. The panel also shows a table of test runs with columns for 'Key', 'Fix Versi', 'By', 'Started', 'Finished', 'Defects', 'Test Version', and 'Status'. The first row shows 'DEMO-34' with 'v2' as the test version and 'TODO' as the status.

2. Choose a Test version to execute the Test.
3. Fill in the necessary fields on the Create issue dialog and press "Create"

To add a new Test Run into an existing Test Execution issue:

1. Press the "Execute in" dropdown button on the left toolbar in the Test Runs web panel.

Choose test execution to run DEMO-32

Test Executions: DEMO-34 x +

Start typing to get a list of possible matches or press down to select from a list of recent test executions

Test Version: v3

✓ Ex v2 - Cucumber CUCUMBER

v2 MANUAL

Add Cancel

You can also create new Test Runs and specify a Test version when you add Tests to a Test Execution through the [Test Execution](#) issue screen.

Delete a Test Version

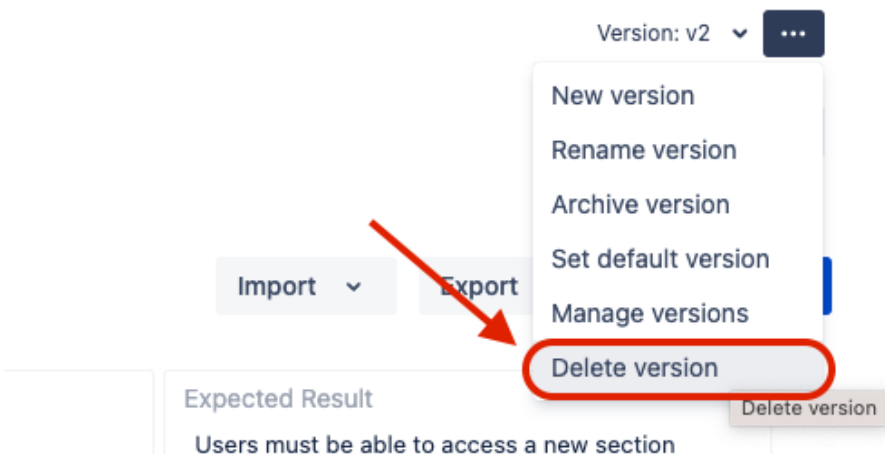
You can delete versions from a given Test using the Delete action provided by Xray in the Test details section. The Default version can not be deleted.



When deleting a Test Version, all Test Runs executed for that version will also be deleted from Jira.

To delete a given Test version from a Test:

1. Choose the "Delete Version" option on the Actions menu next to the version number in the top right corner of the Test Details web panel on a Test issue.



2. A popup confirmation dialog will be displayed. If the Test version being deleted has Test Runs, the number of Test Runs to be deleted will also be displayed to the user in the popup dialog.
3. After the user confirms, the version and any associated Test Runs will be deleted from Jira.

History Changes

All changes related to Test specification fields on Test versions are also logged to Jira History view. Nevertheless, Xray provides a new History view named "Test History" that allows you to view all changes of the Test Issue and also filter changes by Test version.

▼ Activity

All Comments Work Log History Test History Activity



All Versions ▼

All Versions

VERSIONS

v3

DEFAULT

v2 - Cucumber

v2

ARCHIVED VERSIONS

v1

Administrator made changes - 33 minutes ago
Manual Test Steps

Call Test parameters in Step 3 [\${email}
\${password} = \${New Password}]

Administrator made changes - 33 minutes ago
Test Version
Test Version

New Version "v3" [#4]
Default Test Version "v3" [#4]

Administrator made changes - 1 hour ago
Test Execution

Added new Test Execution DEMO-34 [DEMO-34]

Administrator made changes - 1 hour ago
Test Version

V2

Test Version "v2" was unarchived [#2]

Administrator made changes - Yesterday
Test Version

V2

Test Version "v2" was archived [#2]

Administrator made changes - 2 days ago
Test Version

V1

Test Version "v1" was archived [#1]

Administrator made changes - 2 days ago
Test Version
Name: "v3" [#3]

V2 - CUCUMBER

Name: "v2 - Cucumber" [#3]

Administrator made changes - 2 days ago
Cucumber Scenario

V2 - CUCUMBER

Given I navigate to the "User Profile" page
And I choose the "Password" tab on the left navigation menu
And I fill the password change input fields with Current Password:
<current_pwd> New Password: <new_pwd>
And when I press "Change Password"
Then the result is <is_valid>

Given I navigate to the "User Profile" page
And I choose the "Password" tab on the left navigation menu
And I fill the password change input fields with Current Password:
<current_pwd> New Password: <new_pwd>
And when I press "Change Password"
Then the result is <is_valid>