

# Xray 6.0.0 Release Notes

23 December 2021

The Xray team is proud to announce the release of **Xray 6.0.0**.

This version features **Modular Test Design**, creating Test Executions for all failed tests in a requirement and importing screenshots from Robot Framework reports.

## Test version

- [Upgrade Notes](#)
  - [Upgrading Xray to 6](#)
  - [Downgrading from Xray 6](#)
    - [Historical Coverage Gadget](#)
- [Release highlights](#)
  - [Modular Test Design](#)
  - [Quickly create executions for failed tests from a requirement issue](#)
  - [Importing screenshots from Robot Framework](#)
- [And more...](#)
  - [UI/UX Improvements](#)
  - [REST API](#)
  - [JQL functions](#)
  - [Configuration](#)
- [All New Features and Bug Fixes in this release](#)

## Upgrade Notes

### Upgrading Xray to 6

**If you are upgrading from a version lower than 3.2**, this implies that an upgrade task will run to pre-calculate historical data. This is a one-time action that will run in the background so that Xray is still available during the upgrade. A **re-index** operation of your Jira instance is required so that the internal data becomes searchable and usable by Xray.



Please be aware that this upgrade task will run immediately after updating Xray. As this operation can take some time and use a considerable amount of server resources, we suggest scheduling the upgrade of Xray outside of business hours. It is always possible to cancel the recalculation operation in the Xray configuration section Custom Fields Maintenance.

**If you are upgrading from v3.2.x or v3.3.x to v6**, you must recalculate data in the Xray configuration section Custom Fields. This recalculation is necessary because of the huge improvement in the amount of data that Xray needs to add to the table and to the Lucene indexes.



As this operation can take some time and use a considerable amount of server resources, we suggest scheduling the upgrade of Xray and the recalculation of the custom fields, outside of business hours.

### Downgrading from Xray 6

Downgrading from Xray 5.x.x to a previous version will have the following side-effects on Test Runs with a dataset:

- Test parameters will no longer be converted on the Test Run page, this includes Test Step definitions and Pre-Conditions;
- When loading a Test Run created on version 5.x.x, the merge/reset message will be displayed;
- When merging a Test Run created on version 5.x.x with the new Test Step definition, all Test Step results will be updated but the reset/merge message will still be displayed;
- A Test Run created on version 5.x.x with iterations will be displayed in a "flat mode." The iterations will no longer be available and all the Test Step results from each iteration will be presented on the Test Steps section;

Test Steps (4)					
1	Action	Data	Expected Result		
	Open the Change Password screen by Selecting the option "My Profile"	None	None		
	Actual Result	Comment	Defects	Evidence	Step Status
					PASS
1	Action	Data	Expected Result		
	Open the Change Password screen by Selecting the option "My Profile"	None	None		
	Actual Result	Comment	Defects	Evidence	Step Status
					TODO
2	Action	Data	Expected Result		
	Fill the username with Username and password with Password	None	A flag message should appear with operation result.		
	Actual Result	Comment	Defects	Evidence	Step Status
					PASS
3	Action	Data	Expected Result		
	Fill the username with Username and password with Password	None	A flag message should appear with operation result.		
	Actual Result	Comment	Defects	Evidence	Step Status
					TODO

- After the downgrade, the integrity checker will fail on "Check for invalid Mementos" for all Test Runs created on version 5.x.x. We recommend running the integrity checker before downgrading to get rid of possible invalid mementos.

Downgrading from Xray 6.x.x to a previous version will have the following side-effects:

- Test Issue:
  - A Call Test will be converted to a regular test step with a warning message

Test Details

Type: Manual

Dataset

Manual Steps:

Steps dialog

List

Import

Export

Add Step

1

Action

Try to log in with a user with no admin privileges.

Data

no\_admin:nc-admin

Expected Result

The user is logged in and the admin button is not visible

TSCF\_1635427743038 (Number Field)

None

Attachments (0)

2

Action

This step was calling test issue ZEP2-22 (possibly downgraded)

Data

None

Expected Result

None

TSCF\_1635427743038 (Number Field)

None

Attachments (0)

- Test Run Page
  - The Merge/Reset action will be displayed

The Test Step Custom Fields and Test Run Custom Fields of the type "User Picker" will have to be deleted in the project configuration as they are not supported. Following that, the Test Runs that are using a User Picker field will have to be merged or reset. This includes Test Runs that have the field for the Test Run itself and also Test Runs for Manual Tests where the Test Steps contained the User Picker field.

Downgrading from Xray 6.x to a version less than 3.2.0 implies that you must perform a re-index afterward. This is because from Xray 3.2.0 onwards, the content and format of what Xray indexes have changed.

### **Historical Coverage Gadget**

Some configuration parameters for this gadget were modified as a result of supporting multiple projects whenever using a saved filter as a source. It is possible that some users will get errors on the gadget after downgrading from 4.x. If this happens, please edit the configuration to ensure the gadget is configured properly.

## Release highlights

# Modular Test Design 😊

**Edit Steps**

1 Action: Open book store web site Data: https://www.bestbookstore.com Expected Result: The website is opened and the login page is displayed.

2 CALL TEST: BOOK-110 Login with user Data: \$Email = bruno.conde@getway.com \$password = gprfex3d030hd Expected Result: None Step State: PASSED

3 CALL TEST: BOOK-111 Add item to cart Data: \$Quantity = 1 \$Item = In Search of Lost Time Expected Result: None Step State: PASSED

4 CALL TEST: BOOK-111 Add item to cart Data: \$Quantity = 2 \$Item = The Great Gatsby Expected Result: None Step State: PASSED

5 Action: Press the Checkout button to start the checkout process. Data: None Expected Result: The checkout process is initiated asking the user the address details.

Actual Result: x Comment: Defects: Evidence: Step State: PASSED

6 Action: Enter Password Data: \$password = gprfex3d030hd Expected Result: None Step State: PASSED

7 Action: Click Sign In Data: None Expected Result: User is signed in and the main book store page is displayed. Step State: PASSED

8 Action: Add 1 books of In Search of Lost Time into the cart. Data: None Expected Result: After items are added, a confirmation message appears mentioning 1 items of In Search of Lost Time were added to the cart. Step State: EXECUTING

9 Action: Click on the cart icon located on the top right toolbar of the app. Data: None Expected Result: The shopping cart page is displayed containing all 1 items. Step State: TODO

10 Action: Add 1 books of The Great Gatsby into the cart. Data: None Expected Result: After items are added, a confirmation message appears mentioning 1 items of The Great Gatsby were added to the cart. Step State: TODO

Modular test design is a way of promoting test case reusability and composition across a large test repository. In order to design modular tests, you can create a test where some steps *call* or include other test cases. This prevents testers from having to write the same steps over and over again in different high-level tests.

Using a modular design approach, any test becomes a building block of more extensive test scenarios. Still, they can also be executed individually if needed.

A common use case for modular tests is end-to-end testing. End-to-end tests often need to pass through the same area or component of the application before asserting the final result. With modular test design, you can reuse the tests for these common areas or components.

Find out more about this feature [here](#).

## Quickly create executions for failed tests from a requirement issue

We have added a new option that allows users to create new Sub-Test Executions (or Test Executions) for tests in a specific status from the requirement issue screen.

A common usage scenario is to create a new Sub-Test Execution for all failed tests within a Story.

Learn more [here](#).

The screenshot displays a software interface with a modal window titled "Include Tests currently in the following statuses". The background interface includes sections for "Test Coverage", "Attachments", "Issue Links", and "Activity".

**Modal Window: Include Tests currently in the following statuses**

TEST COVERAGE FOR THE FOLLOWING ANALYSIS SCOPE  
**Scope:** Version; **Version:** None - latest execution; **Environment:** All Environments ▾ NOK

☐ All ☐ None

STATUS COUNTS:

- PASS (1)
- TODO (0)
- EXECUTING (0)
- FAIL (1)
- ABORTED (0)
- BLOCKED (0)
- PENDING (0)
- FAIL\_DISCARDABLE (0)
- FAILING\_BUT\_OK (0)

The statuses selected above will be used to filter the Tests that will be added to the Test Execution

☒ Sub Test Execution  
☒ Redirect to Test Execution

Create Cancel

**Background Interface Details:**

- Test Coverage:** Includes buttons for "Add Tests", "Execute", and a menu icon. Below is a table with columns "P" and "Status". Two rows are visible, both with "OPEN" status.
- Attachments:** A dashed box indicating where attachments can be added.
- Issue Links:** Labeled "tested by", it lists two items: "CALC-2 Subtract two numbers" and "CALC-42 Factorial of Integers", each with an "OPEN" button.
- Activity:** A section at the bottom of the interface.

## Importing screenshots from Robot Framework

Test Details

GENERIC

Custom Fields

Test Description




Test Type:

Generic

Definition:

Jogos.Confirm login popup is accessible

Results

Context	Output	Duration	Status
Open Browser	Opening browser 'Chrome' to base url 'https://www.jogossantacasa.pt/'.	5 sec	PASS
Set Window Size	-	112.000 ms	PASS
Capture Page Screenshot		472.000 ms	PASS
Page Should Contain Element	Current page contains element 'xpath://*[@id="info"]/div[2]/div/a[2]'.	12.000 ms	PASS
Sleep	Slept 5 seconds	5 sec	PASS
Click Link	Clicking link 'xpath://*[@id="info"]/div[2]/div/a[2]'.	60.000 ms	PASS
Capture Page Screenshot		377.000 ms	PASS
Sleep	Slept 5 seconds	5 sec	PASS
Select Frame	Element with locator 'xpath://*[@id="cboxLoadedContent"]/iframe' not found.	356.000 ms	FAIL
Capture Page Screenshot		339.000 ms	PASS

When executing Robot Framework tests, we can capture screenshots after executing certain steps and include them in the execution report.

These screenshots will now be imported by Xray and will be provided on the execution screen as evidence of the execution.

Learn more about this feature [here](#).

blocked URL

## And more...

### UI/UX Improvements

- [XRAY-2865](#): As a user, I can view the user's display name in the Test Runs report

### REST API

- [XRAY-3692](#): Test repository REST API folder call

## JQL functions






























- [XRAY-2552](#): As a user, I can filter obtain a list of Tests based on the Test Run fields from a Test Execution using a JQL function















## Configuration

- [XRAY-8073](#): The Test Evolution gadget limit should be defined by the admins

blocked URL

## All New Features and Bug Fixes in this release

Key	Summary	T	Created	P	Status	Resolution
<a href="#">XRAY-8073</a>	The Test Evolution gadget limit should be defined by the admins		Sep 20, 2021		SHIPPED	Done
<a href="#">XRAY-2552</a>	As a user, I can filter obtain a list of Tests based on the Test Run fields from a Test Execution using a JQL function		Mar 12, 2018		SHIPPED	Done
<a href="#">XRAY-2865</a>	As an user I can view the user's display name in the Test Runs report		Jun 22, 2018		SHIPPED	Done
<a href="#">XRAY-4524</a>	As a user, I can create Sub Test Execution for the Tests with specific status from the Requirement issue		Oct 01, 2019		SHIPPED	Done
<a href="#">XRAY-3692</a>	Test repository REST API folder call		Feb 05, 2019		SHIPPED	Done
<a href="#">XRAY-2309</a>	As a user, I should be able to import the Robot Framework's screenshots to an execution		Dec 11, 2017		SHIPPED	Done
<a href="#">XRAY-4364</a>	Modular Tests		Aug 07, 2019		SHIPPED	Done
<a href="#">XRAY-6334</a>	When searching for Test issues using the "Test Repository Path" selector, deeper level paths can't be properly viewed		Aug 13, 2020		CLOSED	Fixed
<a href="#">XRAY-4786</a>	In the Test Repository, when searching for Tests using a label with special characters (&,#,...) an exception is thrown		Dec 10, 2019		CLOSED	Fixed
<a href="#">XRAY-8198</a>	Xray Docgen image loader does not work		Dec 13, 2021		CLOSED	Fixed
<a href="#">XRAY-8181</a>	Reform the Xray internal endpoint that is being used to show the dialog to add evidences to the Test Step Results		Dec 02, 2021		CLOSED	Fixed
<a href="#">XRAY-8113</a>	In the Test Repository, when using special characters in the filter option "Contains Text" the results displayed are not correct		Oct 13, 2021		CLOSED	Fixed
<a href="#">XRAY-8168</a>	In Traceability report - the Filters dropdown is underlap		Nov 16, 2021		CLOSED	Fixed
<a href="#">XRAY-7825</a>	In the Overall and Historical Requirement Coverage Report, the filter panel is overlapped by the graph.		Jun 24, 2021		CLOSED	Fixed
<a href="#">XRAY-7168</a>	The scroll bar of the Cucumber scenario field is located above the context menu.		Feb 18, 2021		CLOSED	Fixed
<a href="#">XRAY-7580</a>	When importing a feature file with a Requirement Key the link is not created if there is no prefix set		Apr 27, 2021		CLOSED	Fixed
<a href="#">XRAY-7888</a>	Folders with special characters are being duplicated when adding/creating a test		Jul 08, 2021		CLOSED	Fixed
<a href="#">XRAY-7928</a>	Moving Tests to folders directly in the Test Repository is not being logged on the History tab.		Jul 22, 2021		CLOSED	Fixed

XRAY-7203	When editing a TestStatus, its name should be trimmed		Feb 23, 2021		CLOSED	Fixed
XRAY-6950	Search parameter of TestRunStatus JQL is case sensitive and it shouldn't be		Jan 11, 2021		CLOSED	Fixed
XRAY-6702	An exception is thrown in the Test Repository, if trying to filter Tests by a component with special chars (&)		Nov 03, 2020		CLOSED	Fixed
XRAY-6731	When doing a bundle results' import, if the Zip file has an empty file an error is thrown		Nov 09, 2020		CLOSED	Fixed
XRAY-6641	When working with Cucumber Tests, the Gherkin auto-complete may not work due to extra spaces on the steps		Oct 21, 2020		CLOSED	Fixed
XRAY-2205	Add comment field is missing in execution details page		Nov 03, 2017		CLOSED	Fixed
XRAY-2747	Test Repository path does not support all locales/scripts		May 07, 2018		CLOSED	Fixed

25 issues