

Xray 4.2.0 Release Notes

9 October 2020

The Xray team is proud to announce the release of **Xray 4.2.0**.

This version features support for xUnit XML reports, updating existing Test cases using the Test Case Importer, configuring the columns on the Test Runs List gadget, Document Generator improvements, and performance improvements when executing manual tests with lots of steps.

Discover the new features below. 😊

Get the latest version

- [Upgrade Notes](#)
 - [Upgrading Xray to 4.2.x](#)
 - [Downgrading from Xray 4.2.x](#)
 - [Historical Coverage Gadget](#)
- [Release highlights](#)
 - [Updating Issues using the Test Case Importer](#)
 - [Configurable Test Runs List Gadget Columns](#)
 - [Support for xUnit test results](#)
 - [Document Generator Improvements](#)
 - [Performance Improvements](#)
- [And more...](#)
 - [Test Step/Test Run Custom Fields](#)
 - [User Interface](#)
 - [Reports and Gadgets](#)
- [Just one more, yet important, thing...](#)
- [All New Features and Bug Fixes in this release](#)

Upgrade Notes

Upgrading Xray to 4.2.x

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 v4.2, 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 4.2.x

The Test Step Custom Fields and Test Run Custom Fields of 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 4.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

Updating Issues using the Test Case Importer 😊

Starting from this version, it is now possible to update existing Tests when importing Test cases from CSV fields.

You just need to map the **Issue Key** field, with a key column in the CSV file and Xray will update the existing Test cases in Jira instead of creating new Test issues.

When updating Test Cases:

- Manual Test Steps will be **overwritten** with the new Step specification as declared in the CSV file (including any Step Step custom fields)
- All other issue fields (Native and Custom Fields), will be updated according to the same rules of the [Jira's native CSV importer](#).

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

Fields

i You have selected **Issue Key** mapping. Please note that importer will update existing issues matching the Issue Key from the CSV file.

External Field		Xray Field	Map Field Value
TCID (e.g. 1)	→	Test Case Identifier	<input type="checkbox"/>
Test Summary (e.g. Validation Test - Validate the ...)	→	Summary	<input type="checkbox"/>
Description (e.g. Test environment coverage: ...)	→	Description	<input type="checkbox"/>
Priority (e.g. Highest)	→	Priority	<input type="checkbox"/>
Labels (e.g. DBoperations)	→	Labels	<input type="checkbox"/>
Action (e.g. With an +Xray Version prior to ...)	→	Action	<input type="checkbox"/>
Data (e.g. {code:java} select ps.* from ...)	→	Data	<input type="checkbox"/>
Result (e.g. * Verify that on the entry wit ...)	→	Expected Result	<input type="checkbox"/>
Issue Key (e.g. UPIC-1)	→	Issue Key	<input type="checkbox"/>
User Picker (e.g. joaquim)	→	Don't map this field	<input type="checkbox"/>

Configurable Test Runs List Gadget Columns

Test Runs List: Bookstore Test Execs

Key	Summary	Component/s	Test Execution Key	Test Execution Fix Version/s	Test Execution Revision	TestRun Executed By	Status
BOOK-28	Test a visitor can filter the search result	Search	BOOK-125	0.1 (beta)	564ftdgsrf	Bruno Conde	PASS
BOOK-16	Test a logged in visitor can edit the account details	Account	BOOK-125	0.1 (beta)	564ftdgsrf	Bruno Conde	PASS
BOOK-14	Test visitors can login to Bookstore Website	Account	BOOK-125	0.1 (beta)	564ftdgsrf	Bruno Conde	PASS
BOOK-23	Test visitors can add books to their shopping basket		BOOK-31	1.0	65d64uyg7		
BOOK-36	Manual test of strong password validation	Account	BOOK-31	1.0	65d64uyg7		
BOOK-37	Manual test of password reset procedure	Account	BOOK-31	1.0	65d64uyg7		
BOOK-28	Test a visitor can filter the search result	Search	BOOK-31	1.0	65d64uyg7		

Showing 21 to 27 of 27 entries

Test Component

Select Project

All

Choose the project component to analyze

Columns to display

Key

Summary

Component/s

Test Execution Key

Test Execution Fix Version/s

Test Execution Revision

TestRun Executed By

Drag-drop to reorder the fields.

TestRun

TestRun Assignee

TestRun Comment

TestRun Started

TestRun Finished

TestRunStatus

Select the Test Run Status

Test Priority:

Test Run Status:

You are now able to configure the columns on the Test Runs List Gadget. You can add additional columns as well as remove any existing "default" columns.

The available fields are:

- All Navigable Test issue fields (eg. Summary, Key, Component, Priority, etc.)
- Test Execution Fields
 - Key
 - Fix Version
 - Revision
 - Test Environments
- Dedicated Test Run Fields
 - Assignee
 - Executed By
 - Comment
 - Start Date
 - Finish Date
- Test Run Custom Fields

Learn more [here](#).

Support for xUnit test results

[xUnit.net](#) is a technology for unit and integration testing C#, F#, VB.NET, and other .NET languages. [xUnit.net](#) works with ReSharper, CodeRush, TestDriven.NET, and Xamarin. It is part of the [.NET Foundation](#).

Xray now supports xUnit execution results. You can send directly the XML report generated by xUnit into Xray, either using the [REST API](#) or the user interface.

Learn more [here](#).
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Document Generator Improvements

The screenshot displays the Jira Test Plan interface for 'BOOK-30'. The top right corner features a 'Doc. Generator' button and a 'Switch to Flat View' option. The left sidebar shows a folder structure with 'Shopping Basket' selected, and a 'Doc. Generator' button highlighted in the context menu. The main area shows a list of test cases, including 'BOOK-25', 'BOOK-24', 'BOOK-23', and 'BOOK-22'. A modal window titled 'Document Generator Templates' is open, showing a list of templates with columns for 'Active Scope', 'Entities', 'Last Modified', and 'Operations'. The 'Doc. Generator' button is also highlighted in the left sidebar under the 'Shopping Basket' folder.

You can now export Tests from within the **Test Repository** or the **Test Plan board** using the Document Generator.

Context actions are provided on the folders and in bulk selections so that you can easily select and export the Tests you need.

When configuring templates, you also select the **target** Xray entities as well as the **scopes/screens** where these templates can be used.

Document Generator now supports **Test Run activity logs**.

Jira administrators can also enable/disable the Document Generator feature.

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

Performance Improvements

As part of our effort for continuous performance improvements, we have boosted the **execution page load times**, especially for manual Tests with more than 100 steps. These performance improvements can reach **80%**.

Improving performance is an ongoing effort for us, so you can expect additional enhancements to come ahead.

Please take a look at the resources, [Usage tips to improve performance](#), containing setup, and "best practices" for optimizing Xray performance.



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And more...

Test Step/Test Run Custom Fields

- [XRAY-6332](#): Jira admins must be able to configure if project admins can configure Test Step and Test Run custom fields in Xray
- [XRAY-5796](#): Xray must support the user picker field types for Test Step custom fields

User Interface

- [XRAY-5990](#): Use folder picker to edit test repository path custom field
- [XRAY-4777](#): The Test execution "Last updated time" should be updated whenever tests/test steps are executed
- [XRAY-2242](#): Ad-hoc Test Execution should contain not only the issue key but also the summary of the Test issue

Reports and Gadgets

- [XRAY-4442](#): As a user, I can filter Test Runs on the Test Runs List gadget/report by currently logged in user

JQL

- [XRAY-6152](#): As a user, I can search for Manual Test Steps text using JQL
- [XRAY-3734](#): The JQLs testsWithNoTestSet and testsWithoutTestExecution should take a filter as an argument
- [XRAY-4719](#): The JQL manualTestsWithoutSteps() should take a filter as an argument

REST API

- [XRAY-5627](#): As a REST API user, I can set Test Run custom field values when importing execution results using the Xray JSON format

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Just one more, yet important, thing...

Documentation is always important and sometimes you may miss it. We added a set of relevant articles to our already extensive documentation.






In this release, you may find new articles to help you [take advantage of xUnit XML reports](#). We also created a section for API testing and included a tutorial for Postman.

Here's a sum-up of all the relevant articles that we've added:





































- **Tutorials with automation tools & frameworks**
 - [Integration with xUnit-based test runners](#)
 - [Taking advantage of xUnit XML reports](#)
 - [TTT: Examples using xUnit](#)
 - [Testing using xUnit in C#](#)
 - [TTT: API Testing](#)
 - [Developing and testing APIs using Postman](#)
- **Integration with other Jira apps**
 - [Integration with Cprime Power Scripts, Power Custom Fields, and Power Actions](#)
- **Integrations from the community**
 - [Integrations from the community and other products](#)

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All New Features and Bug Fixes in this release

Key	Summary	T	Created	P	Status	Resolution
XRAY-5141	The execution page is very slow loading 100 steps and above		Mar 02, 2020		SHIPPED	Done
XRAY-4442	As a user, I can filter Test Runs on the Test Runs List gadget/report by current logged in user		Sep 09, 2019		SHIPPED	Done
XRAY-6350	As system, Xray must expose test run activity logs to Document Generator		Aug 19, 2020		SHIPPED	Done
XRAY-6332	Jira admins must be able to configure if project admins can configure Test Step and Test Run custom fields in Xray		Aug 12, 2020		SHIPPED	Done
XRAY-6285	As Jira admin, I can enable/disable Document Generator		Aug 03, 2020		SHIPPED	Done

XRAY-6152	As a user I can search for Manual Test Steps text using JQL		Jul 15, 2020		SHIPPED	Done
XRAY-4777	The Test execution "Last updated time" should be updated whenever tests/test steps are executed		Dec 09, 2019		SHIPPED	Done
XRAY-6012	In the Associate Pre-Condition to Test screen, the message under the search box field should be rectified		Jul 02, 2020		SHIPPED	Done
XRAY-5990	Use folder picker to edit test repository path custom field		Jun 26, 2020		SHIPPED	Done
XRAY-3285	As a user, I can choose the columns to show in the Test Runs List gadget		Oct 12, 2018		SHIPPED	Done
XRAY-2242	Ad-hoc Test Execution should contain not only issue key but also summary of Test issue		Nov 15, 2017		SHIPPED	Done
XRAY-1592	As a user, I can choose to update existing Tests, whenever using the Test Case Importer		Apr 16, 2017		SHIPPED	Done
XRAY-6329	Replace TestRunStatus custom field value storage from Jira API into an Xray-owned structure		Aug 12, 2020		SHIPPED	Done
XRAY-3734	The JQLs testsWithNoTestSet and testsWithoutTestExecution should take a filter as an argument.		Feb 14, 2019		SHIPPED	Done
XRAY-2462	As system, I can import xUnit results using the UI and the REST API		Feb 11, 2018		SHIPPED	Done
XRAY-4719	The JQL manualTestsWithoutSteps() should take a filter as an argument.		Nov 21, 2019		SHIPPED	Done
XRAY-6363	As a User,I can define the Xray entity where the template will be available		Aug 21, 2020		SHIPPED	Done
XRAY-6361	As a User, I can export a selection of tests from a folder on Xray Test Repository using the Doc. Generator		Aug 21, 2020		SHIPPED	Done
XRAY-6360	As a User, I can export all tests from a folder on Xray Test Repository using Doc. Generator		Aug 21, 2020		SHIPPED	Done
XRAY-6359	As a User, I can export a selection of tests from a folder on Test Plan Board using Doc. Generator		Aug 21, 2020		SHIPPED	Done
XRAY-6358	As a User, I can export all tests from a folder on Test Plan Board using Doc. Generator		Aug 21, 2020		SHIPPED	Done
XRAY-6356	As a User, I can export Test Plan using the Doc. Generator directly from the Test Plan Board.		Aug 21, 2020		SHIPPED	Done
XRAY-5627	As a REST API user, I can set Test Run custom field values when importing execution results using the Xray JSON format		May 11, 2020		SHIPPED	Done
XRAY-5796	Xray must support the user picker field types for Test Step and Test Run custom fields		May 29, 2020		SHIPPED	Done
XRAY-5752	Test Repository Path is not appering in Confluence's Jira Macros		May 25, 2020		CLOSED	Done
XRAY-5389	Users without Test Repository edit permissions lose Test Rep. View Options		Apr 06, 2020		CLOSED	Done
XRAY-4611	Cannot access create test execution button on minimum resolution		Oct 21, 2019		CLOSED	Done
XRAY-4329	Overall Requirements Coverage gadget does not allow group by custom fields		Aug 01, 2019		CLOSED	Done
XRAY-6337	When iterating from the test runs to obtain the test steps information, the images are not being rendered		Aug 14, 2020		CLOSED	Done
XRAY-5942	The "Action" button disappears when editing the Xray settings (Workflow Status)		Jun 22, 2020		CLOSED	Done
XRAY-3875	Creating a second test in the Test Set issue type glitches the screen		Mar 28, 2019		CLOSED	Fixed
XRAY-3761	Duplicated Test in Test Plan Board		Feb 25, 2019		CLOSED	Done

XRAY-3422	The Test Description is not correctly rendered, in the Execution Details when using the JEditor		Nov 20, 2018		CLOSED	Done
XRAY-3389	In Cucumber scenarios, the highlight of the quoted text is not working correctly		Nov 09, 2018		CLOSED	Done
XRAY-6522	Test Run activity is not being properly updated when importing execution results to an existing Test Execution when the overall status remains the same as the last execution		Oct 02, 2020		CLOSED	Done
XRAY-6501	Typo in Gadget Tests Evolution (German): the German translation of "current week" should be "Diese Woche" with a capital "W" of "Woche".		Sep 30, 2020		CLOSED	Done
XRAY-6479	Stored XSS at Xray Server in Test Execution issues by Assignee name		Sep 25, 2020		CLOSED	Done
XRAY-6477	XSS in Issue Type Mapping configuration through Issue linking		Sep 25, 2020		CLOSED	Done
XRAY-6475	Stored XSS on XRay Server on XRay Report via "Saved Search"		Sep 25, 2020		CLOSED	Done
XRAY-6474	Stored XSS at Xray Server in dashboard by Tests List Gadget		Sep 25, 2020		CLOSED	Done
XRAY-6473	Stored XSS in Tests List Gadget		Sep 25, 2020		CLOSED	Done
XRAY-6472	Stored XSS in Test Plan Board & Test Repository By "JQL Search"		Sep 25, 2020		CLOSED	Done
XRAY-6468	Support migrating Zephyr 5.6.x		Sep 24, 2020		CLOSED	Done
XRAY-6459	UI problems on JIRA 8.12.x		Sep 22, 2020		CLOSED	Done
XRAY-6444	As a user, I can't import Test Step attachments using Xray Test Case Importer		Sep 18, 2020		CLOSED	Done
XRAY-6429	Generic action notifications - Wrong German translations		Sep 09, 2020		CLOSED	Done
XRAY-2854	Error when using a status with minus sign in the name		Jun 18, 2018		CLOSED	Done
XRAY-2518	Performance problem using the JQL function testsWithNoTestSet()		Mar 01, 2018		CLOSED	Done
XRAY-6256	When using Custom Test statuses and Custom Step Statuses, updates via REST may fail with error 500		Jul 27, 2020		CLOSED	Done
XRAY-6267	When importing TestNG results, labels are not being created on updated Tests		Jul 29, 2020		CLOSED	Done

50 issues