

Importing Manual Tests using Test Case Importer

You can use the Xray's Test Case Importer (a Jira Importer Plugin extension) to import Manual Tests from a CSV source file.

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See and try some examples by yourself

Please see a tutorial with working [Examples using Test Case Importer](#), showcasing different scenarios, which you can download and try by yourself.

Before importing

The CSV source file must follow some simple rules.

You can name the fields as you wish since they are going to be mapped during the importation process, but there are three mandatory fields:

1. **Test Case Identifier** – this is the field used to identify which lines belongs to which test case. In the example below, it is the TCID column.
2. **Summary** – this field is mandatory since Jira doesn't allow you to create an issue without a summary. In the example below, it is the Test Summary column.
3. **Action** – this field is mapped as the Step field of a Manual Test Step. In the example below, it is the Action column.

Here is an example of test cases structure:

TCID	Test Summary	Description	Component	Action	Data	Result	Max number of executions
1	Test sum of two positive numbers	Sum of two positive, integer numbers	UI	press 1		1	1
1				press key	+	+	
1				press 2		2	
1				press key	=	3	1
2	Test multiplication of two positive numbers	Multiplication of two positive, integer numbers	UI	press 2		2	
2				press key	+	+	
2				press 3		3	
2				press key	=	6	2
3	Turn on calculator	Ability to turn on calculator	Core	press ON		calculator turned on	3
4	Turn off calculator	Ability to turn off calculator	Core	press OFF		calculator turned off	1

This is how the CSV file looks like once the test cases above are exported (download it from the downloadable examples section):

```

1 TCID;Test Summary;Description;Component;Action;Data;Result;Max number of executions
2 1;Test sum of two positive numbers;"Sum of two positive, integer numbers";UI;press 1;;1;1
3 1;;;press key;+;;
4 1;;;press 2;;2;
5 1;;;press key;=;3;1
6 2;Test multiplication of two positive numbers;"Multiplication of two positive; integer numbers";UI;press 2;;2;
7 2;;;press key;+;;
8 2;;;press 3;;3;
9 2;;;press key;=;6;2
10 3;Turn on calculator;Ability to turn on calculator;Core;press ON;;calculator turned on;3
11 4;Turn off calculator;Ability to turn off calculator;Core;press OFF;;calculator turned off;1

```



CSV column separator

If you choose the “,” (comma) as the CSV column separator, then you must use quotation marks around any field that contains commas.



Fields with line breaks

If you need to use newlines within a field, for example, in the issue description, then you need to quote the field.



Xray issue types and respective screens

Please make sure your project has Xray's "Test" issue type and its associated screens are configured properly. This is done automatically if you followed the [Quick Setup](#) instructions.

If you added Xray's issue types by hand to your project or if you changed the screens/screen scheme configurations, then you may need to perform additional configuration operations.

More info on [Custom Fields and Screen Configuration](#) and [Configuring Xray with an Existing Project](#)

Downloadable examples

Please check multiple examples in the tutorial [Examples using Test Case Importer](#) (as well as code in GitHub).

Importing Test Cases

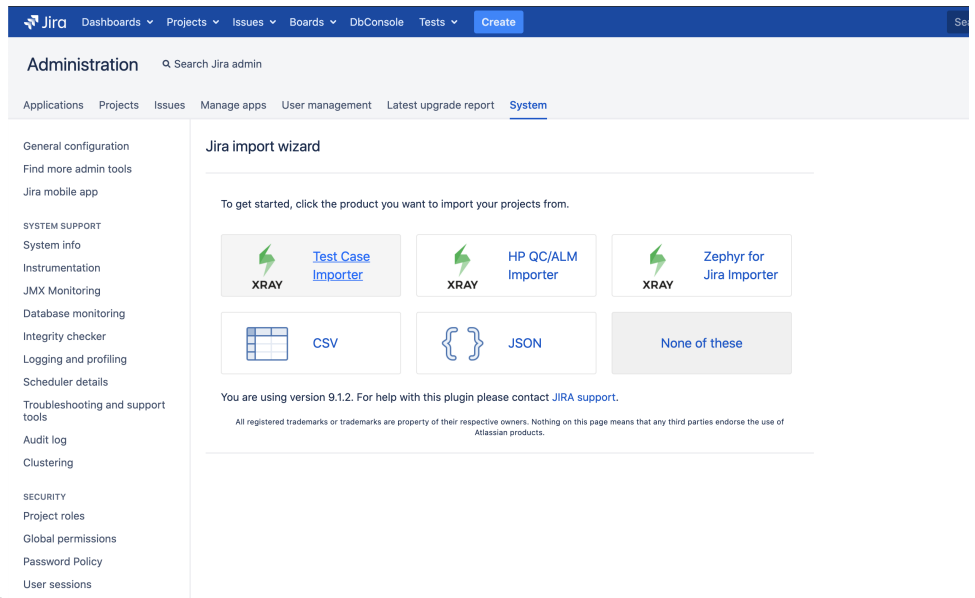
Xray provides the ability to import multiple test cases at once either as a standard user or as a JIRA administrator; there is no limit on the number of tests that can be imported.

As a JIRA Administrator

For demonstration purposes, the CSV example file from the previous section is used.

To complete the importation process, follow the steps below.

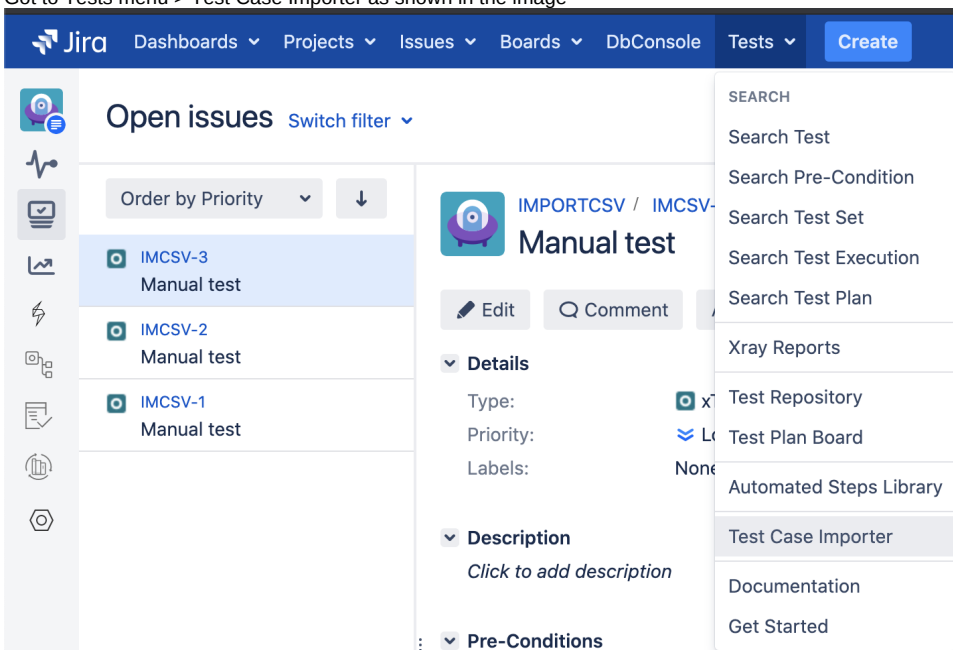
1. Log in with an administrator account.
2. Go to System > Import and Export > External System Import.



3. Select the Xray **Test Case Importer**.
4. Follow the Setup Page section instructions

As a Non-Administrator JIRA user

1. Log in with a non-administrator account.
2. Got to Tests menu > Test Case Importer as shown in the image



3. Select the **Test Case Importer** menu item
4. Follow the Setup Page section instructions



Permissions

Only users that have the **Bulk Change** permission will have this option available. The configuration can be found in the *Jira Administration / System*.

Additionally the user will only be able to import data into projects where he has the **Create Issues** permission.

Setup Page

Provide the basic settings for the importation process.

Test Case Importer Setup

Setup

CSV Source File:

CSV Delimiter: CSV & other files

CSV Encoding: UTF-8, UTF-16, etc.

File Encoding: UTF-8, UTF-16, etc.

Hierarchical Test Organization: ☐ **Create Folders**
By selecting this option, the imported Test(s) will be organized into new folders, whenever the specified folder path does not exist in the Test Repository.

☐ Use an existing configuration file
If you select this option, the configuration file will be used for all imports. You can use the configuration file from a previous import.

For more info: Click on the Test Case Manual link in the sidebar.

Next **Back**

- The **CSV Delimiter** field is the column delimiter used in your CSV source file.
- The file encoding used in the CSV source file; this is especially important when the file contains non-ASCII characters. The supported encodings can be seen [here](#).
- Optionally, you can use the settings from a previous importation.

Project Page

- Select the Xray project where you want your Manual Test cases to be imported.
- Set the Date formats that will be used for all Jira custom fields and also to the Manual Test Step Custom fields of type "Date picker" and "DateTime picker".
- Check the Hierarchical Test Organization - Create Folders option to allow mapping the imported Manual Test cases Test Repository Path on the Field Mapping Page

Project

Import to Project*

Date format
(e.g. dd/MMM/yy)
Please specify the format that dates are stored in the CSV file. Please use syntax valid for [SimpleDateFormat](#).

Date time format
(e.g. dd/MMM/yy h:mm a)
Please specify the format that dates are stored in the CSV file. Please use syntax valid for [SimpleDateFormat](#).

Hierarchical Test Organization ☐ **Create Folders**
By selecting this option, the imported Test(s) will be organized into new folders, whenever the specified folder path does not exist in the Test Repository.

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Field Mapping Page

Map the fields from your CSV to Jira and Xray fields

Fields

External Field		Xray Field	Map Field Value
TCID (e.g. 1)	→	Test Case Identifier	☐
Summary (e.g. Test 1 for user story WEB-1)	→	Summary	☐
Priority (e.g. High)	→	Priority	☐
Action (e.g. Go to login page)	→	Action	☐
Data (e.g. peter:pass123)	→	Data	☐
Expected result (e.g. User succesfully logged in)	→	Expected Result	☐
Limit Date (e.g. 06-Jun-20)	→	lim	☐
Max number of executions (e.g. 1)	→	Test Step Custom Fields Limit date	☐

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It is mandatory to map at least three fields:

- 1. **Test Case Identifier** (located under **Manual Test Step fields**). In this example, this field is mapped to the TCID column from the CSV file.
- 2. **Summary** (Located under **Jira fields**) In this example, this field is mapped to the Test Summary column from the CSV file.
- 3. **Action** (located under **Manual Test Step fields**) In this example this field is mapped to the Action column from the CSV file.

The fields that are not mapped will not be imported to the test case.



Custom field mapping

Only custom fields that have the issue type **Test** selected as one of the applicable issue types will be available for mapping.

Default Configuration Scheme for Team ID

Default configuration scheme generated by JIRA

Applicable contexts for scheme: [Edit Configuration](#)

Issue type(s): [Edit](#)



Default Value: [Edit Default Value](#)

Available **custom fields** for import:

- Checkboxes
- Labels
- Number fields
- Radio buttons
- Select lists (single choice and cascading)
- Text field
- URL field
- User picker

Note: Only "single-value" custom fields are supported. "Select List (cascading)" custom fields behave as a single-value field; in that case, you have to specify the value in the format "parent -> child" as [mentioned](#) also for Jira's native CSV importer.

Value Mapping Page

Map the CSV column values. In the example above, the Map Field Value checkbox is selected for Priority, so those values are going to be mapped.

Map values

Setup

Project

Fields

Values

Values

CSV Field	Value from Importer	Target value in JIRA
Test Priority (Imported as Priority)	high	→ High
	very high	→ Map as is

Begin Import

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Now just click Begin Import and Xray Test Case Importer will import the manual test cases to the selected project.

✓

1 projects and 2 issues imported successfully!

What now?

You can [download a detailed log](#) of this import. You can also [save the configuration](#) for future use.

[Import another project.](#)

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The importation process is complete. A configuration file can be saved to import other manual test cases in the future.

Special fields

Attachments

It is possible to attach files to **Test** and to **Test Steps**.

Attach Steps

(e.g. image.png file:///txt_folder/t ...)



Step Attachments



Attach

(e.g. image.png file:///txt_folder/t ...)



Attachment



Attachments

The attachment may be referred by name (in this case the file:// protocol is assumed), by "file://" or "http(s)://". Multiple files may be specified within one CSV column; for this, the attachments must be delimited by space.

```
1 TCID,Test Summary,Test Priority,Component,Component,Action,Data,Result,myNumberField,Issue Type,Attach Steps,Attach
2 1,Test 1 for user story WEB-1,high,User Interface,Business Layer,Go to login page,,,Test,image.png file:///txt_folder/test.txt
3 1,,,,,Enter username,peter,,,,,
4 1,,,,,Enter password,pwd123,,123,,,
5 1,,,,,Click login button,,User successfully logged in,,,,,
6 2,Test 2 for user story WEB-1,very high,User Interface,Business Layer,Go to login page,,,Test,https://address/error.log,image.
7 2,,,,,Enter username,peter,,,,,
8 2,,,,,Enter password,abc123,,55,,,
9 2,,,,,Click login button,,User logged in fails with message,,,,,
--
```

Note: For file protocol, only files in the "<JIRA_DATA_HOME>/import/attachments" folder will be imported.

Test Repository folder

If you want to add the Tests to some folder within the Test Repository, you can specify a column having the Test Repository Path.

Folders and their respective sub-folders must be delimited by "/", as shown in the following example:

TCID	Test Summary	Description	Component	Action	Data	Result	Test Repository Path
1	Test sum of two positive numbers	Sum of two positive, integer numbers	UI	press 1			1 components
1				press key	+	+	
1				press 2			2
1				press key	=		3
2	Test multiplication of two positive numbers	Multiplication of two positive, integer numbers	UI	press 2			2 components/compA
2				press key	+	+	
2				press 3			3
2				press key	=		6
3	Turn on calculator	Ability to turn on calculator	Core	press ON		calculator turned on	
4	Turn off calculator	Ability to turn off calculator	Core	press OFF		calculator turned off	

To create new folders and sub-folders, in case they do not exist in the Test Repository, or map the imported Manual tests to folders and sub-folders that already exist in the Test Repository, you must select the option 'Create Folders' in the Setup page of the Test Case importer.



Please note

To have this option available, you must be able to, at least, access the target project (i.e., browse permission), the [Hierarchical Test Organization](#) must be enabled in Xray settings, and:

- have one of the project roles configured on the default Xray global permission for the [Hierarchical Test Organization](#) in Xray settings.

Or

- have the [Create folders](#) and [Move issues](#) user [Xray Test Repository Permissions](#) configured on the Project Permission Scheme of the target project

Test Case Importer Setup

Setup

Project

Fields

Values

Setup

CSV Source File *

Choose File

No file chosen

The maximum file upload size is 10,00 MB.

CSV Delimiter *

;

CSV delimiter token

File Encoding *

UTF-8

Hierarchical Test Organization

☐ Create Folders



By selecting this option, the imported Test(s) will be organized into new folders, whenever the specified folder path does not exists in the Test Repository.

☐ Use an existing configuration file

If you have used this importer before, you may have saved the configuration you used.

You can use that configuration again to save time.



Please note: Only Tests of Test Type **Manual** will be imported.

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With the 'Create Folders' in the Setup page of the Test Case importer, on Field Mapping page, during the mapping step, you need to map the CSV column containing the path to the "Test Repository Path" Xray's custom field.

(e.g. 1)

Test Repository Path

→

Test Repository Path

☐

(e.g. components)



Please note

The "Test Repository Path" is case insensitive and each folder is trimmed (spaces are removed from the start/end of it).

This means that "components/compA", "components /compA", and " components/COMPA" are all the same and will be mapped to the same folder within the Test Repository.

If the folder is not found, then the Test is created, but it is not associated with any folder; it will appear in the "Orphans" meta-folder. Unless you selected the option 'Create Folders', in the Setup page.

Links

You can import a link to other issues for newly-created Tests by choosing the "Link ..." mapping.

Links to requirements

When importing Tests, you can specify the links to the requirements that each Test validates. For that purpose, columns must be mapped as **Link "Tests"**.

If the Test covers multiple requirements, then multiple CSV columns must be used, each one being mapped in the same way.

Link to requirement

(e.g. CALC-881)



Link "Tests"

Date Time fields

Dates and Date Time field formats must comply with the Java [SimpleDateFormat](#). On the project mapping page, the format used on the CSV file should be given in order for the import process to complete without errors or warnings.

Example of valid SimpleDateFormat formats

- dd/MM/yyyy hh:mm
- dd/MMM/yy h:mm a

Comments

Comments can be added to Test issues using the "**DateTime;User;CommentBody**" syntax, where DateTime and User are optional.

More than one comment can be added for each issue, by adding more than one column on the CSV file.

DateTime uses the Date Time format specified on the project mapping page, and User must be a valid username.

Example valid comment entries

- 01/01/2012 10:10;Admin; This comment works
- 01/01/2012 10:10; This comment also works
- "This comment is only the text body"

Priorities

An issue's priority defines its importance in relation to other issues. You can read more [here](#). Before Jira 7.6, priorities could only be defined globally (i.e., for all projects). In Jira 7.6, Jira allowed a Project to have custom Priority Scheme. When using [Jira CSV importer](#), Jira has different behaviors when Priorities are provided or not, depending on the Jira versions.

Xray will have the same behavior, no matter what version of Jira. When a user (admin or not) is trying to import a CSV with Xray Test Case Importer:

- Priority is provided and is associated with Project: Xray will create the Tests with the priority provided in CSV
- Priority is provided but does not exist or is not associated with Project Scheme: Xray will create Tests with the default priority if set, or with the lowest ranked priority;
- Priority is not provided: Xray will create Tests with the default priority if set, or with the lowest ranked priority;

Issue Key (Update Existing Manual Test)

As in Jira's native CSV import, we provide means to updating an existing issue.

key



Issue Key



(e.g. CALC-22790)

In order to Update an issue you must comply with the following pre-conditions:

- Issue keys must belong to the same project as mapped in the **"Import to Project" option**.
- Issue keys must belong to an **existing editable Issue**, of type **"Test"** and with a **"Manual"** Test Type.
- User must have **Create** and **Edit permission** for all Issues being updated.

While updating the Manual Test Issues, keep in mind that your Manual Test Steps will be **overwritten with the new Step specification** declared in the CSV file.



Update Issue Field Behaviour

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

Useful tips for importing Tests

Importing data in any system is a non-linear process; you may need to run it multiple times until you get the expected result because it is easy to forget to map a field or use a delimiter, etc.

- Add a unique label to all your tests, so you can clearly identify the tests imported at a given time. This will make analysis simpler and performing bulk operations (e.g., change fields, remove fields) will also be easier.
- Use a custom field for storing the external ID of the tests in their original system. Thus, whenever tests are imported, you can easily compare them with the original tests in the original system.

Examples

Please see a tutorial with working [Examples using Test Case Importer](#), showcasing different scenarios, which you can download and try by yourself.