

# Steps SpreadSheet to Xray format converter tool



## Deprecation Notice

This tool is deprecated and is going to be removed on future versions.

From Xray 2.1 onwards, the preferred way of importing Manual Tests is by using Xray's Test Case Importer, as detailed in [Importing Manual Tests using Test Case Importer](#).

For some users, it is easier to create Manual Test definitions in a spreadsheet and then import them to Xray using the import procedure described in [Importing Tests with \(CSV\)](#). Xray provides a **xray-converter** tool to make it straightforward.

It converts a CSV, that basically contains the steps definitions, into the generic Jira CSV-compatible import format, which requires all rows to be filled.

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## Conversion overview

1. Your step definitions must be defined in a spreadsheet that follows a specific format (see table below). You can either use an [example](#) file as basis, or adapt your already existing spreadsheet.
2. Then, you may run **xray-converter** to convert the "steps spreadsheet" into the generic CSV format supported by Jira/Xray.
3. Don't forget that in the end, you will have to import the tests using the newly-created CSV file, as described in [Importing Tests with \(CSV\)](#).

## Layout of spreadsheet with steps

Your spreadsheet must strictly follow this format ([example file](#)):

| TCID | Project            | Region | Issue_Type | Environment | Summary     | Component | Description        | Reporter                   | Priority | Labels    | Test_Type | Step           | Data                       |
|------|--------------------|--------|------------|-------------|-------------|-----------|--------------------|----------------------------|----------|-----------|-----------|----------------|----------------------------|
| 1    | QA Test Repository | AMER   | Test       | Test        | Test Case 1 | App1      | Test Description 1 | Ivaan, Iftekhhar: IT (NYK) | Trivial  | Java,Test | Manual    | Browse to url  | <a href="#">www.bn.com</a> |
| 1    |                    |        |            |             |             |           |                    |                            |          |           |           | Click login    |                            |
| 1    |                    |        |            |             |             |           |                    |                            |          |           |           | Enter Userid   | iivaan                     |
| 1    |                    |        |            |             |             |           |                    |                            |          |           |           | Enter Password | xyz123                     |
| 1    |                    |        |            |             |             |           |                    |                            |          |           |           | Click OK       |                            |
| 2    | QA Test Repository | AMER   | Test       | Test        | Test Case 2 | App1      | Test Description 2 | Ivaan, Iftekhhar: IT (NYK) | Trivial  | Java,Test | Manual    | Browse to url  | <a href="#">www.bn.com</a> |
| 2    |                    |        |            |             |             |           |                    |                            |          |           |           | Click OK       |                            |
| 3    | QA Test Repository | AMER   | Test       | Test        | Test Case 3 | App1,App2 | Test Description 3 | Ivaan, Iftekhhar: IT (NYK) | Trivial  | Java,Test | Manual    | Browse to url  | <a href="#">www.bn.com</a> |



The **TCID** must be the first column of your spreadsheet and the **Step**, **Data** and **Expected\_Result** the last three columns. These columns are mandatory; otherwise, the conversion won't work properly.

It is also recommended that you always have the **Issue\_Type** and the **Test\_Type** columns in order to force Jira to create your tests with the correct Issue Type and Test Type.

## Export steps spreadsheet to CSV

Export your "steps spreadsheet" to CSV and set your separator type as ;. You'll now have a file similar to the following output ([example file](#)).

```

TCID;Project;Region;Issue_Type;Environment;Summary;Component;Description;Reporter;Priority;Labels;Test_Type;
Step;Data;Expected_Result
1;QA Test Repository;AMER;Test;Test;Test Case 1;Appl;Test Description 1;Ivaan, Iftekhar: IT (NYK);Trivial;Java,
Test;Manual;Browse to url;www.bn.com;BN home page shows
1;;;;;;;;;;Click login;;
1;;;;;;;;;;Enter Userid;iivaan;
1;;;;;;;;;;Enter Password;xyz123;OK button enable
1;;;;;;;;;;Click OK;;Welcome Msg shows
2;QA Test Repository;AMER;Test;Test;Test Case 2;Appl;Test Description 2;Ivaan, Iftekhar: IT (NYK);Trivial;Java,
Test;Manual;Browse to url;www.bn.com;BN home page shows
2;;;;;;;;;;Click OK;;Welcome Msg shows
3;QA Test Repository;AMER;Test;Test;Test Case 3;Appl,App2;Test Description 3;Ivaan, Iftekhar: IT (NYK);Trivial;
Java,Test;Manual;Browse to url;www.bn.com;BN home page shows

```



Make sure you have Java environment installed on your machine and set JAVA\_HOME. Detailed instructions are in [https://confluence.atlassian.com/display/CROWD/Setting+JAVA\\_HOME](https://confluence.atlassian.com/display/CROWD/Setting+JAVA_HOME)

## Implementation

1. Copy the CSV with the steps to the **data**/subdirectory within the xray-converter folder.
2. Run the xray-converter (see syntax below).
3. Import the issues to Jira using Jira's native CSV import feature.



In **Unix based systems or OS X**, you must use the *xray-convert.sh* executable; in **Windows**, you should use the *xray-converter.bat* batch file.

## Syntax

| Argument       | Description   | Example (based on spreadsheet example) |
|----------------|---|--|
| -path          | The path to the file to convert   | -path ./data/SampleTestCase.csv        |
| -data          | The test step's Data column name  | -data Data                             |
| -result        | The test step's Expected Result column name   | -result Expected_Result                |
| -step          | The test step's Step column name  | -step Step                             |
| -attrDelimiter | The delimiter used in the file to separate the different attributes   | -attrDelimiter ";"                     |
| -testDelimiter | The delimiter used in the file to separate the different tests to import or please provide the column name. When this cell value changes, it means that the line represents a new Test. | -testDelimiter TCID                    |

## Examples

### Unix

```

./xray-converter.sh -path ./data/SampleTestCase1.csv -step Step -data Data -result Expected_Result -
attrDelimiter ";" -testDelimiter TCID

```

### Windows

```

xray-converter.bat .\data\SampleTestCase.csv Step Data Expected_Result ";" TCID

```



When executing the **xray-converter.bat** file, you do not specify the argument's names, but you must follow the order shown in the example.



When exporting from XLS to CSV, choose the option: *"CSV (comma separated)"*.



The test steps in the XLS cannot contain the character `"` at the end of any line; otherwise, the exported document will be unformatted.



### Troubleshooting

If you get an error like

*'C:\Program' is not recognized as an internal or external command,  
operable program or batch file.*

it's because Windows is not interpreting the JAVA path correctly.

e.g.,

```
ECHO %JAVA_HOME%  
C:\Program Files\Java\jdk1.8.0_45
```

You can fix it by providing JAVA\_HOME path with a `"` e.g., `"C:\Program Files\Java\jdk1.8.0_45"` or more radically, copy this folder to `C:\jdk1.8.0_45` and change JAVA\_HOME to `C:\jdk1.8.0_45`

## Installation

1. Download **xray-converter** [here](#)
2. Unzip it to a directory of your choice.



### Archive location

New version. Compatible with newlines inside cells (`"\n"`, `"\r"`).