Import TestPlan Results into TestLink

Purpose of the tool

If you want to log TestCases results in an "offline mode" (no access to TestLink web server during test Execution) or if you want to execute each TestCase in particular order, the easiest way is to use tables.

TestLink is able to use XML to import testcases Results. This document will explain how to export a TestPlan to use it into Excel and how to import TestCases Results into TestLink using XML files. Excel is used as editor to add or edit TestCases Results, then transformed via macro to XML file.

Version information

- ➢ **Excel Filename** : 03-Executions.xls

- ➢ **Applicable Excel Macro Version :** 20160331

- ➢ **Works with :**

    - ✓ TestLink 1.9.3 ➜ TestLink 1.9.14

Summary

Define a TestPlan in TestLink

TestPlan must be defined in TestLink as explained in TestLink documentation (TestPlan creation, milestones definition, build definition, Add/remove TestCases in TestPlan).

Export a TestPlan from TestLink to XML file

In Test Execution section, a tree containing all TestCases to execute is displayed. In this view, the TestPlan can be exported.
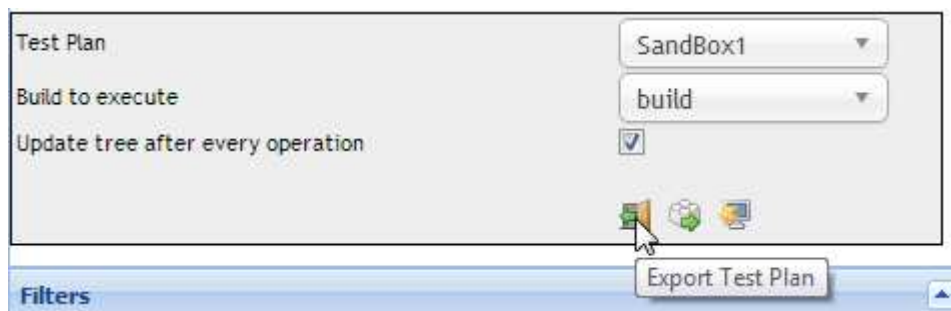

Figure 1 : Access Tests Execution Section

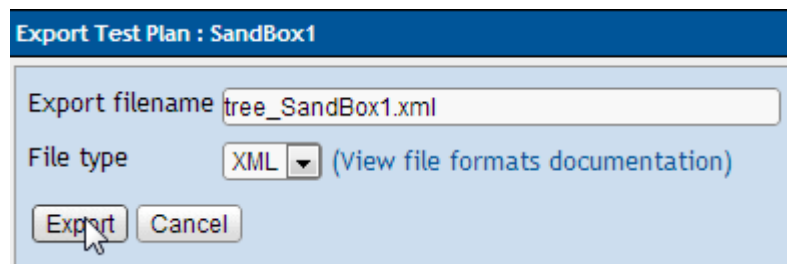Figure 2 : Access to the export TestPlan button

Figure 3 : Export the TestPlan as a XML file

Import TestPlan Execution Into TestLink How To

Excel pattern overview

The Excel file used to log execution results of a TestPlan is named "03-ImportTestsPlanExecResultsIntoTestLink.xls". Excel Macros must be activated on this file to work properly.

- The "Test Plan" section (yellow columns header) information are extracted from a TestPlan export from TestLink (XML format).

- The "Execution" section (blue columns header) should be used during Test Execution to log every element about the execution.

- The "Custom Fields" section (dark pink columns header) is hidden by default. This section can be used to declare value of several Custom Fields linked to TestCases, by adding new columns if needed

- All these information is used during XML file generation to provide results to TestLink.

Import a TestPlan into Excel file

1) Use the button "TestLink TestPlan Import"

Figure 4 : Select Load a TestLink TestPlan button

2) Select the XML file to import.
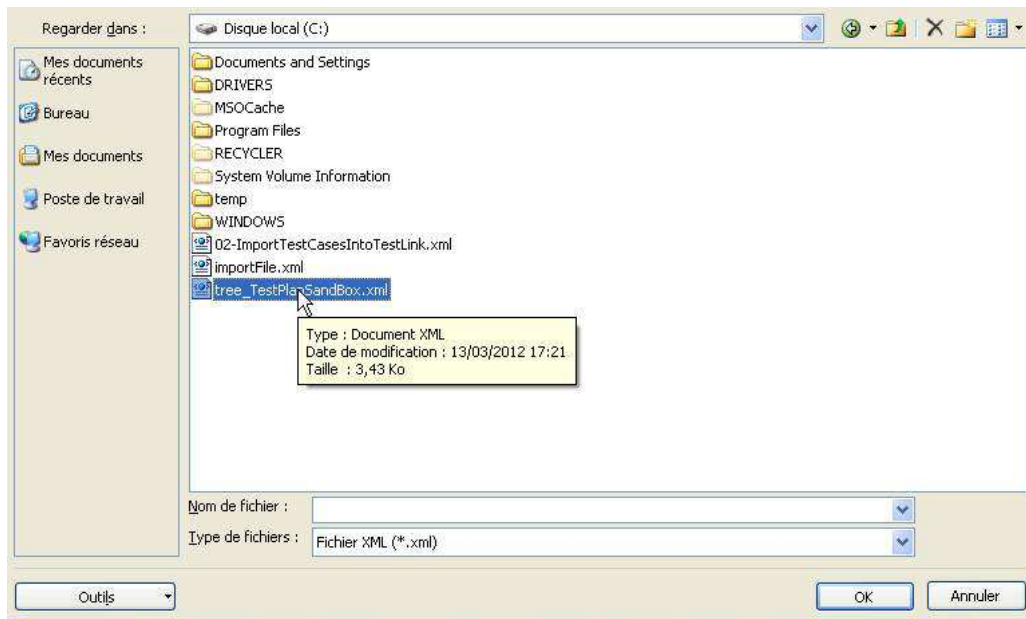
Import TestPlan Execution Into TestLink How To

Figure 5 : Select the XML file to import in Excel

3) Provide the TestLink URL to use as hyperlinks on TestCases Names.

Figure 6 : Provide the TestLink URL

If empty URL is provided, testcases names are not transformed as hyperlinks.

During import treatments, Excel prevents you that the XML scheme has to be created. Check the "don't ask again" box to switch to a silent mode during next uses of the macro.
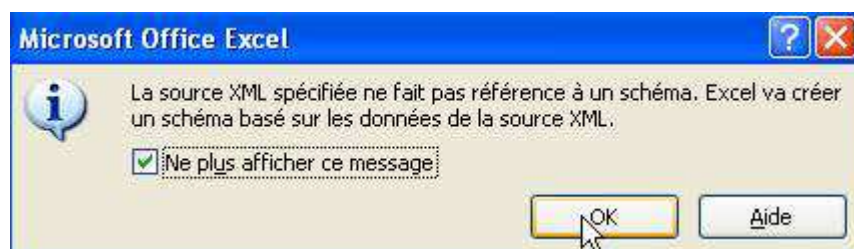

Figure 7 : XML source in Excel

The import process fills the Yellow columns headers of the Excel file

Import TestPlan Execution Into TestLink How To

Figure 8 : TestPlan data import

- Each TestName is a HTTP link to the TestCase content is TestLink URL has been provided

- External ID is the technical way to link an exported TestCase in a XML TestPlan file and a TestCase in a XML TestPlan Result file. This information mustn't be modified.

- Execution Order information is imported in hidden column D to order testcase by execution order if needed.

Execution information in Excel file

Execution Notes is a comment that can be added for each TestCase.

Figure 9 : Execution Notes

An execution notes editor is available to help user to fill information about the testcase step by step in a formatted way. To access note editor, select the cell to fill and use the hotkey "Ctrl + E".

The result of the Note Editor is always written in the Column "Notes", on the row selected when the hotkey is used (even if the selected cell is changed during the Note Edition).

Figure 10 : Note Edition

External ID	Result	Notes	Tester	
123		[TestCase] The TestCase has to be reviewed : Step 1 and Step 3 can't be executed [Step 1 / Blocked] unable to access to the function [Step 2 / Passed] OK [Step 3 / Blocked] unable to do the step		
124				
125				
126				

Figure 11 : Notes execution content after validation

The step by step format has been done when TestLink didn't log result step by step approach (pre-1.9.11 version). The Excel file is not able to generate a XML file with step result compliant with new TestLink 1.9.11 in this version (future release of the Excel file? Only if TestLink is able to import Test Execution Result with Step by Step result).

Each TestCase Result should be chosen between "Passed", "Blocked" and "Failed" values

Figure 12 : TestCase Result selection

The Execution TimeStamp is automatically filled when you change Result Value, deleted if you delete Result Value

Figure 13 : TestCase Execution TimeStamp

Execution Tester must be the identifier of a user defined in TestLink database (login name). If nothing is filled, the user who imports the XML result file will be used as Execution Tester by TestLink.

Figure 14 : TestCase Execution Tester

The Related Bug ID column can be used to list existing Bug IDs related to a TestCase Execution. The cell can be empty or filled with one or more IDs.

The character ';' must be used between each Bug ID if more than one bug ID is filled. The use of carriage return inside the cell is possible but not mandatory.

Figure 15 : Bug ID related to a TestCase

A column is available to provide the Execution Duration of each testcase. This column is hidden by default. The execution duration must be provided in minutes.

Import TestPlan Execution Into TestLink How To

Figure 16 : TestCase Execution Duration

Two Columns are available to provide Custom Fields for each testcase. This column is hidden by default. User can add more columns if needed.

User has to replace <Custom X> with the project custom name, and fill for each testcase the value of the custom field.

Warning : the excel file will generate custom fields in XML file but import into TestLink can be done only with TestLink 1.9.12 and later.

XML file generation

When all TestPlan Results have been filled in Excel, just click on 'XML Result Generation' button to execute the Excel Macro.
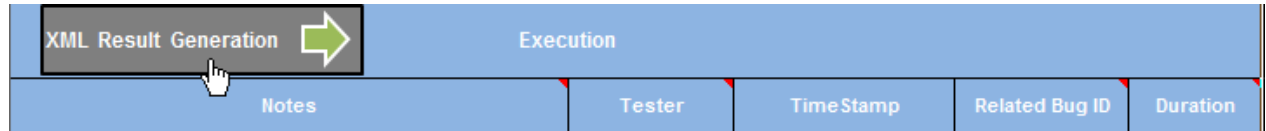
Figure 17 : XML file generation

If the file content has to be reviewed, a popup will appear explaining what's wrong
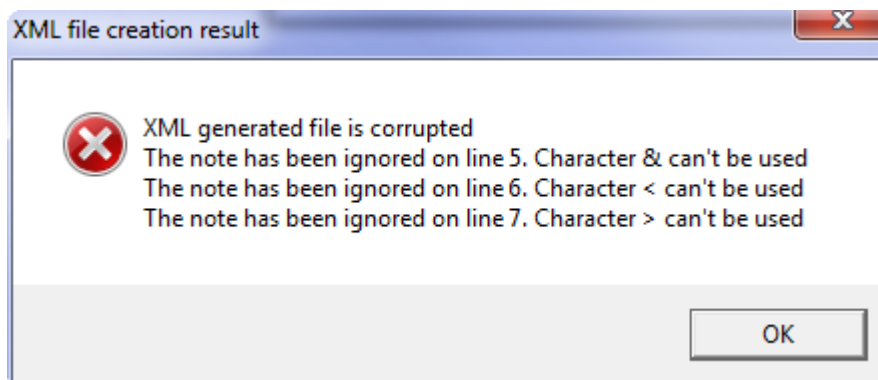
Figure 18 : XML file generation result KO

A log file containing all errors can be created if needed.
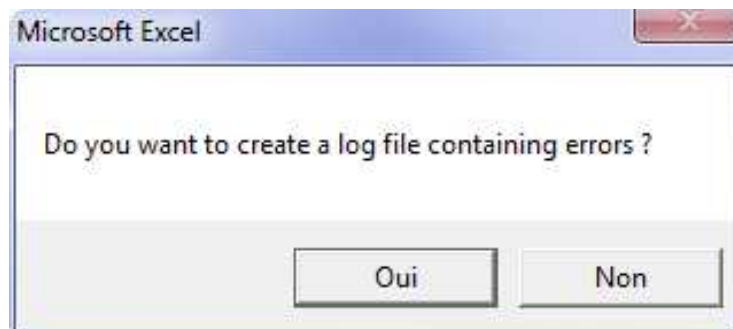
Figure 19 : Save the log file

The log file is created in the same Excel file folder, with the Excel file name (with a .log suffix).

If everything is OK with the file content, a popup will appear with the following text displayed

Import TestPlan Execution Into TestLink How To

Figure 20 : XML file generation result OK

The XML file is created in the same Excel file folder, with the Excel file name (the .xls suffix is replaced by a .xml suffix).

Import TestPlan Execution Into TestLink How To

Import Execution Results into TestLink

XML file generated by the macro must be used during the import process.

1) Select one testcase in the test Execution tree. The 'Import XML Result' Button is displayed in the right pane.

Figure 21 : Select one testcase to display import button
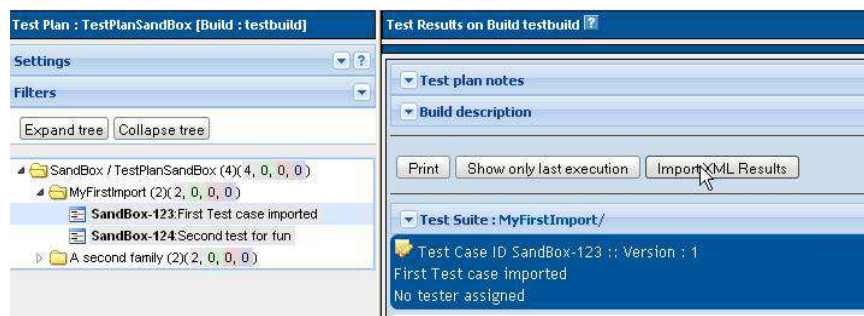
2) Select the import button

Figure 22 : Select 'import XML Results'

3) Configure the import options
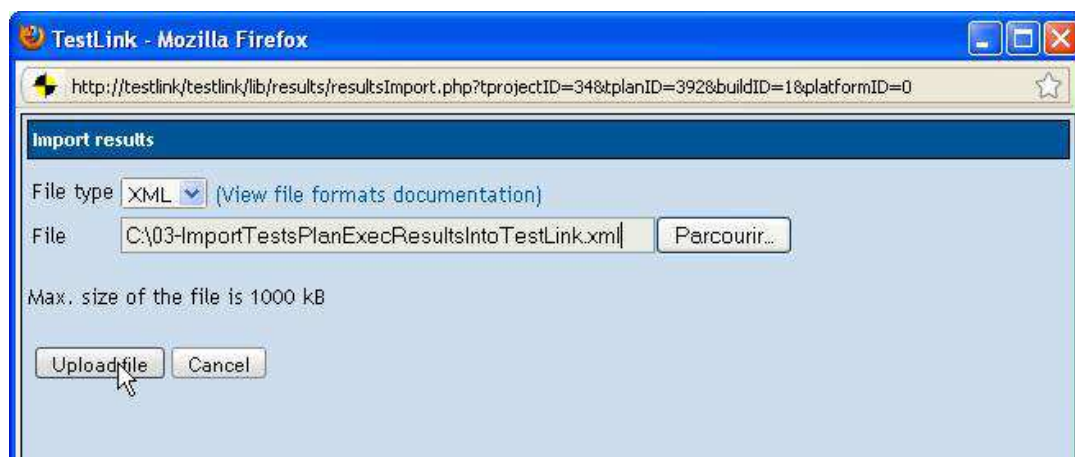
Figure 23 : Import Test Execution Result options

Import TestPlan Execution Into TestLink How To

4) Upload the file to import data

Import results

Import TestCase data : Test Case SandBox-123 - version 1 - Tester: admin - Result: passed - Execution Timestamp: '2012-03-13 17:31:25' - Imported!
Import TestCase data : Test Case SandBox-124 - version 1 - Tester: admin - Result: failed - Execution Timestamp: '2012-03-13 17:31:35' - Imported!
Import TestCase data : Test Case SandBox-125 - version 1 - Tester: admin - Result: blocked - Execution Timestamp: '2012-03-13 17:31:37' - Imported!
Import TestCase data : Test Case SandBox-126 - version 1 - Tester: admin - Result: passed - Execution Timestamp: '2012-03-13 17:31:32' - Imported!

Figure 24 : import Testcases result

Tips and problems

- **Load a TestPlan into Excel** is able only with Excel 2003 Pro, Excel 2007 and Excel 2010 (use a specific Excel function).

- The **XMLTestcases file encoding** depends of Excel version. In French version, the Excel generated file is not UTF-8 but ANSI. Encodage information is set to "ISO-8859-1" in XML file, allowing the use of Latin characters (like é, è or à used in French). If a "XML Loading Failed" is displayed during XML import in TestLink, check the file encoding.

- The **Relation Bug ID** information has been tested and validated only with Mantis Bug Tracker.

- **Intermediate import into TestLink** can be done since TestLink 1.9.13. TestLink code has been adapted to ignore already known executions (based on TestCase + TC version + Execution Timestamp)

Document Changelog

Excel File Version	Major Changes
20120314	Initial Release
20130218	Import has been successfully tested within TestLink 1.9.3, 1.9.4, 1.9.5 and 1.9.6
20130530	Import has been successfully tested within TestLink 1.9.7
20130916	Update How To information Add Note execution editor explanation
20140129	Update How To information Add Bug ID column explanation
20140403	Update How To information Explanation about export Log functionnality
20140415	Import has been successfully tested within TestLink 1.9.8 and 1.9.9 Add explanations about the new XML tag <execution_duration>
20140724	Import has been successfully tested within TestLink 1.9.10 Update How To information (Screenshots and Note Editor section)
20140827	Import has been successfully tested within TestLink 1.9.11 Remove the "prefix" section that is not needed anymore with TL 1.9.11
20141214	Import has been successfully tested within TestLink 1.9.12 Add Custom Field columns information

Excel File Version	Major Changes
20150331	Import has been successfully tested within TestLink 1.9.13

Excel file handle <exec_order> tag provided since TestLink 1.9.13 (hidden column D of the file). User can now order by exec_order if needed in Excel during execution.

Add The edited TestCase ExternalID in the Note Editor

Modify Tab Index of the Note Editor content to allow user to use Tab key when filling the information

Bug Correction : Auto Delete TimeStamp is now disable when several Cells (including Results) are deleted |
| 20150831 | Update package version information |
| 20160209 | Add hyperlinks GUI and explanations.

Update package version information |
| 20160229 | Add intermediate import tip

Update package version information |
| 20160331 | Update ScreenShots according to new import and export button

Update package version information |