

Import TestCases into TestLink

Purpose of the tool

If you want to create a lot of testcases in TestLink easily, the easiest way is to use tables.

TestLink is able to use XML to import testcases. This document explains how to import Testcases into TestLink using XML files. Excel is used as editor to add new testcases.

Version information

- **Excel Filename** : 02-ImportTestCasesIntoTestLink.xls
- **Applicable Excel Macro Version** : 20140403
- **Works with** :
 - ✓ TestLink 1.9.3
 - ✓ TestLink 1.9.4
 - ✓ TestLink 1.9.5
 - ✓ TestLink 1.9.6
 - ✓ TestLink 1.9.7
 - ? TestLink 1.9.8
 - ? TestLink 1.9.9

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Testcases declaration using Excel

To declare testcases, the excel pattern named “02-ImportTestCasesIntoTestLink.xls” must be used. This file could be used to update existing tests or to create new tests.

Excel pattern overview

Test Suite		Test Case		Steps		Coverage
Name	Details	Name	Summary	Steps	Expected Results	Document ID
Parent	Details about the parent test suite	A first TestCase	The summary of the First TestCase	The first Step	Expected result for the first step	Req-SandBox-1
myTestSuite	Details about my TestSuite	A second TestCase	A second test Case for My TestSuite	A second Step	And an expected result for the second step	Req-SandBox-3
Parent	Details about the parent test suite	Your first TestCase	The summary of the First TestCase of your testSuite	The first Step	Expected result for the first step	Req-SandBox-4
YourTestSuite	Details about your TestSuite	Your second TestCase	A second test Case for Your TestSuite	A second Step	And an expected result for the second step	Req-SandBox-4; Req-SandBox-2
				A third Step	Expected result for the third step	

Figure 1 : Excel pattern information overview

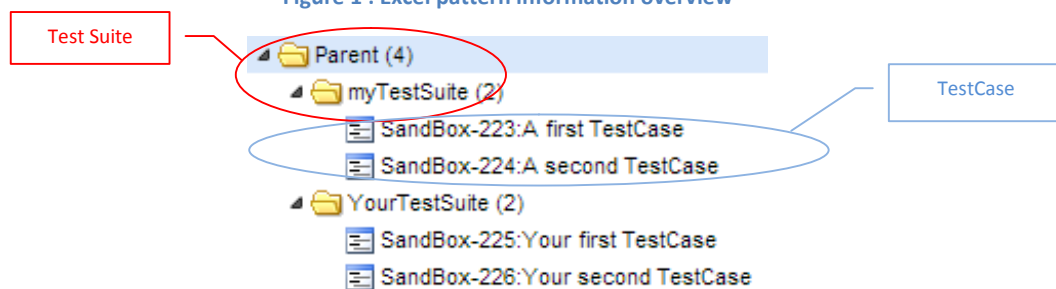


Figure 2 : imported results overview

- The “Test Suite” section (dark blue columns header) can be used to declare folders trees in TestLink (folders are named “Test Suite Operations” in TestLink GUI).
- The “Test Case” section (cyan columns header) can be used to declare Test Cases in TestLink (Test Cases are named “Test Case Operations” in TestLink GUI).
- The “Custom Fields” section (dark pink columns header) is hidden by default. This section can be used to declare several Custom Fields in TestLink, by adding new columns if needed.
- The “Steps” section (yellow columns header) can be used to declare Test Cases Steps and expected results in TestLink.
- The “Coverage” section (grey columns header) can be used to declare Test Case coverage in TestLink.
- The “Test Suite” section and the association of the “Test Case”, “Custom Fields”, “Steps” and “Coverage” sections **must not** be filled on the same line.
- All “Test Case” declared after a “Test Suite” section will be inserted in the most recent “Test Suite” defined.
- “TestCase”, “Custom Fields” and “Coverage” sections of each Testcase **must** be provided only once, even if the Testcase is multi-steps

- Consecutive lines in the “Test Suite” section are considered as a “subfolders” (tree) declaration.
- The “Test Suite” **must provide the path from the root directory** each time a Test Suite is declared in the file. Test Suite “Name” and “Details” **must be** declared several times in the same file if the same folder is used for several sub-folders (see “Parent” example in figures above).

Excel columns content explanations

(Red = mandatory, Black = Optional)

- **Columns used for a Test Suite declaration**
 - **Name** : TestSuite Name
 - **Details** : TestSuite Description
- **Columns used for a TestCase declaration**
 - **TC#** : TestCase Number. If filled, this number is used during import to determine the node order of the test in the TestSuite. If not filled, automatically generated by TestLink during import.
 - **Name** : TestCase name
 - **Summary** : TestCase short description
 - **PreCondition** : Testcase Preconditions
 - **ExecutionType** : Testcase Execution type

Value in TestLink	Manual	Automatic
Value to use in Excel	1	2

- **Importance** : Testcase Importance

Value in TestLink	Low	Medium	High
Value to use in Excel	1	2	3

- **Columns used for Custom Fields declaration**
 - **<Custom1>** : User defined field
 - **<Custom2>** : User defined field
- **Columns used for Steps declaration**
 - **Step** : What to do (action). One Excel row per step
 - **Expected Result** : Expected result for each step. One Excel row per expected result.
 - **StepExecutionType** : Step Execution type

Value in TestLink	Manual	Automatic
Value to use in Excel	1	2

- **Columns used for Requirements Coverage declaration**
 - **Spec Title** : Requirement Title that is covered by this Testcase.
 - **Document ID** : Requirement Doc-ID(s) that is/are covered by this Testcase. To cover more than one Doc-ID, separator is semi-comma character (;)

XML file generation

When all Testcases has been written in Excel, just click on 'TestCase Generation' button to execute the Excel Macro. Of course, macro execution must be allowed for the '02-ImportTestCasesIntoTestLink.xls' file.

If there is a problem with the content, the popup should explain why the generation has failed.

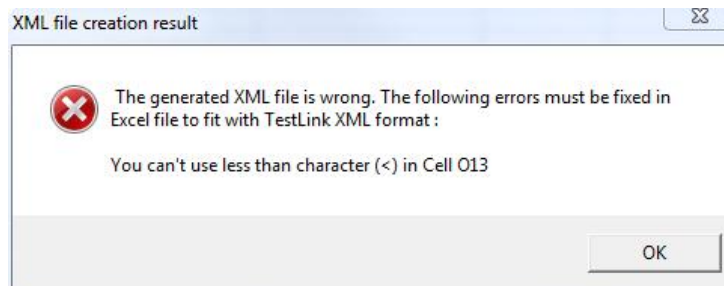


Figure 3 : XML file generation result KO

A log file containing all errors can be created if needed.

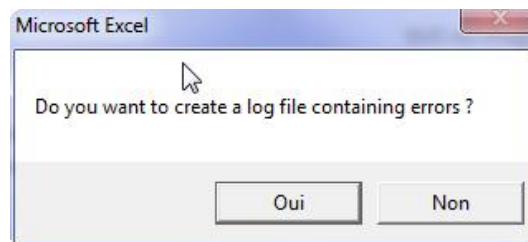


Figure 4 : Save the log file

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

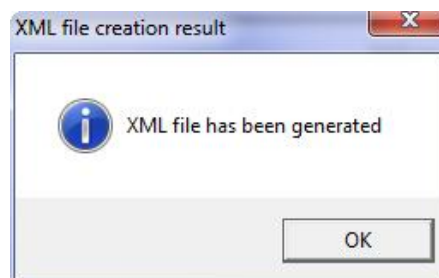


Figure 5 : XML file generation result OK

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).

When the XML generation is done, a popup ask if the requirement coverage must be done

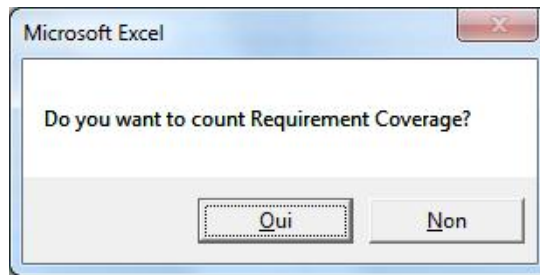


Figure 6 : Requirement Coverage question

If chosen, a new sheet is displayed, showing how many occurrence of each requirement is present

Requirements List	Requirements without duplicates	Occurrences
Req-SandBox-1	Req-SandBox-1	1
Req-SandBox-3	Req-SandBox-3	1
Req-SandBox-4	Req-SandBox-4	2
Req-SandBox-4		
Req-SandBox-2		

Figure 7 : Requirement Coverage result

This information should be useful to update the file "01-ImportRequirementsIntoTestLink" which has to provide the number of testcases needed to cover the requirement.

TestCases Import into TestLink

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

- 1) Select the folder representing the root directory where all “Test Suites” and “TestCases” will be inserted. This can be the root directory or a folder in the Test Suites tree.

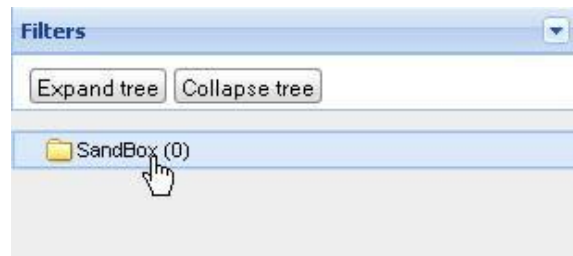


Figure 8 : select destination folder for requirements import

- 2) Select the import button



Figure 9 : Select import menu when the root directory is selected

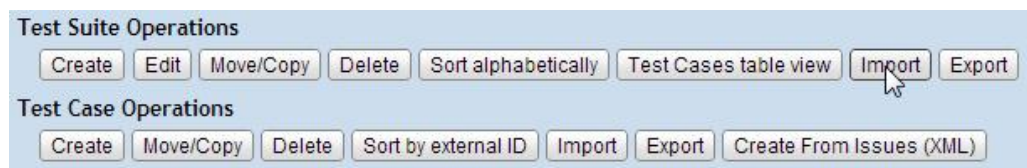


Figure 10 : Select import menu when a Test Suite (sub-folder) is selected

- 3) Configure the import options

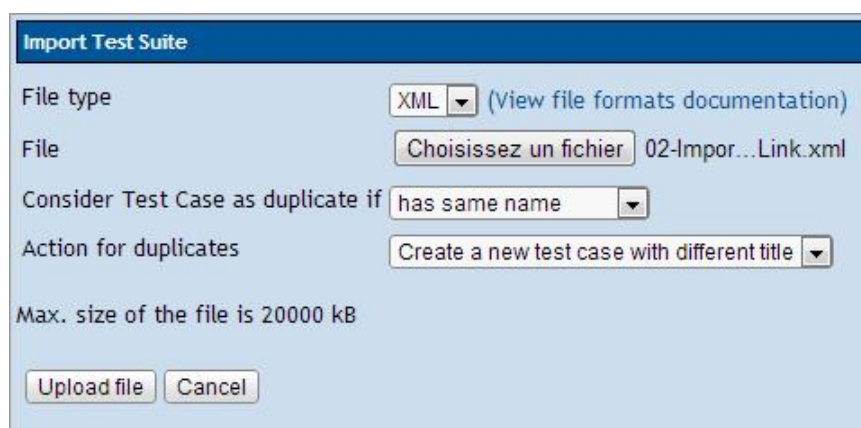


Figure 11 : TestCases import options

Import Test Suite
Test Case : A first TestCase : ok
Test Case : A second TestCase : ok
Test Case : Your first 'TestCase : ok
Test Case : Your second TestCase : ok

Figure 12 : import Testcases result

Tips and problems

- By default, **columns representing optional information** are hidden in Excel file
- In **Coverage Document ID column**, if more than one Requirement Doc-ID is provided, each Doc-ID can be provided on its own row (Alt + Enter to add a Carriage Return in the cell), separator between each requirement is semi-comma (;)
- **Generate a Testcases XML file** with Excel has been tested with Excel 2003, Excel 2007 and 2010 versions.
- **XML Test Suite** haven't to be created in TestLink before import
- If your **Testcases titles** are longer than 100 characters, titles will be reduced by TestLink during import. You have to modify const.inc.php to reconsider the value of testcase title field size (max is 255 caracters in database)
- If your **XML Testcases file** is bigger than 400Kb, you have to edit custom_cfg.inc.php to change "\$tICfg->import_file_max_size_bytes" parameter. To set new limit file size to 1Mb, modify this parameter from '409600' to '1024000'.
- 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.
- During **import into TestLink**, TestLink doesn't accept that two testcases have the same name.
- In **import result log view**, you can search for "ok", "skipped", "updated" or "duplicate" keywords to verify that TestLink Testcases import comportment is coherent with your needs.

Document Changelog

Excel File Version	Major Changes
20120314	Initial Release
20130218	Explain the Requirement Coverage function Import has been successfully tested within TestLink 1.9.3, 1.9.4, 1.9.5 and 1.9.6
20130530	Explain the Requirement Coverage function Import has been successfully tested within TestLink 1.9.7
20130916	Update How To information
20140129	Update How To information
20140403	Update How To information to explain the use of sub-folders tree solution (multi TestSuites declaration)