

# TestComplete xUnit Plugin

## Plugin Information

View TestComplete xUnit [on the plugin site](#) for more information.

Jenkins Plugin that transforms [TestComplete MHT](#) test reports into xUnit format so they can be integrated with Jenkins' JUnit features.

## How it works

It has been developed as a [xUnit Plugin](#) extension. To use it select the build step "Process xUnit test result report" or "Publish xUnit test result report" post-build action. In either case click on "Add" button and select "TestComplete-9.x-10.x" from drop down list.

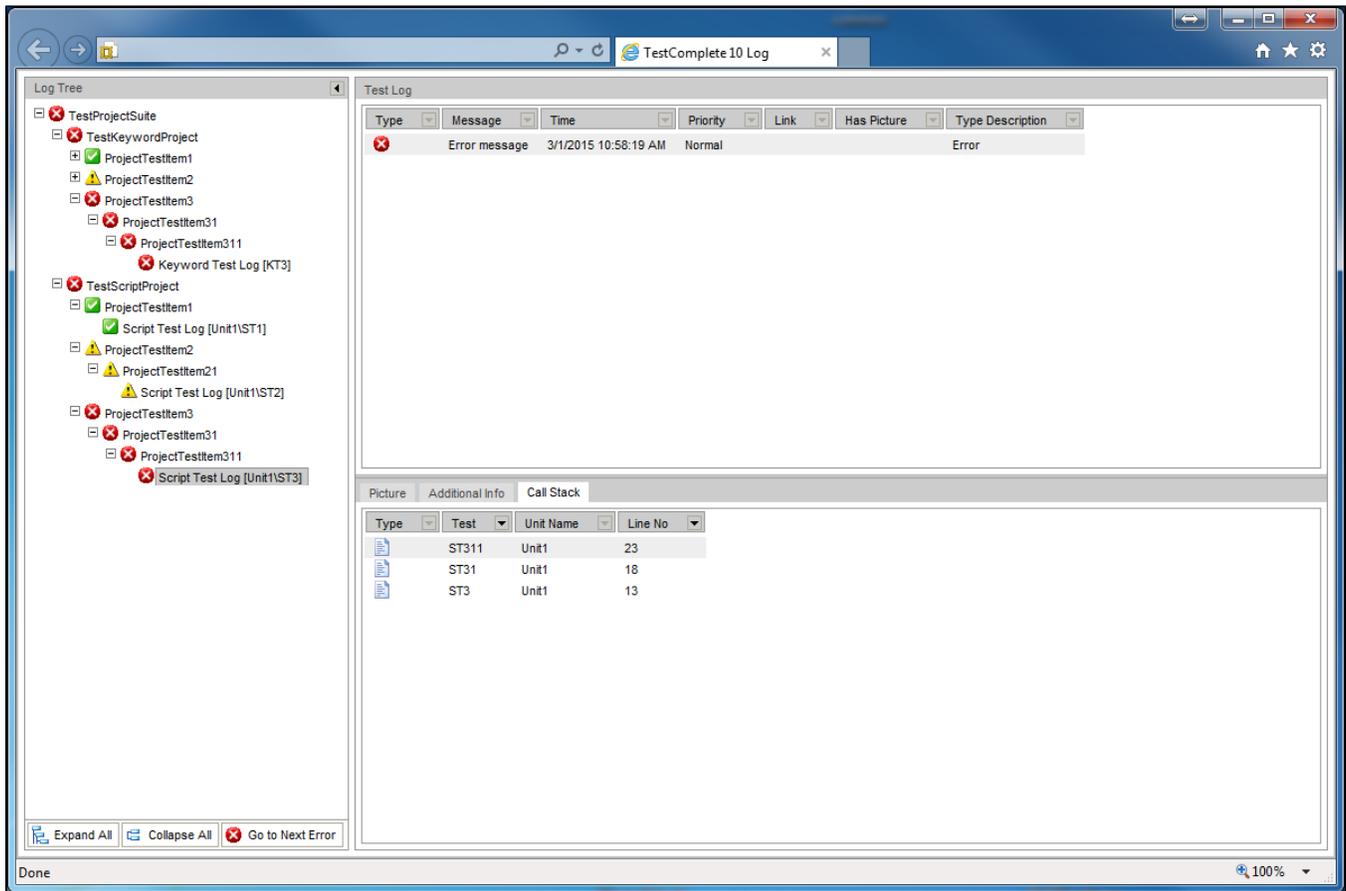
The screenshot shows the configuration interface for the 'Publish xUnit test result report' plugin. At the top, there is a text input field for the 'TestComplete-9.x-10.x Pattern'. Below this are four checkboxes: 'Skip if there are no test files' (unchecked), 'Fail the build if test results were not updated this run' (checked), 'Delete temporary JUnit files' (checked), and 'Stop and set the build to 'Failed' status if there are errors when processing a result file' (checked). A 'Delete' button is located to the right of these options. Below the configuration is an 'Add' button with a dropdown arrow. Underneath, there are two sections for configuring build status thresholds. The first section is for 'Failed Tests' and the second is for 'Skipped Tests'. Each section has a 'Build Status' label and four threshold input fields: 'Total' (with a yellow circle icon), 'New' (with a yellow circle icon), 'Total' (with a red circle icon), and 'New' (with a red circle icon). Below each set of thresholds is a small explanatory text: 'Configure the build status. A build is considered as unstable or failure if the new or total number of failed tests exceeds the specified thresholds.' At the bottom right, there are two 'Advanced...' buttons and a 'Delete' button.

In the "TestComplete-9x-10.x Pattern" text box introduce the location of the MHT report files as generated by TestComplete/TestExecute.

Some considerations:

- Tests in TestComplete can be organized in a tree of test items. JUnit reports (xUnit) however can only be organized in two levels (testsuites and testcases contained within). TestComplete's keyword and script tests are then mapped to test cases and test suite is mapped as top-level test item containing keyword or script tests at any level.
- For each resulting test case the classname is obtained as the name of the second-level ancestor test item (if any) containing the original keyword or script test.

To illustrate these considerations consider following example TestComplete report that belongs to a test suite that contains two top TestComplete projects.



This is the resulting xUnit report. The xUnit test suite name matches TestComplete's TestSuite name ("TestProjectSuite"). Test cases are named after keyword tests (e.g. "KT3") and script tests (e.g. "Unit\ST3"). The class names correspond to the names of the TestComplete projects in suite (second level test items in report).

The screenshot shows the Jenkins web interface for a test run. The breadcrumb trail is: Jenkins > UITest > icm.demo.uitest-PLUGIN-TEST > #16 > Test Results > (root). The main heading is "Test Result : (root)". A progress bar indicates "2 failures (-140)" in red and "6 tests (-322)" in blue. Summary statistics show "Took 0.97 sec" and an "add description" button. The "All Failed Tests" section lists two failed tests:

- TestKeywordProject.KT3**: Failed with an error message. Duration: 45 ms. Call Stack: 1: KT3().
- TestScriptProject.Unit1.ST3**: Failed with an error message. Duration: 83 ms. Call Stack: 23: Unit1.ST311, 18: Unit1.ST31, 13: Unit1.ST3.

The "All Tests" section contains a summary table:

Class	Duration	Fail	(diff) Skip	(diff) Pass	(diff) Total	(diff)
<a href="#">TestKeywordProject</a>	0.38 sec	1	+1	0	2 +2	3 +3
<a href="#">TestScriptProject</a>	0.59 sec	1	+1	0	2 +2	3 +3

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This plugin has been successfully tested on Linux, Windows and MacOSX.

## Change Log

### Version 1.1 (25 Mar, 2015)

- **NEW.** Added TestComplete 9.x support. Thanks to Krystian Przybya for providing feedback and reports in TC9 format. Main improvement of TC10 over TC9 is millisecond resolution support for timing information (timestamps and durations).
- **BUG.** Single test reports generated xUnit output format were not renderable by Jenkins

### Version 1.0 (17 Mar, 2015)

- First version.