**Introduction to ExcelReporting class for Domibus testing**

ExcelReporting class was introduced to support simple reporting of test case execution in Excel format. A predefined report template must already exist. After each SoapUI test case execution script to update test case result is executed.

## Install jar's

To support working with Microsoft Excel files ExcelReporting class use Apache POI library (https://poi.apache.org/index.html), required jars are:

poi-<version>.jar

poi-ooxml-<version>..jar

poi-ooxml-schemas-<version>..jar

"<*version>*" is the POI version - described class was built base on version 3.15.

## Report structure

ExcelReporting class work base on the concept that report template file already exist and would store the most recent test case execution results. Currently the structure of report file is hardcoded in class member's variables. Following values refer to column numbers (zero-base index) for specific fields in template file.

**static** **final** **def** TC\_TEST\_SUITE\_COLUMN = 1 *// Test Suite Name*

**static** **final** **def** TC\_ID\_COLUMN = 2 *// Test Case ID (assuming everything before first dash in test case name is test case ID)*

**static** **final** **def** TC\_NAME\_COLUMN = 3 *// Full Test Case Name (with test case ID)*

**static** **final** **def** TC\_DISABLED\_COLUMN = 5 *// Is Test Case Disabled in SoapUI project*

**static** **final** **def** TC\_RESULT\_COLUMN = 6 *// Last Result of test case execution [see bellow REPORT\_PASS\_STRING/REPORT\_FAIL\_STRING]*

**static** **final** **def** TC\_TIME\_COLUMN = 7 *// Time of last Execution was Started*

**static** **final** **def** TC\_EXEC\_TIME\_COLUMN = 8 *// Test case execution time in seconds*

**static** **final** **def** TC\_COMMENT\_COLUMN = 10 *// Collected information about failed assertion, empty for passing TCs*

Current implementation assume that at least all mentioned columns exist in the excel template, but additional columns can also be present in report file (filled manually by the user). Only test case ID filed must not be empty in template file as base on this field for given test case method finds row to be updated. Columns other than test case ID column can be empty.

Mentioned data are expected to be found in template on worksheet with same name as SoapUI project name of project from with reporting method was invoked.

## SoapUI project changes

On the SoapUI project level two new project level properties need to be introduced:

1. **reportFilePath** – path to Excel template file (ex. "*${projectDir}\\testReports\\Domibus\_3\_2\_2\_test\_results.xlsx*").
2. **updateReport** – Boolean value for controlling if result of test execution need to be updated in Excel report or not. To turn on reporting feature use '**true**' (case insensitive) or '**1**' value.

ExcelReporting class test case result reporting method is being called in TearDown scripts for each test case, the exact code is:

ExcelReporting.reportTestCase(testRunner, log)

As hint an easy method to put extra line in TearDown scripts for all test cases is to execute following script:

**def** newLine = System.getProperty("line.separator")

**def** lineToAdd = "ExcelReporting.reportTestCase(testRunner, log)" + newLine

**def** codeToSearch = "ExcelReporting.reportTestCase"

log.info "START: Amend tear down scripts"

testRunner.testCase.testSuite.project.getTestSuiteList().each { testSuite ->

testSuite.getTestCaseList().each { testCase ->

**def** tdScript = testCase.getTearDownScript()

**if** (tdScript == **null**)

testCase.setTearDownScript(lineToAdd)

**else** if(!tdScript.contains(codeToSearch)) {

**def** newTearDown = tdScript + newLine + lineToAdd

testCase.setTearDownScript(newTearDown)

}

}

}

log.info "END: Amend tear down scripts"