## Command Reference: CreateRegressionTestCommandFile()

Create a command file to run software regression tests

ersion 10.20.00. 2013-04-20

The CreateRegressionTestCommandFile() command is used for software testing and certification of processes used in operations. The command creates a command file that includes a StartRegressionTestResultsReport() and multiple RunCommands() commands. A starting search folder is provided and all files that match the given pattern (by convention  $Test_*.TSTool$ ) are assumed to be command files that can be run to test the software. The resulting command file is a test suite comprised of all the individual tests and can be used to verify software before release. The goal is to have all tests pass before software release.

The following table lists tags (annotations) that can be placed in # comments in command files to provide information for testing, for example:

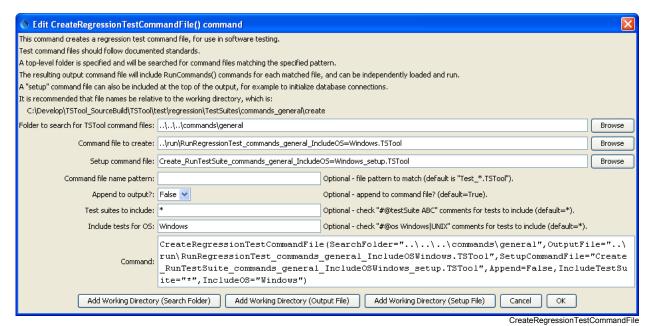
#@expectedStatus Failure

## **Command # Comment Tags**

Comment Tag	Description	
@enabled False	The RunCommands () command will by default run the command	
	file that is provided. However, if the @enabled False tag is	
	specified in a comment in the command file, RunCommands ()	
	will skip the command file. This is useful to disable a test that	
	needs additional work.	
@expectedStatus Failure	The RunCommands () command ExpectedStatus parameter	
	is by default Success. However, a different status can be	
@expectedStatus Warning	specified if it is expected that a command file will result in	
	Warning or Failure and still be a successful test. For example,	
	if a command is obsolete and should generate a failure, the expected	
	status can be specified as Failure and the test will pass. Another	
	example is to test that the software properly treats a missing file as a	
	failure.	
@os Windows	The test is designed to work only on the specified platform and will	
@os UNIX	be included in the test suite only if the IncludeOS parameter	
	includes the corresponding operating system (OS) type. This is	
	primarily used to test specific features of the OS and similar but	
	separate test cases should be implemented for both OS types. If the	
	OS type is not specified as a tag in a command file, the test is	
Amandon I	always included (see also the handling of included test suites).	
@readOnly	Indicates that the command file should not be edited. TSTool will	
	update old command syntax to current syntax when a command file is loaded. However, this tag will cause the software to warn the	
	user when saving the command file, so that they can cancel.	
@testSuite ABC	Indicate that the command file should be considered part of the	
	specified test suite, as specified with the IncludeTestSuite	
	specified test saite, as specified with the interacted test settle	

Comment Tag	Description	
	parameter. The test is included in all test collections if the tag is not	
	specified; therefore, for general tests, do not specify a test suite.	
	This tag is useful if a group of tests require special setup, for	
	example connecting to a database. The suite names should be	
	decided upon by the test developer.	

The following dialog is used to edit the command and illustrates the syntax for the command.



CreateRegressionTestCommandFile() Command Editor

The command syntax is as follows:

CreateRegressionTestCommandFile(Parameter=Value,...)

## **Command Parameters**

Parameter	Description	Default
SearchFolder	The folder to search for regression test command files.	None – must be
	All subfolders will also be searched.	specified.
OutputFile	The name of the command file to create, enclosed in	None – must be
	double quotes if the file contains spaces or other special	specified.
	characters. A path relative to the command file	
	containing this command can be specified.	
SetupCommandFile	The name of a TSTool command file that supplies setup	Do not include setup
	commands, and which will be prepended to output. Use	commands.
	such a file to open database connections and set other	
	global settings that apply to the entire test run.	
FilenamePattern	Pattern for TSTool command files, using wildcards.	Test_*.TStool
Append	Indicate whether to append to the output file (True) or	True
	overwrite (False). This allows multiple directory	
	trees to be searched for tests, where the first command	

Parameter	Description	Default
	typically specifies False and additional commands	
	specify True.	
IncludeTestSuite	If *, all tests that match FilenamePattern and	* – include all test
	IncludeOS are included. If a test suite is specified,	cases.
	only include tests that have @testSuite tag values	
	that match a value in IncludeTestSuite. One or	
	more tags can be specified, separated by commas.	
IncludeOS	If *, all tests that match FilenamePattern and	* – include all test
	IncludeTestSuite are included. If an OS is	cases.
	specified, only include tests that have @os tag values	
	that match a value in IncludeTestSuite. This tag	
	is typically specified once or not at all.	

See the **Quality Control** chapter of the TSTool documentation for how to set up a regression test. The following command file illustrates how to create a regression test suite.

```
CreateRegressionTestCommandFile(SearchFolder="..\..\..\commands\general",
   OutputFile="..\run\RunRegressionTest commands general.TSTool", Append=False)
```

An example of the output file from running the tests is:

```
File generated by... program: TSTool 10.20.00 (2013-04-10)
# program:
    user:
# date:
                                      Sat Apr 20 13:36:05 MDT 2013
# host:
# directory:
                                     {\tt C:\Develop\TSTool\_SourceBuild\TSTool\test\regression\TestSuites\commands\_general\run}
# command line: TSTool
      -home test/operational/CDSS
    \texttt{Command file regression test report from StartRegressionTestResultsReport() and RunCommands()} \\
# Explanation of columns:
# Num: count of the tests
    Enabled: blank if test enabled or FALSE if "#@enabled false" in command file
# Run Time: run time in milliseconds
    Test Pass/Fail:
          The test status below may be PASS or FAIL (or blank if disabled).
A test will pass if the command file actual status matches the expected status.
          Disabled tests are not run and do not count as PASS or FAIL. Search for *FAIL* to find failed tests.
    Commands Expected Status:
           Default is assumed to be SUCCESS.
           "#@expectedStatus Warning|Failure" comment in command file overrides default.
    Commands Actual Status:
           The most severe status (Success|Warning|Failure) for each command file.
                                                  |Test |Commands |Commands
                                                  |Pass/ |Expected |Actual
# Num|Enabled|Time |Fail |Status
                                                                                          |Status
                                                                                                                         |Command File
                                                                                            SUCCESS
                                          141| PASS |SUCCESS
                                                                                                                         |C:\protect{C:\protect{NEW1}} ARMA \protect{C:\protect{NEW1}} ARMA \protect{NEW2} Build \protect{NEW2} ARMA \protect{NEW3} A
                                                                                                                         |C:\Develop\TSTool_SourceBuild\TSTool\test\regression\commands\general\ARMA\Test_ARMA_Legacy.TSTool
|C:\Develop\TSTool_SourceBuild\TSTool\test\regression\commands\general\ARMA\Test_ARMA_Legacy_Ast.TSTool
                                             31| PASS | SUCCESS
                                                                                           ISUCCESS
                            | 31| PASS |SUCCESS
| 15| PASS |SUCCESS
                                                                                            SUCCESS
         4 |
                                                                                          ISUCCESS
                                                                                                                         |C:\Develop\TSTool_SourceBuild\TSTool\test\regression\commands\general\ARMA\Test_ARMA_Legacy...
                                             0 |
                                                                                           | UNKNOWN
|C:\Develop\TSTool SourceBuild\TSTool\test\regression\commands\general\WriteReclamationHDB\Test WriteReclamationHDB ...
                           = 0, 0.000%
= 17, 100.000%
FAIL count
PASS count
Disabled count = 1
```

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