Command Reference: CreateRegressionTestCommandFile()

Create a command file to run software regression tests

General Command

Version 3.08.02, 2010-01-06

The CreateRegressionTestCommandFile() command is used for software testing (or certification of processes used in operations) and 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 <code>Test_*.StateDMI</code>) 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.

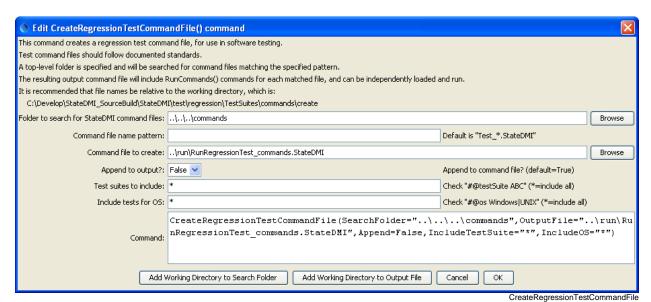
The following table lists tags that can be placed in # comments in command files to provide information for testing, for example:

#@expectedStatus Failure

Command # Comment Tags

Parameter	Description
@expectedStatus Failure	The RunCommands() command ExpectedStatus
@expectedStatus Warning	parameter is by default Success. However, a different status can be 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 For example, if a command is obsolete and should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
@os UNIX	and will 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 always included (see also the
	handling of included test suites).
@testSuite ABC	Indicate that the command file should be considered part of
	the specified test suite, as specified with the
	IncludeTestSuite 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	specified.
	special characters. A path relative to the command	
	file containing this command can be specified.	
SetupCommandFile	The name of a StateDMI command file that supplies	Do not include setup
	setup commands, and which will be prepended to	commands.
	output. Use such a file to open database connections	
	and set other global settings that apply to the entire	
	test run.	
FilenamePattern	Pattern for StateDMI command files, using wildcards.	Test_*.StateDMI
Append	Indicate whether to append to the output file (True)	True
	or overwrite (False). This allows multiple directory	
	trees to be searched for tests, where the first command	
	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.	
Include0S	If *, all tests that match FilenamePattern and	* – include all test

Parameter	Description	Default
	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 RunCommands () 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.StateDMI",
    Append=False)
```

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

```
StateDMI 3.08.02 (2009-09-29)
 # user:
                                         sam
 # date:
                                         Wed Sep 30 13:26:41 MDT 2009
 # host:
                                         SOPRIS
                                         C:\Develop\StateDMI_SourceBuild\StateDMI\test\regression\TestSuites\commands\run
 # command line: StateDMI
# The test status below may be PASS or FAIL.
# A test can pass even if the command file actual status is FAILURE, if failure is expected.
               Test
                                 Commands
                                                            Commands
               Pass/ Expected
                                                            Actual
     Num Fail
                                Status
                                                             Status
             PASS
                                 SUCCESS
                                                             SUCCESS
C:\Develop\StateDMI_SourceBuild\StateDMI\test\regression\commands\AggregateWellRights\Test_AggregateWellRights_rg2007part.StateDMI
2 PASS SUCCESS SUCCESS C:\Develop\StateDMI_SourceBuild\StateDMI\test\regression\commands\CalculateDiversionDemandTSMonthly\
                                                                                                  Test_CalculateDiversionDemandTSMonthly.StateDMI
                                 SUCCESS
                                                             SUCCESS
                                                                                         C:\Develop\StateDMI SourceBuild\StateDMI\test\regression\commands\CalculateDiversionDemandTSMonthlyAsMax\
        3 PASS
                                                                                                  Test_CalculateDiversionDemandTSMonthlyAsMax.StateDMI
        4 PASS
                                 SUCCESS
                                                             SUCCESS
                                                                                          C:\Develop\StateDMI_SourceBuild\StateDMI\test\regression\commands\CalculateDiversionStationEfficiencies\
                                                                                                  Test_CalculateDiversionStationEfficiencies.StateDMI
                                                                                         C:\Develop\StateDMI_SourceBuild\StateDMI\test\regression\commands\CalculateStreamEstimateCoefficients\
Test_CalculateStreamEstimateCoefficents_cm2005.StateDMI
               PASS
                                 warning
                                                             WARNING
               PASS
                                 warning
                                                              WARNING
                                                                                          {\tt C:\Develop\StateDMI\_SourceBuild\StateDMI\test\regression\commands\CalculateStreamEstimateCoefficients\test\columnwidth)} \\
                                                                                                  Test CalculateStreamEstimateCoefficients qm2004.StateDMI
        7 PASS
                                                             WARNING
                                                                                          {\tt C:\Develop\StateDMI\_SourceBuild\StateDMI\test\Fregression\Commands\CalculateStreamEstimateCoefficients\StateDMI\_SourceBuild\StateDMI\test\Fregression\StateDMI\_SourceBuild\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDMI\StateDM
                                 warning
                                                                                                  Test_CalculateStreamEstimateCoefficients_rg2007.StateDMI
```

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