



The LegiTest Toolbox

The LegiTest toolbox consists of three sets of tools: Assets, Actions and Assertions.

Assets

Category	Name	Description
Data Management	Comparison Manifest	Defines how one grid will be compared to another
Data Management	Connection	Defines a connection to a data source using an ADO.NET provider (which includes the ability to use OLE DB or ODBC)
Data Management	Grid Collection	Defines a collection of grids (datasets) that can be used in tests
SSIS	Package Reference	Defines a reference to an SSIS package (SSIS 2008 - 2014 are supported).
Data Management	Data Generation Solution	References an existing Data Generation plan that can be used to populate test data
Data Management	Query	Defines a query that can be used from tests
Data Management	Salesforce Connection	Defines a connection to a Salesforce instance
Data Management	Validation Manifest	Defines rules for validating a row in a grid.
Data Management	Text File	A reference to a text file
Data Management	T-SQL Backup / Restore	Defines a SQL statement that backs up or restores a database
Data Management	T-SQL Bulk Insert	Defines a SQL statement that executes a Bulk Insert operation

Assets are the resources that Actions will need to do their job. Examples might include connection strings, queries, etc.

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Actions

Category	Name	Description
Data Management	Execute Query Command	Executes a query with no response
Data Management	Execute Query Grid	Executes a query that returns a data set
Data Management	Execute Query Scalar	Executes a query that returns a single value
Data Management	Execute Salesforce Query Grid	Executes a query against Salesforce that returns a data set
SSIS	Execute Package	Executes an SSIS package.
Data Management	Data Generation	Executes a data generation plan
Data Management	Extract Grid Checksum	Calculates a checksum value based on an existing grid of information
Data Management	Get Grid Row Count	Gets the row count from an existing grid
Data Management	Load Grid From Asset	Loads a grid that has been defined in a Grid Collection
File System	Directory Copy	Copies a directory
File System	Directory Create	Creates a directory
File System	Directory Delete	Deletes a directory
File System	Directory Move	Moves a directory
File System	File Copy	Copies a file
File System	File Create	Creates a file
File System	File Delete	Deletes a file
File System	File Move	Moves a file
File System	File Line / Match Count	Counts the lines of text in a file, or alternatively only the lines that match a regular expression
Miscellaneous	Execute Process	Runs a Windows process
Miscellaneous	Load Asset	Loads an asset to be used by other actions
Miscellaneous	Read Historical Results	In conjunction with LegiTest Server, enables previously stored test results to be retrieved.
Miscellaneous	Timing Start	Begins timing an action or series of actions
Miscellaneous	Timing End	Ends the timing of an action or series of actions
Miscellaneous	XPath Extract	Used to extract a value from an XML file based on an XPath query.
SSAS	Process Cube	Processes an Analysis Services cube
SSAS	Process Database	Processes an entire Analysis Services database
SSAS	Process Dimension	Processes an Analysis Services dimension
SSIS	Execute Task	Executes a specific task within a package
SSIS	Get Properties	Reads a property value from the package. This includes the ability to read variable values.
SSIS	Set Properties	Sets the value of a property in an SSIS package. This includes the ability to set variable values.
SSIS	Load Package	Loads a package to be executed in the test.
SSRS	Execute Report	Executes an SSRS report

Actions use the Assets to perform an operation, or generate some type of output. For example they may execute a query to return a row count, process a cube, or execute a package.

Assertions

Category	Name	Description
Data Management	Grid Comparison	Compares two grids to determine if their contents are equal or contain acceptable differences
Data Management	Grid Validation Assertion	Performs validation on each row in a grid, based on the rules defined in the Validation Manifest asset
File System	Directory Existence	Determines whether a directory exists
File System	File Existence	Determines whether a file exists
File System	File Content Comparison	Compares a file to see if it has the expected content.
Miscellaneous	Integer Comparison	Compares two integer values. Includes the ability accept differences that are within a specified tolerance.
Miscellaneous	Scalar Comparison	Compares two scalar values
Miscellaneous	Range Check	Checks a numeric value to see if it falls inside an expected range of values

Assertions are used to test the results of Actions. For example, we might use an integer assert to compare a row count with some predetermined value or with the row count from another table.



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