Command Reference: WriteTableToExcel()

Write a table to a Microsoft Excel workbook file

Version 10.29.00, 2014-05-05

This command is under development.

The WriteTableToExcel () command writes a table to a worksheet in a Microsoft Excel workbook file. A contiguous block of cells (rectangle) must be specified in one of the following ways to receive the table:

- Specify the upper-left cell in a range of cells using Excel address notation (e.g., A1)
- Specify a range of cells using Excel address notation (e.g., A1:D10)
- Specify the name of an Excel named range.
- Specify a table name (essentially a named range).

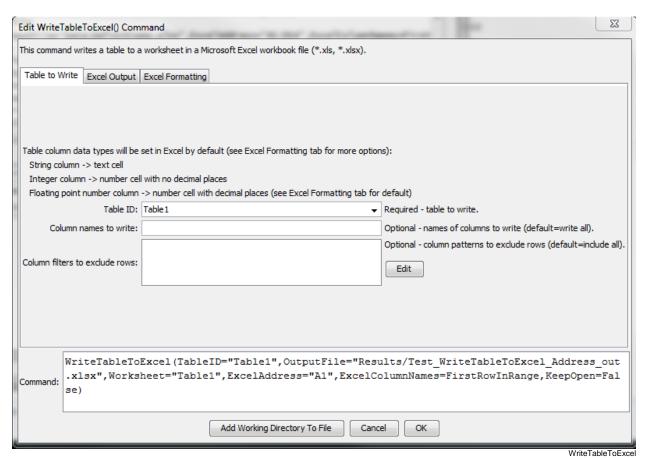
TSTool uses the Apache POI software, version 3.9 (http://poi.apache.org) to read/write the Excel file and consequently functionality is constrained by the features of that software package.

The following are limitations of this command:

- Currently only the upper-left cell is utilized but in the future the range may be used to limit output.
- Cell data types are determined from the table columns being written. In the future a parameter may be provided to allow option of using original Excel formatting.

WriteTableToExcel Excel

The following figures illustrate the dialog used to edit the command and the syntax for the command.



WriteTableToExcel() Command Editor

Table to Write Excel Output Excel Formatting Currently the Excel file must exist - use the NewExcelWorkbook command if necessary to create the workbook file. It is recommended that the location of the Excel file be specified using a path relative to the working directory. The working directory is: C:\DevRiv\TSTool_SourceBuild\TSTool\test\gegression\commands\general\WriteTableToExcel A contiguous block of Excel cells must be specified using one of the address methods below. Column names from the table will be written to Excel if ExcelColumnNames is specified as other than None. Output (workbook) file: Results/Test_WriteTableToExcel_Address_out.xlsx Browse Worksheet: Table 1 Required (if not in address) - worksheet name (default=first sheet). -Specify the address for a contigous block of cells the in Excel worksheet (upper left is start) – by Excel Address by Named Range by Excel Table Name Excel address: A1 Excel cell block address in format A1 or A1:B2. Excel column names: | FirstRowInRange | 🔻 Optional - how to define Excel column names (default=None). Optional - indicate columns to set as named ranges (default=none). Column named ranges: Edit Keep file open?: False → Optional - keep Excel file open? (default=False).

WriteTableToExcel() Command Editor for Excel Output Parameters

Table to Write Excel C	utput Excel Formatting
	Optional - indicate columns to set cell types (default=Auto).
Column cell types:	Optional - indicate columns to set cell types (default=Auto).
column cen types.	Edit
	Optional - indicate column widths (default=Auto).
Column widths:	Edit
	Optional - indicate number column decimal places (default=from table).
Column decimal places:	Edit
	WriteTableToExcel_Excel

WriteTableToExcel() Command Editor for Excel Formatting Parameters

The command syntax is as follows:

WriteTableToExcel(Parameter=Value,...)

Command Parameters

Parameter	Description	Default
TableID	Identifier for table to write.	None – must be specified.
IncludeColumns	Names of columns in table to write.	Write all columns.
ColumnExclude	Indicate table column names and pattern to use to	Include all rows.
Filters	exclude rows. For example, exclude rows with	
	blanks in columns. The format of the parameter is:	
	ColumnName1:Pattern1,	
	ColumnName2:Pattern2,	
	where patterns can contain * to match a substring.	
OutputFile	The name of the Excel workbook file (*.xls or *.xlsx)	None – must be
	to write, as an absolute path or relative to the	specified.
	command file location. If the Excel file does not	
	exist it will be created.	
Worksheet	The name of the worksheet in the workbook to write.	Write to the first
	If the worksheet does not exist it will be created.	worksheet.
ExcelAddress	Indicates the block of cells to write, using Excel	Must specify
	address notation (e.g., A1:D10).	address using one
		of available address
		parameters.
ExcelNamedRange	Indicates the block of cells to write, using an Excel	Must specify
	named range.	address using one
		of available address
		parameters.
ExcelTableName	Indicates the block of cells to write, using an Excel	Must specify
	named range.	address using one
		of available address
		parameters.

Parameter	Description	Default
ExcelColumn Names	Indicate how to determine the column names for the Excel table (in order to not overwrite with data rows), one of: • FirstRowInRange – column names are written to the first row in the Excel address range • None – column names are not written • RowBeforeRange – column names are written to the row before the Excel address range	None
ColumnNamedRange s	The map of column names to named ranges, useful when the column of values is used as choices in Excel data validation.	No named ranges will be defined.
Keep0pen	Indicate whether to keep the Excel file open (True) or close after creating (False). Keeping the file open will increase performance because later commands will not need to reread the workbook. Make sure to close the file in the last Excel command.	False
ColumnCellTypes	Column names and corresponding cell types using notation: ColumnName1:CellType1,ColumnName2:CellType2. Column name can be Default to set the default for all output columns. Supported cell types are: Auto – determine cell type from table column Text – Excel text cell	Auto
ColumnWidths	Column names and corresponding widths using notation: ColumnName1:Width1,ColumnName2:Width2. Column name can be Default to set the default for all output columns. Supported width values are: Auto – determine width from table contents N – number of 1/256 of character widths (maximum is 256*256)	Default column with determined by Excel.
ColumnDecimal Places	Column names and corresponding number of decimal places, for floating point numbers, using notation: ColumnName1:Num1,ColumnName2:Num2.	Determine from table column precision, or 6 if unable to determine from table.