

Spreadsheet Adapter

With the **Spreadsheet** adapter you can access Excel documents via their workbook-sheet-row-cell structure and create CSV files out of Excel documents.

The Spreadsheet adapter uses the [HSSF and XSSF](#) component of [Apache POI](#).

Example File (Builder project Spreadsheet):

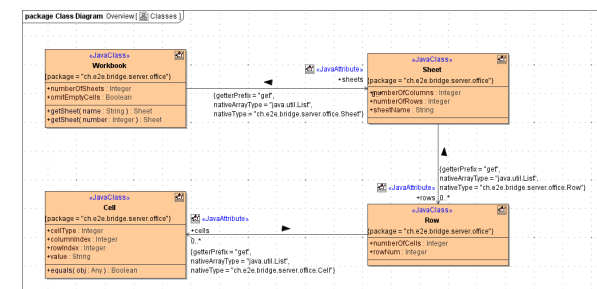


<your example path>\Libraries\Spreadsheet\uml\useLibSpreadsheet.xml

Data Model of the Spreadsheet Adapter

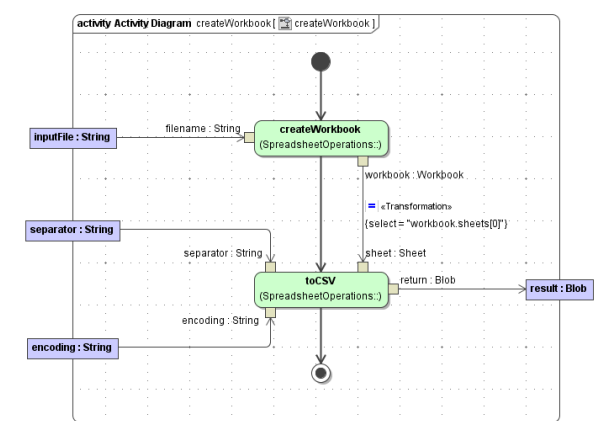
The adapter provides a data model (**Workbook**, **Sheet**, **Row**, **Cell**) representing the Excel document. This data model is created by calling one of the various **createWorkbook** operations.

Figure: Data Model of the Spreadsheet Adapter



Creating a Workbook

Figure: Activity for Creating a Workbook



createWorkbook(filename : String) : Workbook

returns a **Workbook** object (empty cells/rows are omitted)

Parameter	Direction	Description
filename	in	The filename of the Excel document.

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 - toCSV(sheet : Sheet, separator : String, encoding : String) : Blob

workbook	return	The Workbook object representing the Excel document.
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**createWorkbook(filename : String,
omitEmptyCells : Boolean) : Workbook**

returns a **Workbook** object

Parameter	Direction	Description
filename	in	The filename of the Excel document.
omitEmptyCells	in	If true, empty cells/row will be omitted from the returned Workbook object.
workbook	return	The Workbook object representing the Excel document.

createWorkbook(input : Blob) : Workbook

returns a **Workbook** object (empty cells/rows are omitted)

Parameter	Direction	Description
input	in	The blob holding the Excel document.
workbook	return	The Workbook object representing the Excel document.

**createWorkbook(input : Blob, omitEmptyCells :
Boolean) : Workbook**

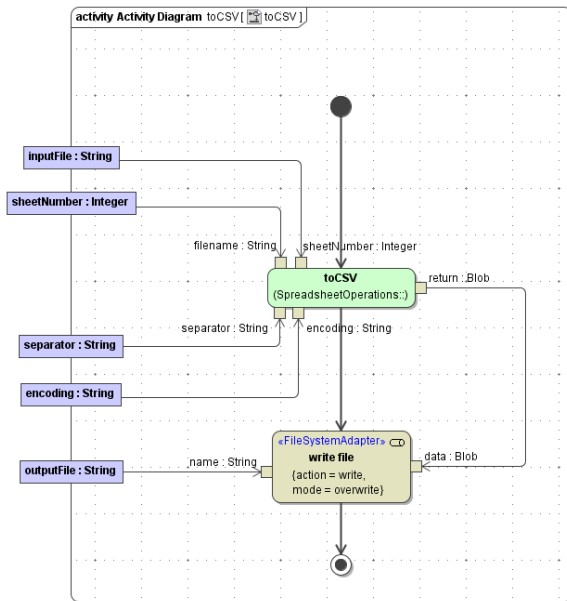
returns a **Workbook** object

Parameter	Direction	Description
input	in	The blob holding the Excel document.
omitEmptyCells	in	If true, empty cells/row will be omitted from the returned Workbook object.
workbook	return	The Workbook object representing the Excel document.

Generating CVS out of Excel Documents

The adapter provides various **toCVS** operations to generate CVS documents out of Excel documents.

Figure: Activity for Generating a CVS Document



toCSV(filename : String, sheetNumber : Integer, separator : String, encoding : String) : Blob

Parameter	Direction	Description
filename	in	The filename of the Excel document.
sheetNumber	in	The number of the worksheet to be converted.
separator	in	The separator character to be used in the CSV document(s).
encoding	in	The encoding (e.g. "utf-8") of the CSV data.
return	return	A blob holding the CSV data.

There are variants of this operation where *sheetNumber* (default: 0), *separator* (default: ,) or *encoding* do n't have to be set.

toCSV(workbook : Workbook, sheetNumber : Integer, separator : String, encoding : String) : Blob

Parameter	Direction	Description
workbook	in	The Excel workbook to be converted.
sheetNumber	in	The number of the worksheet to be converted.
separator	in	The separator character to be used in the CSV document(s).
encoding	in	The encoding (e.g. "utf-8") of the CSV data.
return	return	A blob holding the CSV data.

There are variants of this operation where *sheetNumber* (default: 0), *separator* (default: ,) or *encoding* do n't have to be set.

toCSV(sheet : Sheet, separator : String, encoding : String) : Blob

Parameter	Direction	Description
sheet	in	The Excel worksheet to be converted.
separator	in	The separator character to be used in the CSV document(s).
encoding	in	The encoding (e.g. "utf-8") of the CSV data.
return	return	A blob holding the CSV data.

There are variants of this operation where *separator* (default: ,) or *encoding* does not have to be set.

Extract the **javadoc** folder from **spreadsheetadapter.jar** to get additional information on the Java methods wrapped by this adapter.