



Name:	ODOT_SplitSheets.mvba
Tested MicroStation Version:	MicroStation v8i (Select Series 3)

## Description

The ODOT\_SplitSheets.mvba is a Visual Basic Application developed to split multiple plan sheets in a model to separate models for each plan sheet.

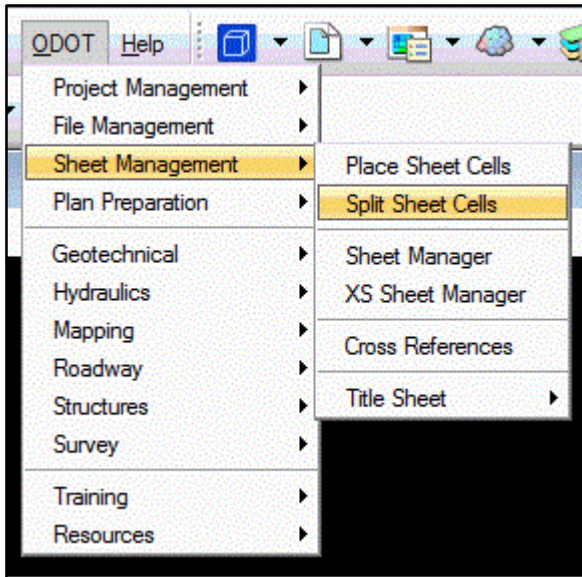
The file can be found in the following place:

ODOTcadd Standards: ODOTcadd/Standards/vba

The main purpose of this documentation is to explain how to use this application.

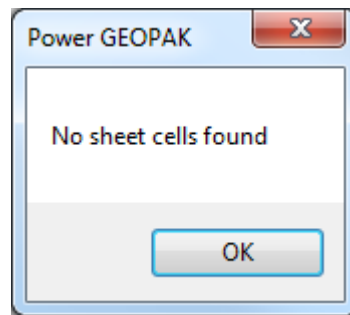
## Loading the Application:

To load the ODOT\_SplitSheets.mvba open MicroStation and under the ODOT tab select Sheet Management then split sheets. Or by entering the following keyin command.



*vba load ODOT\_SplitSheets.mvba; run runSheetSplit.*

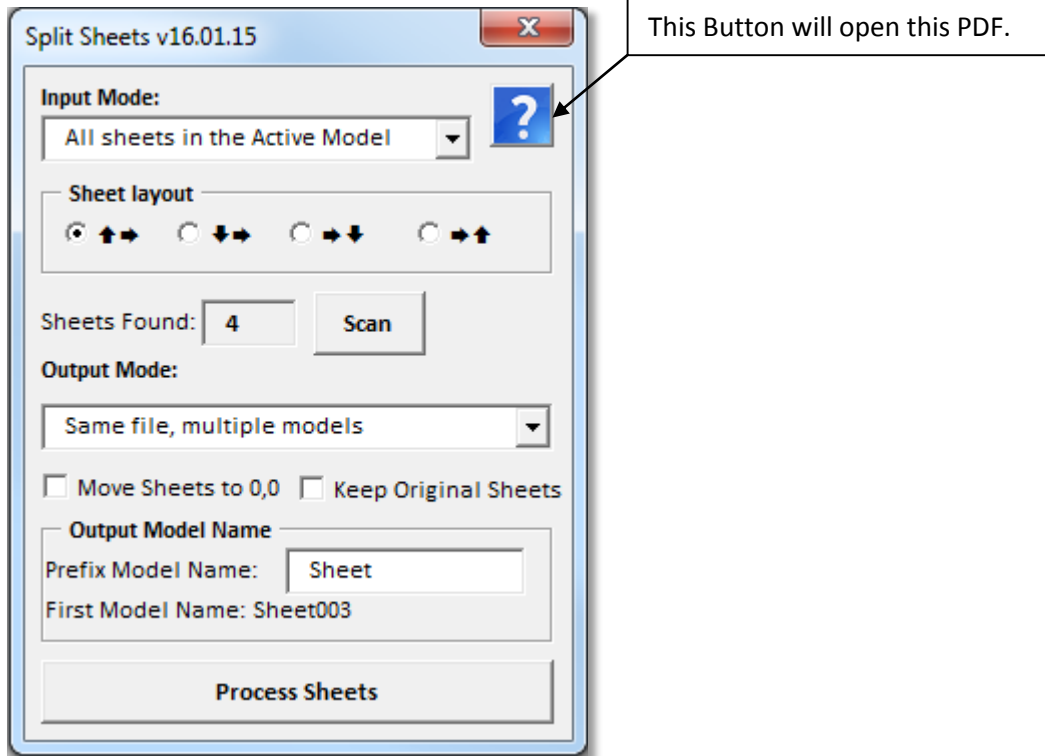
The code will first check for sheet cells in the active model. If none are found the following dialog will appear. The application will not open if there is not at least one sheet cell found in the active model.





## Application Operation

When loaded the dialog shown below will appear.



### Input Mode:

There are two Input Modes.

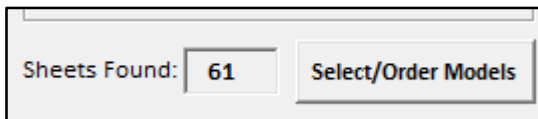
#### *All sheets in the Active Model*

This mode will split out only the sheet cells found in the active model.

#### *Select Models in Active File*

This mode will split out all sheet cells found in all models listed in the [Select/Order Models to process dialog](#). When this mode is selected the dialog changes as shown below.

The button that says [Scan](#) in the image above is changed to a button labeled [Select/Order Models](#). This button will bring up a dialog with all the drawing and sheet models in the active file. The [Sheets Found text box](#) is updated with the number of sheet cells found in all the models listed in the [Select/Order Models to process dialog](#).



### Sheet layout:

This section of the dialog has four option buttons. The code will use the selected option button to set the order of the sheet cells found in each model. A tolerance has been added to distinguish columns and rows since each sheet cell is not always placed exactly in line with others. The tolerance is plus or minus half the length of the first sheet cell in a given column or row.



This option button will order the sheet cells starting from the bottom left going up for the first column of sheets. Then it will move to the right to find the next column and order those sheet cells from bottom to top and then repeat for all remaining columns.



This option button will order the sheet cells starting from the top left going down for the first column of sheets. Then it will move to the right to find the next column and order those sheet cells from top to bottom and the repeat for all remaining columns.



This option button will order the sheet cells starting from the top left going across (to the right) for the top most row of sheets. Then it will move down to find the next row and order those sheet cells from left to right and then repeat for all remaining rows.



This option button will order the sheet cells starting from the bottom left going across (to the right) for the bottom most row of sheets. Then it will move up to find the next row and order those sheet cells from left to right and then repeat for all remaining rows.

### Sheets Found Text Box:

This textbox is populated with the number of sheet cells found. The number of sheet cells found is dependent on the input mode.

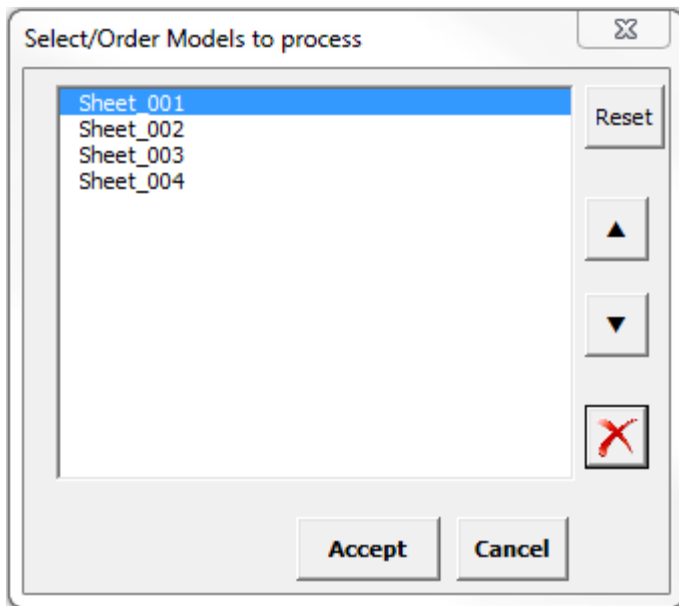
### Scan Button:

This button is only shown when the [Input Mode](#) is set to [All Sheets in Active Model](#). When this button is selected the [Sheets Found Text Box](#) will be repopulated with the total number of sheet cells found in the active model.



### Select/Order Models Button:


This button will open the [Select/Order Models to process dialog](#). The [Sheets Found Text Box](#) is updated when the [Select/Order Models to process dialog](#) is closed.


### Select/Order Models to Process Dialog:

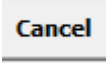


This dialog will list all the drawing or sheet models in the active file. The order the models are listed is the order in which the models will be processed. For this reason

the  and  buttons are used to move the selected model up or down in the list.

The  button is used to remove the selected model from the list.

The  button will reset the list to show all the drawing or sheet models in the active file.

If the  button is selected then any changes made to the list will not be saved and the dialog will close. Changes are only saved when the



Accept

button is selected. At that time the dialog will close and the [Sheets Found Text Box](#) will be updated with the total number of sheet cells found an all the models listed in the Select/Order Models to Process Dialog.

### Output Mode:

There are three output modes.

#### Same file, multiple models

This mode will output all the sheets set in the input mode to separate models in the active file. So each sheet will be in its own sheet model in the active file. The model names are set in the [Output Model Name Section](#).

#### 1 new file, multiple models

This mode will output all the sheets set in the input mode to separate models in a new file. So each sheet will be in its own sheet model all in one new file. The model names are set in the [Output Model Name Section](#). The File Name is set in the [Output File name Section](#).

#### 1 sheet per file

This mode will output all the sheets set in the input mode to separate models each in a new file. So each sheet will be in its own sheet model in its own file. The model names are set in the [Output Model Name Section](#). The File Names is set in the [Output File Name Section](#).

#### Move Sheets to 0, 0 Checkbox

Move Sheets to 0,0

This checkbox if checked will move the outputted sheets to 0,0 in each model. If it is not checked then the sheets are left at their current location in the model.

#### Keep Original Sheets

Keep Original Sheets

This checkbox if checked will keep the original sheets set in the input mode. If it is not checked then the original sheets and models set in the input mode will be deleted after processing sheets.

#### Output Model Name Section

This section is used to set the new model names. The text entered in the prefix model name text box is used to name the new models. To prevent duplicate model names in the same file a 3 digit number is added to the end of the model name. This number is figured out

programmatically. The first model Name will list the prefix model name with the 3 digit number for the first outputted model. This name is updated when the output mode is changed.


#### Output File Name Section

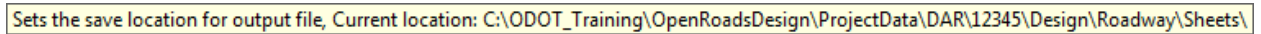
This section is only displayed in the dialog when [1 new file, multiple models](#) or [1 sheet per file](#) output modes are selected. The textbox is populated with the active file name but the right 7 characters are removed. For example if the active file name is 84868\_XS002.dgn, the

002.dgn is dropped from the name and only 84868\_XS is populated in the PID\_Character Code text box. The file name should follow standard file naming conventions and be the PID number an underscore



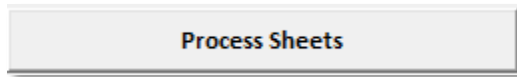
then a two character code. If the file name is not at least 3 characters long then the text box will be populated with PID\_XX by default. The user should change the text box to the desired file name. To prevent duplicate file names a 3 digit number is added to the end of the file name. This number is figured out programmatically. The 'First File Name:' will list the text from the 'PID\_Character Code:' text box with the 3 digit number for the first outputted file. This name is updated when the output mode is changed.

 This button is used to set save location for any new files to be created. By default this location will be the sheets folder of whatever discipline folder the active file is located. If the sheets folder cannot be found then the default location will be the location the active file is saved in. Hovering over the button will display a tool tip as shown below.

 Sets the save location for output file, Current location: C:\ODOT\_Training\OpenRoadsDesign\ProjectData\DAR\12345\Design\Roadway\Sheets\

Click on the button will open a folder browser where the user can select the desired folder to save the outputted files.

## Process Sheets Button



When this button is selected all the models set in the input mode will be processed. This will split out all found sheets to separate models.

## Contacts

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If you have any questions, suggestions, or problem with this application please contact the ODOT Office of CADD and Mapping Services by use of the following form on the ODOT website:

<http://www.dot.state.oh.us/Divisions/Engineering/CaddMapping/CADD/Pages/Suggestions.aspx>

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