

Row2Variables - How to use guide

Description

Row2Variables is an app that allows you to select a XLSX, XLS, CSV, or TXT (tab/semicolon delimited) spreadsheet and then locate and parse a row using a specific value for the lookup. All the data for that row per column is set to private data variables using the column header names as the private data key tags.

Use Cases

1. Get all pre-press, routing and processing requirements for specific job types without having an XML/JDF sidecar file or database connection.

Property	Value	
Element type	Row2Variables	
Name	Row2Variables	
Description		
Fixed or dynamic spreadsheet	Dynamic	
Lookup spreadsheet	Single-line text with variables defined	
Lookup column	Single-line text with variables defined	
Lookup value	BC-CO-123	
Allow empty cells	True	

	A	B	C	D	E	F
1	SKU	Size	Sheetsize	Up	Profile	Printer
2	BC-CO-123	3.5x2	18x12		24 CMYK	Indigo
3	LET-CO-456	8.5x11	18x13		2 CMYK	Epson
4						
5						
6						

2. Use a company name or brand ID as a key to find data within the spreadsheet to build a dynamic email template and set up custom branding within the PDF Review Module.

Property	Value	
Element type	Row2Variables	
Name	Row2Variables	
Description		
Fixed or dynamic spreadsheet	Fixed	
Lookup spreadsheet	C:/App/Branding.xlsx	
Lookup column	A	
Lookup value	Company A	
Allow empty cells	True	

	A	B	C	D
1	Company Name	Branding ID	Email Logo Path	Email Font Color
2	Company A	1	"C:\App\Logo\companya.png"	#ff0000
3	Company B	2	"C:\App\Logo\companyb.png"	#00ff00
4				

3. Using file naming conventions or Switch variables, create or remap values such as media/substrate, simplex/duplex settings and quantities from the originally submitted format to that required for output device properties in Configurators or Apps.

Property	Value	
Element type	Row2Variables	
Name	Row2Variables	
Description		
Fixed or dynamic spreadsheet	Fixed	
Lookup spreadsheet	C:/App/Naming Conventions.xlsx	
Lookup column	A	
Lookup value	70# Uncoated	
Allow empty cells	True	

	A	B
1	Media Name	Media Name Formatted
2	70# Uncoated	ws-70-uncoated
3	80# Coated	ws-80-coated
4		

4. Using exported data or reports from 3rd party software, extract values such as ink levels or up-time to build notifications for the current state of any/all presses.

Property	Value	
Element type	Row2Variables	
Name	Row2Variables	
Description		
Fixed or dynamic spreadsheet	Fixed	
Lookup spreadsheet	C:/App/PressData.txt	
Lookup column	A	
Lookup value	Indigo	
Allow empty cells	True	

Press	Ink Level	Up Time
Indigo	100%	20 Hours
Heidelberg	87%	15 Hours

Private Data Keys Information

A private data variable is job-specific metadata that is stored in the internal job ticket of a given Switch job using a key/value system. Once a private data variable is attached to a job it can be accessed anywhere within Enfocus Switch by using this Switch variable:

[Job.PrivateData:Key="namePrivateDataKey"].

To access the private data variable(s) once the file has successfully passed through the element you will use the column header value(s) as your key(s). Please note that if a header value contains a carriage return, the carriage return will be removed from the private data key. For example, if your column header in the spreadsheet was "Column (carriage return) Name" it would become "ColumnName" as a private data key.

Compatibility

This app is compatible with Enfocus Switch 2021 Spring or later.

Properties

- Fixed or dynamic spreadsheet - This property allows you to choose between **Fixed** or **Dynamic** using a dropdown and based on the chosen option it will determine what property editors you can use for lookup spreadsheet and lookup column. Please note the spreadsheet extension is validated to see if it is an allowed file type or not.

Property	Value	Property	Value
Element type	Row2Variables	Element type	Row2Variables
Name	Row2Variables	Name	Row2Variables
Description		Description	
Fixed or dynamic spreadsheet	Fixed	Fixed or dynamic spreadsheet	Dynamic
<i>Lookup spreadsheet</i>	C:/App/Branding.xlsx	<i>Lookup spreadsheet</i>	Single-line text with variables defined
<i>Lookup column</i>	A	<i>Lookup column</i>	Single-line text with variables defined
Lookup value	Company A	Lookup value	BC-CO-123
Allow empty cells	True	Allow empty cells	True

- Lookup spreadsheet - This property will allow you to choose how to build the path to the XLSX, XLS, CSV or TXT (tab/semicolon delimited) spreadsheet based on whether the **Fixed** or **Dynamic** option was selected. The "Choose file" editor is only available if **Fixed** was chosen as the option. For the latter the available editors are inline value, single line text with variables, and script expression. If the **Dynamic** option has been selected you can use the Switch variable [Job.Path] as your path to use the incoming job as the lookup spreadsheet.
 - Choose file - Select your spreadsheet that you will look up against.
 - Inline value - Type in the spreadsheet path.
 - Ex - "C:\App\Branding.xlsx"
 - Ex - "/Users/USER/App/Branding.xlsx"
 - Single line text with variables - You can dynamically build the spreadsheet path based on a Switch variable.
 - Script expression - Use JavaScript to build the spreadsheet path.

- Lookup column - This property requires the column letter that will be used to compare the lookup value to within the spreadsheet. Based on whether **Fixed** or **Dynamic** was selected there will be one editor added or removed from the property editor list. “Select from library” is only available if you choose the **Fixed** option whereas the other editors are available in both options. Please note the column letter is validated to see if it exists within the spreadsheet.
 - Inline value - Type in the column letter
 - Ex - A, B, C, D, E, etc...
 - Select from library - This will create a list of all column letters that contain a value.
 - Single line text with variables - You can dynamically set the column letter based on a Switch variable.
 - Script expression - Use JavaScript to determine the column letter.
- Lookup Value - This property is the value you want to use to lookup against within the spreadsheet.
 - Inline value - Type in the value
 - Ex - Company A
 - Single line text with variables - You can dynamically set the value based on a Switch variable.
 - Script expression - Use JavaScript to determine the value.
- Allow empty cells - This property allows you to choose **True** or **False** using a dropdown menu.
 - True - This will bypass any row checks and the job will use the success connection route out of the app.
 - False - This will check to see if the selected row contains any missing column headers or row values. If one or more cells that are missing values are found within the selected row a private data variable is created called **missingValues** that will create a list of all affected column letters. The same functionality is in place for the header row and if one or more cells are blank a private data variable is created called **missingHeaders**. The job will then use the warning connection out of the app.

Outgoing Connections

- Success - The job will use this connection if no errors or warnings have been found.
- Warning - The job will use this connection if there are any missing values or headers. Please refer to “Allow Empty Cells” property for more details.
- Error - The job will use this connection if there are any errors and create a private data variable called **errorMessage** to explain what failed.