

## Dynamic Imposition

### Description

This app offers fully automated N-up imposition for digital presses with the sheet format of 458mm x 318mm, like the HP Indigo presses.

This app uses Callas pdfToolbox server as the imposition engine therefore you must have that program installed on your Switch server.

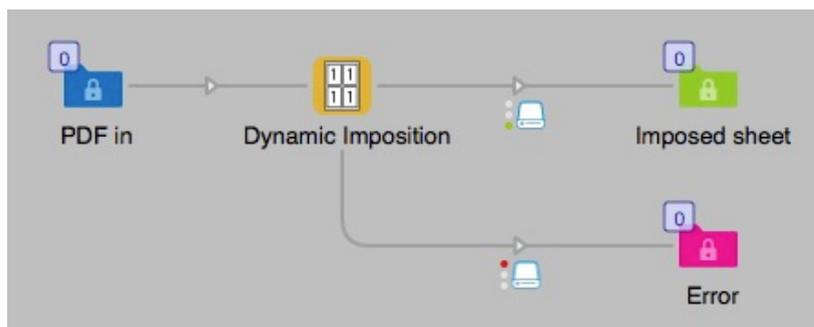
The app will analyze the incoming file's trim box size and try to fit as many pages on the sheet as possible. The only limit in page size (trim box) is that it must fit on the sheet. You can set the amount of bleed you want around each page slot and you can also set the gap size between each slot. If the page size of the job is very small, the maximum number of slots is limited to 24. The effective size that is used for placing pages is 438mm x 310 mm, giving a margin for crop marks and turning in the press.

The app only accepts jobs with a maximum of 2 pages, the idea is to support those small simple jobs of one or two pages such as leaflets, signs, letterhead, etc. Page one will be on one sheet and page two on the next sheet. Imposition scheme is n-up.

There is also a manual option where you can specify the number of vertical and horizontal slots and the orientation of the slots. By using this option you can easily create your own imposition schemes for special jobs. The only limit is that you can only have 24 slots on a sheet. In the manual case there is no check if the layout exceeds the available sheet area.

The app will also report the number of pages that has been imposed on the sheet through a Private data variable [**Job.PrivateData:Key="Number of slots"**]. The available Private data keys are: *Number of slots*, *Number of columns*, *Number of rows*. They can be used to report these values to your MIS to be able to calculate how many sheets should be printed.

By using Callas pdfToolbox server as the imposition engine you get an advantage compared to using HP Smartstream with InDesign as the imposition engine. First of all this app supports full parallel processes so you can run multiple concurrent jobs. Secondly, Callas pdfToolbox server does the job smarter by just positioning the pages on the sheet, there is no rendering of the incoming PDF. Overall this will give you a quick and automated imposing process for those common daily digital print jobs.



## Compatibility

Switch 13 update 1 and higher. Windows or Mac OSX.

### Compatibility third-party applications

The app requires Callas pdfToolbox server version 9.2 or higher to be installed on the system. It will use the CLI version of the program. The app will try to find the program in its normal installed locations, if that is not successful you can help the app find it by right clicking on the app icon in the app section of the Flow elements and choosing "Set path to application" and point to the Callas pdfToolbox server CLI application. This will then be remembered by the app.

## Connections

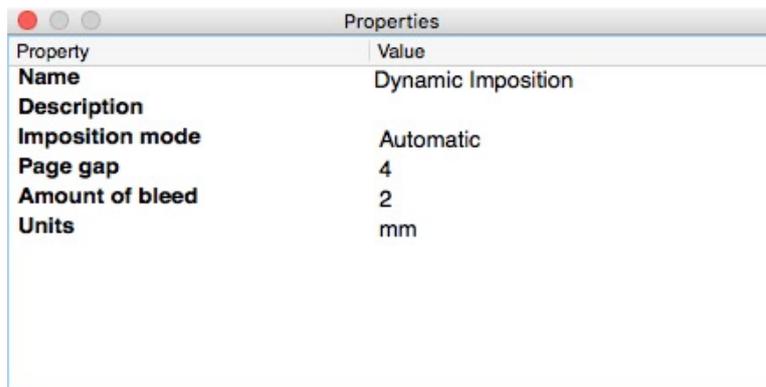
This app can have several input connections and has traffic-light outgoing connections.

## Properties detailed info

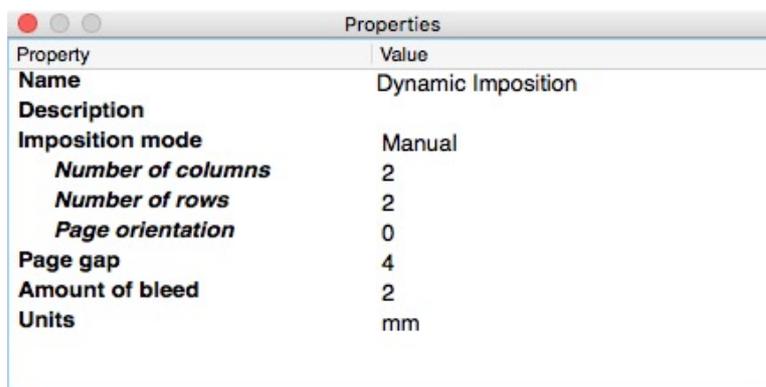
This app has only three properties if you run the automatic mode, the gap between slots on the sheet, the amount of bleed and the unit for them. In manual mode you get three more options. All properties can be accessed with variables.

## Flow element properties

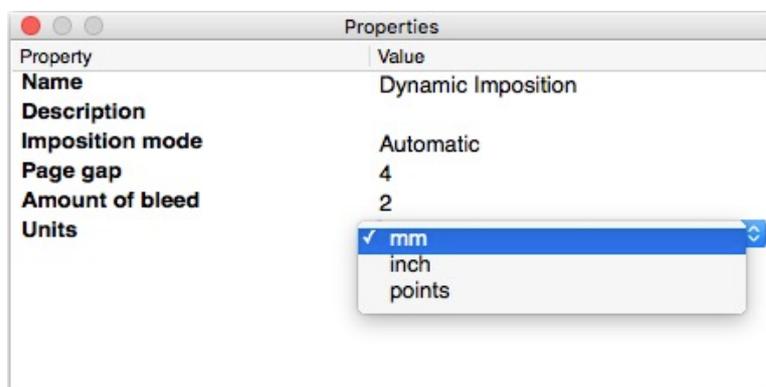
- Imposition mode
  - Automatic (default), in this mode the app will try to fit as many pages as possible on the sheet.
  - Manual, this allows you to set up your own number of columns and rows.
- Number of rows (only in manual mode)
  - The number of rows when running in manual imposition mode, 2 as default. Maximum value is 8.
- Number of columns (only in manual mode)
  - The number of columns when running in manual imposition mode, 2 as default. Maximum value is 5.  
Note that the maximum number of slots is 24, so when the number of rows is 8, the number of columns cannot be higher than 3.
- Page orientation (only in manual mode)
  - You can select 0° or 90° for this option to set the rotation of the page slots on the sheet. The default is 0°.
- Page gap
  - The distance between the trim boxes of each page on the sheet, the default is set to 4. Commas are not allowed as the decimal separator.
- Amount of bleed
  - The bleed value for each page. If the bleed value is larger than half of the page gap, it will be recalculated to half of the page gap. This value has no influence on the bleed value of the incoming PDF, it will just crop the bleed on the print sheet. If there is no bleed in the document the bleed area will be empty. Commas are not allowed as the decimal separator. The default is set to 2
- Units
  - The units used for the page gap and bleed properties. It is a dropdown menu with the selection of mm, inch or points. Inches must be entered in decimal numbers, like 0.125 for 1/8". Commas are not allowed as the decimal separator. The default is set to mm.



Property	Value
<b>Name</b>	Dynamic Imposition
<b>Description</b>	
<b>Imposition mode</b>	Automatic
<b>Page gap</b>	4
<b>Amount of bleed</b>	2
<b>Units</b>	mm



Property	Value
<b>Name</b>	Dynamic Imposition
<b>Description</b>	
<b>Imposition mode</b>	Manual
<i>Number of columns</i>	2
<i>Number of rows</i>	2
<i>Page orientation</i>	0
<b>Page gap</b>	4
<b>Amount of bleed</b>	2
<b>Units</b>	mm



Property	Value
<b>Name</b>	Dynamic Imposition
<b>Description</b>	
<b>Imposition mode</b>	Automatic
<b>Page gap</b>	4
<b>Amount of bleed</b>	2
<b>Units</b>	mm

mm  
inch  
points

### Manual setting combinations

The table below shows the layouts that are currently possible with the manual setup. Certain combinations can only work in one way of rotation depending on page size. The maximum allowed number of columns is 5 and the number of rows it is 8. However, the total number of slots cannot exceed 24, if your settings results in more slots than 24 the properties are not valid and you will not be able to activate the flow.

*Note that in the manual mode there is no check if the layout fits on the sheet or not. You have to check this by yourself, preferably with a checkpoint in Switch.*

Columns \ Rows	1	2	3	4	5
1	X	X	X	X	X
2	X	X	X	X	X
3	X	X	X	X	X
4	X	X	X	X	X
5	X	X	X	X	
6	X	X	X	X	
7	X	X	X		
8	X	X	X		

### Preparing job files

For some type of impositions it might be necessary to rotate the second page 180° in relation to the first page for the final printed card to be correct. Operations like this have to take place before the job enters the app.

### Special requests

If you have any special requests for this app please contact us. It is easily adaptable to other sheet sizes if needed.