



— Release Notes

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 UltimateTech

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# Introduction

## Welcome to Ultimate Impostrip 2024.1

We are delighted to be able to release Ultimate Impostrip 2024.1 to you.

Highlights of this release include:

PDF/X Output Support

New Shape Mark

Improved support for Marks in Lanes

Improvements to Color Bars and Marks

Improved connectivity between Ultimate Impostrip and Ultimate Bindery

New Book of One Module (Chargeable option)

New CSV Batcher (Chargeable option)

Regards

The Ultimate Tech Team

# Information before you Install!

## Windows Server 2012 and 2012 R2 not supported

<https://learn.microsoft.com/en-us/lifecycle/announcements/windows-server-2012-r2-end-of-support>

Please note the that above operating systems have reached end of life at the end of 2023.

**Ultimate Impostrip 2024 and above will no longer run on these operating systems due to necessary technical updates required to keep our software modern and up to date.**

We would therefore advise any customers using these platforms to plan to migrate to a newer operating system to maintain their production integrity.

## Press Paper based Text marks may move

Due to the resolution of an issue regarding Barcode based text marks where the barcode size is set to zero, in such situations it is possible your mark will be in a different location to the previous versions. We would advise users who have such marks to verify the mark positions after updating to 2024.1.

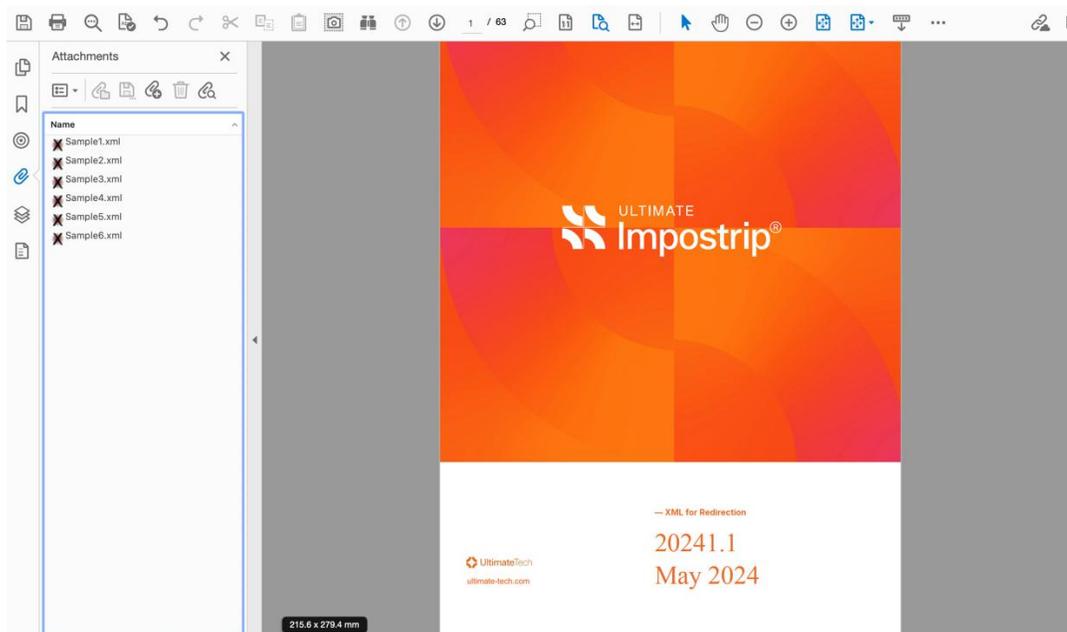
## Standard Paper sizes now added as default

The ANSI North American paper sizes and the European ISO B0-6, A0-6 and SRA paper sizes have been added by default to Ultimate Impostrip

## XML for Redirection now has attached XML samples

The XML for Redirection PDF documentation now has actual XML Samples as attachments.

These are the six XML examples that were previously written at the end of the previous documentation. These examples can be downloaded from the PDF with any good PDF viewer (below is Adobe Acrobat/Reader) and used for education or as a base for your own XML projects.



# New Features and Improvements

## Book of One Module (Chargeable option)

Book of One is an add-on module for Ultimate Imposstrip Scalable that supports continuous feed printing devices with inline finishing devices which have non-stop automatic change over between job sizes.

The module will sort, and batch incoming PDF jobs based on trim size and imposition layout and deliver these jobs to the print engine in the most optimal way to ensure the maximum production efficiency and the minimal amount of changeovers on the inline finishing device.

Additionally, the Book of One module will generate on-the-fly the necessary PDF transition jobs that provide a buffer for the finishing device to re-configure itself and change to the next job format. Book of One generates the required barcodes and information as specified by the finishing device of choice to enable it to prepare for the next job type.

The Book of One Module will deliver a batch of jobs to a DFE via a JDF file. The JDF includes a runlist containing the production sequence of the required jobs and their quantities and also the necessary transition jobs. A JDF runlist is utilized to ensure the DFE processes the jobs and transitions in the required sequence.

The Book of One Module delivers the most efficient sequence batch of jobs for printing and finishing by grouping similar jobs together, minimizing changeovers, but also ensuring any changeovers are done in the most efficient sequence for the finishing device. The batches of jobs to the DFE are released by a variety of options that can be configured by the user depending on their production requirements.

## New PDF/X Output Support

In this version of Imposstrip we include support for the output of imposed PDF files to the ISO international standards PDF/X-1a (ISO 15930-1:2001), PDF/X-3 (ISO 15930-3:2003) or PDF/X-4 (ISO 15930-7:2010).

We would consider this an 'expert' feature in Ultimate Imposstrip only to be used if you have a good understanding of PDF/X and color management and you have good quality control of PDF files within your workflow.

This section and the information contained within it only applies if you want to use the new PDF/X options, if you want to continue to use the existing Imposstrip PDF output methods, then nothing changes for you.

PDF/X are the PDF standards that have been developed specifically for the printing industry. The three versions supported vary in age, and also in their specification as they have been updated over the years as new functionality has been added to the PDF format and this functionality has been adopted by the printing industry.

You can also see that there are two other PDF/X versions that we are not currently supporting PDF/X-5 and PDF/X-6. These versions have gained little traction in the printing industry to date and are not supported by the main design applications such as Adobe Indesign and Adobe Illustrator. So, at this point in time we do not support them, but it is a possibility that PDF/X-6 may be added in the future.

We are also not supporting the 'p' version of PDF/X-4 where an ICC Profile for an Output Intent can be referenced instead of embedded.

	PDF/X-1a : 2001	PDF/X-3 : 2002	PDF/X-4 & 4p	PDF/X-5g, 5pg, & 5n	PDF/X-6, 6p, & 6n
Based on PDF version	<b>1.3</b> Acrobat 4	<b>1.3</b> Acrobat 4	<b>1.6</b> Acrobat 7	<b>1.6</b> Acrobat 7	<b>2.0</b>
Color Support	Device CMYK & Gray; Spot	Device CMYK & Gray; Spot; Color-Managed CMYK, Gray, & RGB	Device CMYK & Gray; Spot; Color-Managed CMYK, Gray, & RGB	Device CMYK & Gray; Spot; Color-Managed CMYK, Gray, & RGB	Device CMYK & Gray; Spot; Color-Managed CMYK, Gray, & RGB
Color Management	ICC Color Management (Output Profile/Condition)	ICC Color Management	ICC Color Management (External output profile for PDF/X-4p)	ICC Color Management (External output profile for PDF/X-5pg; n-colorant external profile for PDF/X-5n)	ICC Color Management (External output profile for PDF/X-6p; n-colorant external profile for PDF/X-6n)
Live Transparency	<b>NO</b> Application "flattened"	<b>NO</b> Application "flattened"	<b>YES</b>	<b>YES</b>	<b>YES</b>
Layer Support	<b>NO</b>	<b>NO</b>	<b>YES</b>	<b>YES</b>	<b>YES</b>
Page Independence & Random Access	<b>YES</b>	<b>YES</b>	<b>YES</b>	<b>YES</b>	<b>YES</b>
Blind Exchange	<b>YES</b>	<b>YES</b>	<b>YES</b> (PDF/X-4 only)	<b>NO</b>	<b>YES</b> (PDF/X-6 only)
Print Job Control	<b>External</b> (Possibly via JDF)	<b>External</b> (Possibly via JDF)	<b>External</b> (Possibly via JDF)	<b>External</b> (Possibly via JDF)	<b>External</b> (Possibly via DPart & JDF)
Annotations / Forms	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>YES</b> (with some limits)
Multiple Page Types / Production Metadata	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>YES</b> (Optional via DPart and Page Level Output Intents)
Normal Overall Characterization	<b>Device-Dependent</b>	<b>Device-Dependent</b> (due to flattened transparency)	<b>Device-Independent</b>	<b>Device-Independent</b>	<b>Device-Independent</b>

In the chart above you can see some of the major differences between the versions such as color spaces, the use of transparency and layers (optional content groups), but there are also constraints such as support for newer compressions such as JPEG 2000 and limitations on spot color usage and fonts that are not listed here. All PDF/X versions have the requirement that all necessary fonts are embedded.

You can also find more information about PDF/X on the following link. <https://pdfa.org/resource/iso-15930-pdfx/>

It's also worth mentioning that PDF/X does not specify parameters such as resolution and bleed. That is because PDF/X is designed to support all printing industry segments and as there are such different requirements regarding those options across the industry that it did not make sense to include them in the standard.

For instance, if you are printing a Billboard then an image resolution of 72ppi maybe perfectly acceptable, but if you are printing a booklet or brochure such a resolution would be considered an error.

PDF standards like these are quite challenging for an imposition solution as an imposed file can contain many different input files that are created by different applications and to many different PDF settings.

## Ultimate Impostrip PDF/X Output and best practices

The implementation of PDF/X output enables you to convert a non-PDF/X PDF and a PDF file of a different PDF/X flavor to another after imposition, however this is not recommended as certain color and file conversions may take place during this process to ensure conformance to the required PDF/X version.

The recommend way of using this new functionality is to manage your PDF files upfront of Ultimate Impostrip, and then input the type of PDF/X file you require to output. Managing files beforehand will mean you get predictable output without any conversion.

The reason for this recommendation is that we do not think an imposition solution is the place to be doing color conversions, transparency and layer flattening and other such functions. Those should be done upstream as part of your preflight standardization process and then the resulting PDF files delivered to Impostrip for layout and output for print.

## Managing PDF/X Output Intents

One important requirement of PDF/X is an Output intent, and in PDF/X-1a, PDF/X-3 and PDF/X-4 an Output Intent is document based so each PDF file must have a single Output Intent.

When you are then imposing several different PDF files together, potentially with different output intents, to make one new imposed PDF, some decisions clearly have to be made here, so it's very important to understand them.

Our approach in Imposstrip is two-fold. Imposstrip can take the existing Output Intent Dictionary from the first one it finds in the input PDF(s) and transfers that into the new Imposed PDF/X file that will be created.

You also have the option of using a completely different ICC profile as the Output Intent of the new PDF by selecting from a list of ICC Profiles and using that.

Selecting a new ICC Profile that is different from the original as an Output Intent can potentially create a color conversion when the file is output from Ultimate Imposstrip, so if you wish to use this approach, we recommend you test thoroughly first before implementing in production.

Important to know is that Ultimate Imposstrip will only allow you to select CMYK ICC Profiles as Output Intents. Some PDF/X standards will allow you to define RGB Output Intents, but we will not support that functionality.

It is important to have your color management under control and have a good level of quality control if you wish to use this option.

## PDF/X Functionality

One important requirement of PDF/X is an Output intent, and in PDF/X-1a, X3 and X4 an Output Intent is document based, so each PDF must have a single Output Intent in order to comply with the relevant PDF/X specification.

The screenshot shows the PDF/X settings interface. It includes a 'PDF' section with 'Use As Page Size' (PDF Trimbox), 'Page Alignment' (Center), 'Rotate' (0°), 'Built-in Marks On Black Separation Only' (off), and 'Use Isolation Groups' (on). Below that are 'PDF Compression for Output Size (1.5 or Higher)' (on), 'Use DLI Print Engine' (on), 'PDF X-Object Optimization' (on), and 'Embed Fonts' (off). The 'PDF/X' section has a toggle (on), 'PDF/X Version' (PDF/X-4 2008), and 'Output Intent Source' (Use First Found/No Fallback). At the bottom, the 'Optimization' section has 'Automatic PDF Rotation' (checked), 'Index First Page Only', and 'Optimize Color Indexing'.

### PDF/X Version

Here you would select the PDF/X version you wish to output. The options are PDF/X-1a 2001, PDF/X-3 2003 and PDF/X-4 2010. Be aware that if you input PDF file is not same as the PDF/X version specified, then some conversions and optimizations may take place. You can find out more about the possible changes [here](#).

### Output Intent Source

This option allows you to define the PDF Output Intent that will be used in the imposed output PDF. All the PDF/X versions that Ultimate Imposstrip supports use document-based output Intents, so each imposed PDF/X file must have only one output intent included.

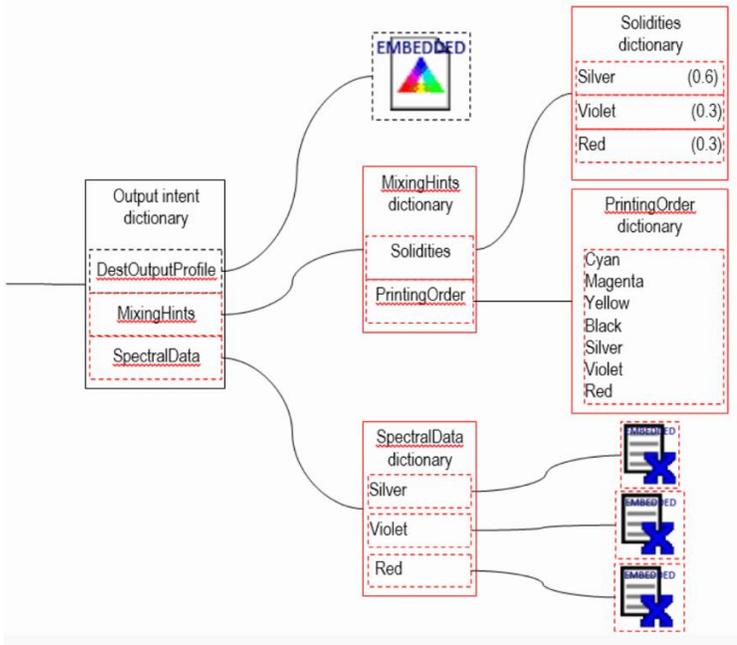
### Use First Found/No Fallback

This option takes the first output intent dictionary it finds from the input PDF files and then uses this as the output intent dictionary for the new imposed PDF file.

If the input files do not have an output intent dictionary, then the job will fail with an appropriate error message.

The benefit of copying the complete output intent dictionary is that we retain other information from the input PDF that might be pertinent for some workflows. These include the Printing Order dictionary, the Solidities dictionary and any Spectral (CXF) data.

Please remember though, this information will relate to only the first PDF in which it is found. If you have multiple files with multiple different CXF data, then you should try to merge these files and data into one PDF, so the data is retained in the Ultimate Imposstrip output.



[https://www.color.org/CxF\\_test.xalter](https://www.color.org/CxF_test.xalter)

### Use First Found/No Fallback

PDF	Use As Page Size	Page Alignment	Rotate	Built-in Marks On Black Separation Only	Use Isolation Groups
	PDF Trimbox	Center	0°	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	PDF Compression for Output Size (1.5 or higher)	Use DLI Print Engine	Optimize X-Objects	Optimize Fonts	Embed Fonts
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PDF/X	PDF/X Version	Output Intent Source		Output Intent	
	PDF/X-4 2008	Use First Found/Selected		Output Intent	

This output intent option allows to take the first output intent dictionary it finds from the input PDF files as in the previous case, but it gives you the option to define an ICC Profile to be used as an output intent if none can be found.

Depending on the PDF/X version and the output intent selected that may create some color conversions and changes to the PDF, you can find more information on potential changes [here](#).

### Use Selected

PDF	Use As Page Size	Page Alignment	Rotate	Built-in Marks On Black Separation Only	Use Isolation Groups
	PDF Trimbox	Center	0°	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	PDF Compression for Output Size (1.5 or higher)	Use DLI Print Engine	Optimize X-Objects	Optimize Fonts	Embed Fonts
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PDF/X	PDF/X Version	Output Intent Source		Output Intent	
	PDF/X-4 2008	Use Selected		Uncoated FOGRA29 (ISO 12647-2:2004)	

This Output Intent Source option will disregard any existing PDF Output Intents in the input PDF files and only use the ICC Profile that is selected here.

Again, please reference any potential changes in the PDF content based on this decision [here](#).

### Output Intent

This option allows you to select an ICC Profile to be used as an Output Intent. Only CMYK ICC Printer Profiles can be selected to use as Output Intents.

There are a standard set of Adobe and Industry ICC Profiles that are included in the Ultimate Imposstrip as standard, but you can add your own profiles to these if needed.

### ICC Profile Locations

Macintosh: Applications > Ultimate Technographics > Ultimate Imposstrip.app > Contents > Resources > APDFL > Resource > Color > Profiles

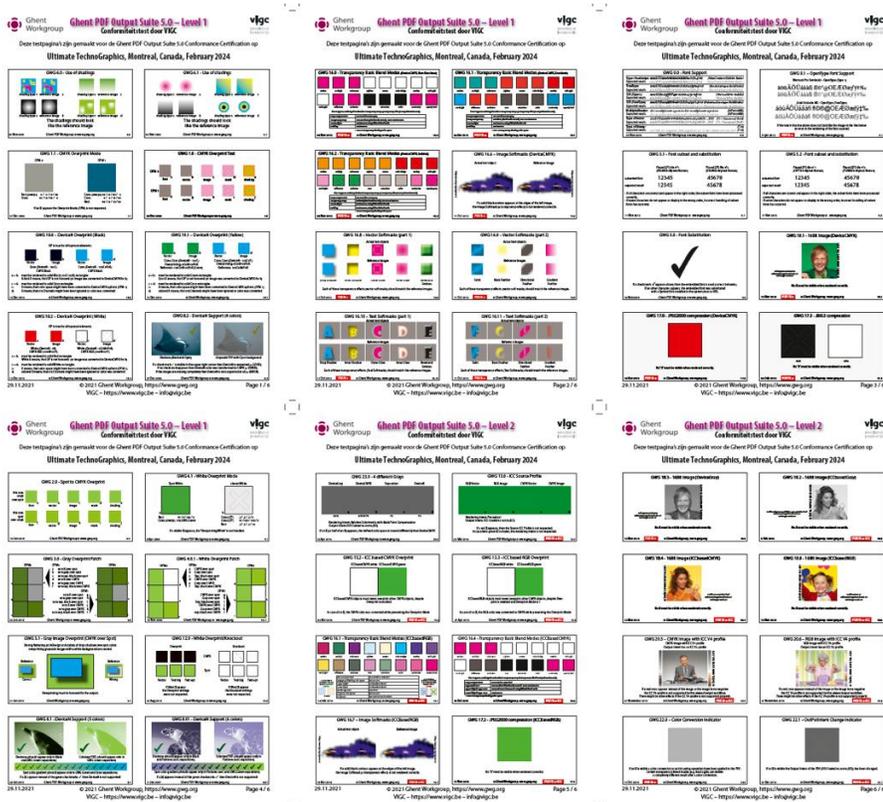
Windows: Program files > Ultimate Technographics > Ultimate Imposstrip > APDFL > Resource > Color > Profiles

## Ghent Work Group Output Suite 5.0 PDF/X-4 Compliance

Ultimate Imposstrip 2024.1 has passed the Ghent Output Suite test for PDF/X-4 compliance.

This is a PDF based test suite designed by the Ghent Workgroup that tests the readiness of PDF workflows, DFE's and PDF based applications with regards to handling, processing and output of PDF/X-4 files.

The test consists of a number of patches related to the many different PDF constructions and functionality that exist within the PDF/X-4 specification that an application must process and output without any changes or conversions and output a correct PDF/X-4. In the case of Imposstrip we imposed six individual pages up together as a single imposed sheet and output a PDF/X-4 file retaining the original output intent.



## PDF/X Output and potential conversions

If your input PDF or PDF/X file is different to the output PDF/X selected it's possible that some conversions or corrections maybe applied to the input file to meet the specification of the new output file.

Below are documented some examples of different input files and the corrections that would be applied.

PDF/X-1a 2001

PDF/X-1a Output	Output Intent Option	Output Intent Option	Output Intent Option
INPUT FILE TYPE	First/No Fallback	First/Selected	Selected
<b>PDF/X-1a</b>	Passed	Passed	Passed
CMYK	PRESERVED	PRESERVED	PRESERVED
Spots	PRESERVED	PRESERVED	PRESERVED
<b>PDF/X-3</b>	Passed	Passed	Passed
RGB ICC	Converted to CMYK (First OI)	Converted to CMYK (First OI)	Converted to CMYK (Selected OI)
CMYK	PRESERVED	PRESERVED	PRESERVED
CMYK ICC	DECALIBRATED	DECALIBRATED	DECALIBRATED
Spots	PRESERVED	PRESERVED	PRESERVED
<b>PDF/X-4</b>	Passed	Passed	Passed
Transparency	Flattened	Flattened	Flattened
Layers	Flattened	Flattened	Flattened
RGB ICC	Converted to CMYK (First OI)	Converted to CMYK (First OI)	Converted to CMYK (Selected OI)
CMYK	PRESERVED	PRESERVED	PRESERVED
CMYK ICC	DECALIBRATED	DECALIBRATED	DECALIBRATED
Spots	PRESERVED	PRESERVED	PRESERVED
<b>PDF 1.7 (Not PDF/X)</b>	NO OI Available	Passed	Passed
Transparency	na	Flattened	Flattened
Layers	na	Flattened	Flattened
RGB	na	Converted to CMYK (Selected OI)	Converted to CMYK (Selected OI)
RGB ICC	na	Converted to CMYK (Selected OI)	Converted to CMYK (Selected OI)
CMYK	na	PRESERVED	PRESERVED
CMYK ICC	na	DECALIBRATED	DECALIBRATED
Spots	na	PRESERVED	PRESERVED

PDF/X-3 2003

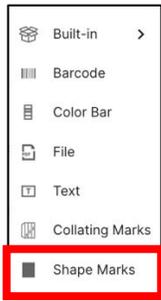
PDF/X-3 Output	Output Intent Option	Output Intent Option	Output Intent Option
INPUT FILE TYPE	First/No Fallback	First/Selected	Selected
<b>PDF/X-1a</b>	Passed	Passed	Passed
CMYK	PRESERVED	PRESERVED	PRESERVED (but Tagged with OI)
Spots	PRESERVED	PRESERVED	PRESERVED (but Tagged with OI)
<b>PDF/X-3</b>	Passed	Passed	Passed
RGB ICC	PRESERVED	PRESERVED	Converted to CMYK tagged with OI
CMYK	PRESERVED	PRESERVED	PRESERVED (but Tagged with OI)
CMYK ICC	PRESERVED	PRESERVED	Converted to CMYK by OI, but tagged with original profile
Spots	PRESERVED	PRESERVED	PRESERVED
<b>PDF/X-4</b>	Passed - X3	Passed - X3	Passed
Transparency	Flattened	Flattened	Flattened
Layers	Flattened	Flattened	Flattened
RGB ICC	PRESERVED	PRESERVED	Converted to CMYK tagged with OI
CMYK	PRESERVED	PRESERVED	Tagged with OI
CMYK ICC	PRESERVED	PRESERVED	Converted to CMYK by OI, but tagged with original profile
Spots	PRESERVED	PRESERVED	PRESERVED
<b>PDF 1.7 (Not PDF/X)</b>	NO OI Available	Passed	Passed
Transparency	na	Flattened	Flattened
Layers	na	Flattened	Flattened
RGB	na	Converted to CMYK tagged with OI	Converted to CMYK tagged with OI
RGB ICC	na	Converted to CMYK tagged with OI	Converted to CMYK tagged with OI
CMYK	na	Converted to CMYK tagged with OI	Converted to CMYK tagged with OI
CMYK ICC	na	PRESERVED with original Profile (Not OI)	PRESERVED with original Profile (Not OI)
Spots	na	PRESERVED	PRESERVED

PDF/X-4 2008

PDF/X-4 Output	Output Intent Option	Output Intent Option	Output Intent Option
INPUT FILE TYPE	First/No Fallback	First/Selected	Selected
<b>PDF/X-1a</b>	Passed	Passed	Passed
CMYK	PRESERVED	PRESERVED	PRESERVED
Spots	PRESERVED	PRESERVED	PRESERVED
<b>PDF/X-3</b>	Passed	Passed	Passed
Transparency	NA	NA	NA
Layers	NA	NA	NA
RGB ICC	PRESERVED	PRESERVED	Converted to CMYK (OI)
CMYK	PRESERVED	PRESERVED	PRESERVED
CMYK ICC	PRESERVED	PRESERVED	DECALIBRATED
Spots	PRESERVED	PRESERVED	PRESERVED
<b>PDF/X-4</b>	Passed	Passed	Passed
Transparency	PRESERVED	PRESERVED	PRESERVED
Layers	PRESERVED	PRESERVED	PRESERVED
RGB ICC	PRESERVED	PRESERVED	Converted to CMYK (OI)
CMYK	PRESERVED	PRESERVED	PRESERVED
CMYK ICC	PRESERVED	PRESERVED	DECALIBRATED
Spots	PRESERVED	PRESERVED	PRESERVED
<b>PDF 1.7 (Not PDF/x)</b>	<b>NO OI Available</b>	Passed	Passed
Transparency	na	PRESERVED	PRESERVED
Layers	na	PRESERVED	PRESERVED
RGB ICC	na	Converted to CMYK	Converted to CMYK
RGB	na	Converted to CMYK	Converted to CMYK
CMYK	na	PRESERVED	PRESERVED
CMYK ICC	na	Converted to CMYK	Converted to CMYK
Spots	na	PRESERVED	PRESERVED

# New Marks Design - Shape Mark

This is a new type of Mark that enables you to create Squares, Rectangles and Circles for use as Marks.



## Type

Type gives you the options of Circle or Rectangle. From Rectangle you can also create a Square Mark.

## PDF Layer Name

If you wish the Mark to appear on a certain Layer, you should enter the name here. If not leave this blank. If you wish to define a Layer, this can be a new one or an existing one. Naming must be exact if an existing one.

## Height/Width

If you select Rectangle, you can define the Height and Width of the Shape.

## Diameter

If you select Circle, you can define the Diameter of the Shape.

## White Border Size

You can define a White Border for both Shape Mark types if necessary.

## Drawing Method

You can define the Shape as a fill or a stroke, but not both.

Please note that 'Stroke' is not the same as a White Border, you can add a White Border to a Stroke if needed.

## Color Scheme

You can define a color(s) for the Shape Mark

## Knockout/Overprint

You can also define Knockout or Overprint settings for the Mark

A screenshot of a settings dialog box for a 'Circle' mark. The title is 'Type tag names and press enter'. Under 'Settings', the 'Type' is set to 'Circle'. There are input fields for 'PDF Layer Name', 'Diameter' (0 mm), and 'White Border Size' (0 mm). The 'Drawing Method' is set to 'Fill'.A screenshot of a settings dialog box for a 'Rectangle' mark. The title is 'EXPORT TO IMPOPACK® ARCHIVE...'. There are input fields for 'Name' (New Shape Mark), 'Description', and 'Enter a Tag'. Under 'Settings', the 'Type' is set to 'Rectangle'. There are input fields for 'PDF Layer Name', 'Height' (0 mm), 'Width' (0 mm), and 'White Border Size' (0 mm). The 'Drawing Method' is set to 'Fill'. At the bottom, there are 'Overprint' and 'Knock Out' buttons, and a 'Color' dropdown menu set to 'All Colors'.

# Tighter Ultimate Bindery integration

This new version includes the ability to take custom values defined in an upstream system and then transfer them via XML for Redirection into Impostrip, which then adds them to the JDF LayCrimp file which is passed to Ultimate Bindery. In Ultimate Bindery those values are recognized and can override the existing values an Ultimate Bindery finishing flow.

Example use cases are to use the values to define the different sizes of a cover and a book block making Bindery flows more flexible and dynamic.

There are also other cases such as paper thickness of cover and book block which can now be dynamic.

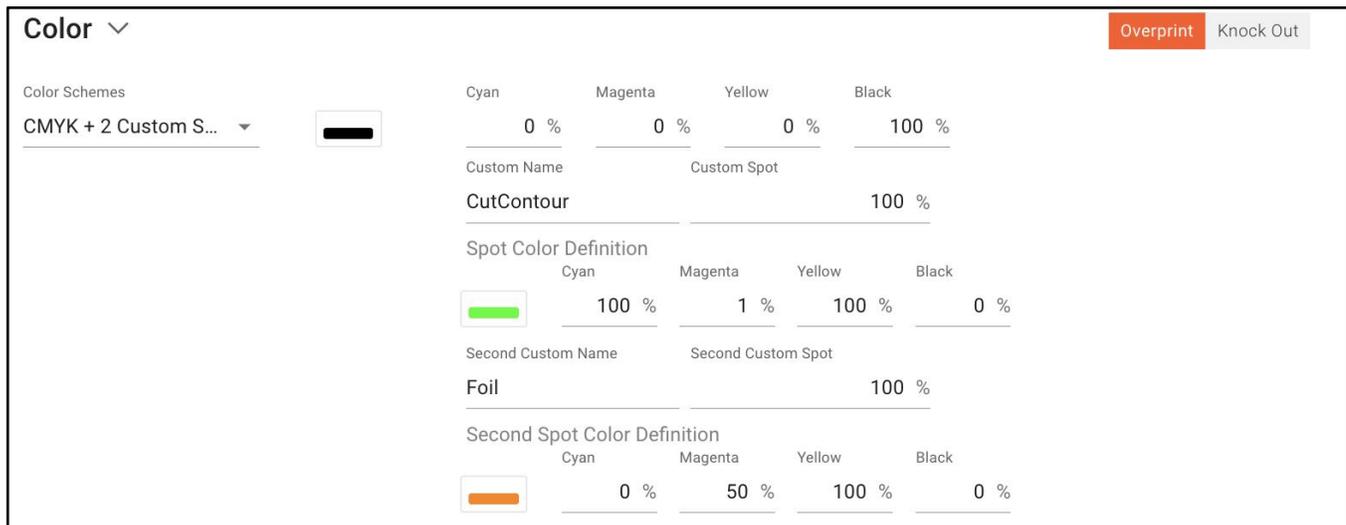
# Improvements to Custom Collating Marks

When working with Booklet Maker, the Custom Collating Mark now recognizes Section Groups not only Sheets.

# New Color Scheme - CMYK + 2 Spot Colors

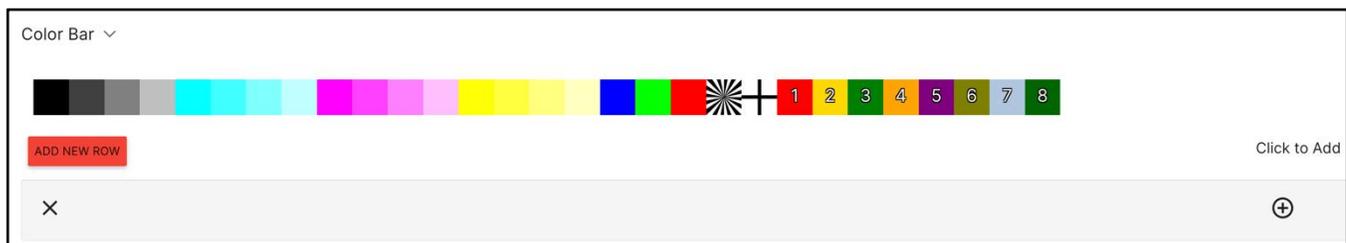
In the previous version of Impostrip we added an option for CMYK + 1 Spot Color for objects that needed to appear on a Print Separation and a Cut or Embellishment Separation.

In this version we add CMYK + 2 Spot Colors which is designed to be used for objects that need to appear on a Print Separation, a Cut Separation and an Embellishment Separation.



# Built-in Color Bar extended to support 8 Spot Colors

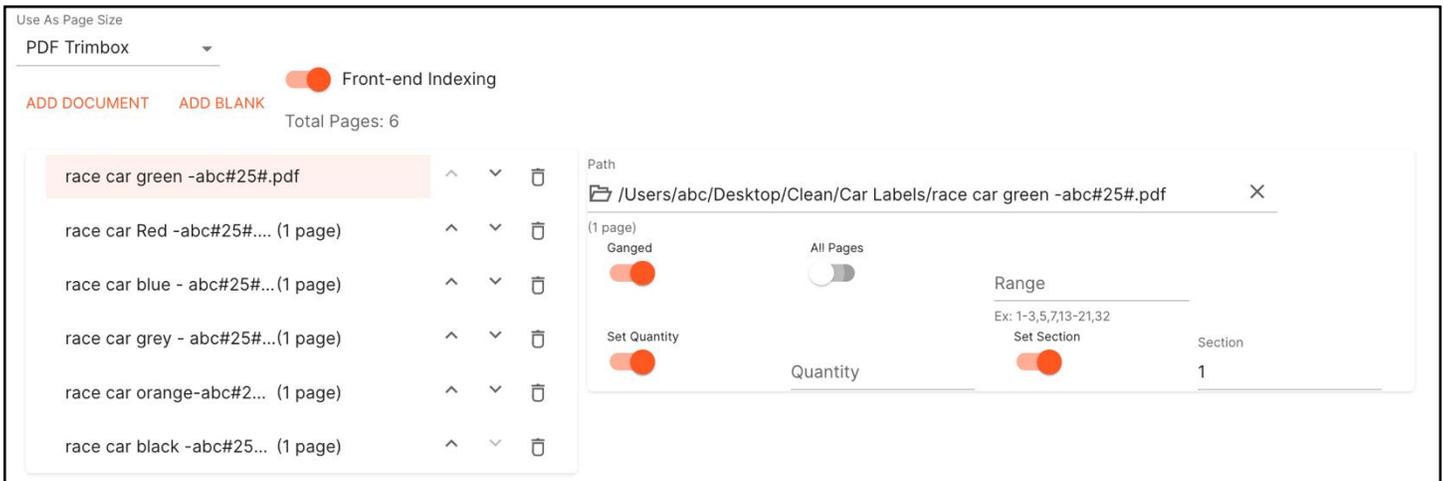
The built-in color bar has now been extended and supports up to 8 Spot colors.



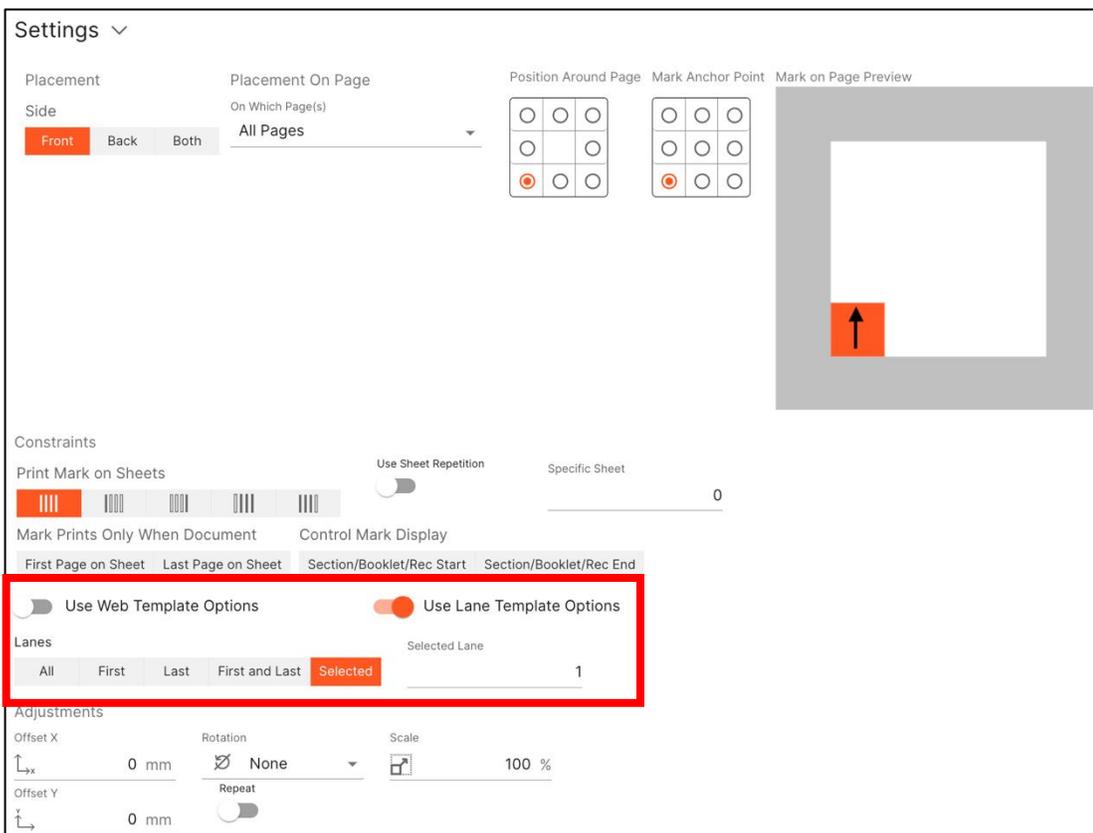
# Improvements to the Manual Jobs Interface

Manual jobs have an improved user interface with regards to the options available for each imported PDF file.

Some of these options were available before but were not openly visible. In this version we expose these options and also add a new additional option regarding Sections/Lane placement for the selected PDF file.



## Marks Profile – Lane based additions to Page Mark.



## Use Lane Template Options

When working with LaneFlow the placement of Page based marks takes on a new context as 'Lanes' must also be taken into consideration when placing content such as Eye Marks. Therefore, in this version we have added some new Lane based options to the Page Marks functionality enabling you to specify which pages in which lanes should have marks applied to them.

You can access these new options by enabling the option 'Use Lane Template Options' as shown above.

The new options are as follows:

### All

Add the defined mark(s) to pages in all Lanes.

### First

Add the defined mark(s) to pages in First Lane.

### Last

Add the defined mark(s) to pages in Last Lane.

### First and Last

Add the defined mark(s) to pages in both the First and the Last Lane.

### Selected

Add the defined mark(s) to pages to the defined lane. You can only define one lane.

This value can be a positive or a negative number. Positive values will count from left to right starting at '1'. Negative values will count from right to left starting at '-1'.

## Marks Profile - New Lane Placement

### Marks Profile - Lane Selection

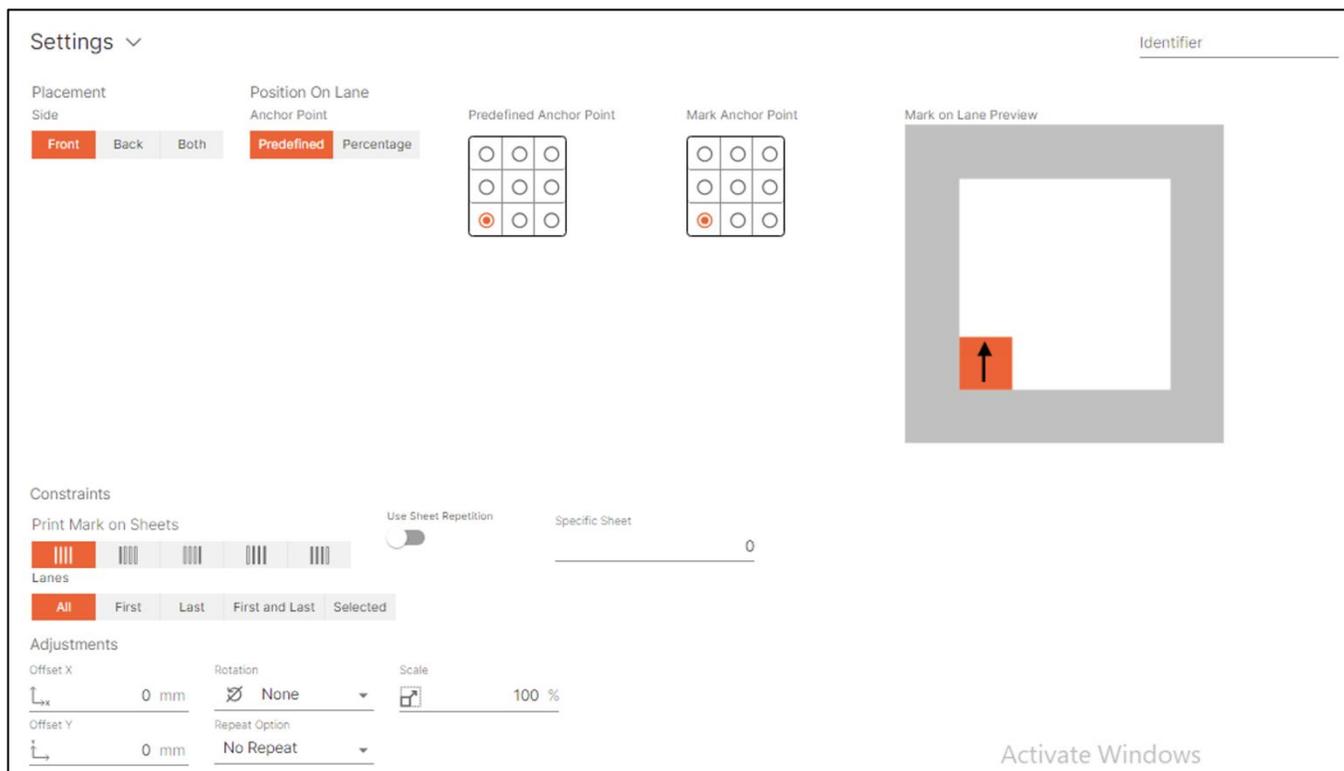
When adding a Marks Design to a Mark Profile you have a new option, 'Lane'.

Lane Marks are for use with the 'Laneflow' Imposition type.



### Marks Profile - Lane Configuration

Lane Marks allow you to specify a Mark to appear in relation to a Lane, this functionality is for use with the LaneFlow imposition type as that is lane based. As LaneFlow is a template-less imposition the marks are designed to be dynamic and be configurable so you can predictably achieve the results you require.



## Constraints

### Print Mark on Sheets

Marks can be applied on all sheets, on the first sheet only, on the last sheet only, on all sheets but first sheet and on all sheets but last sheet.

### Use Sheet Repetition

Marks can be repeated according to the preferences of the user. (Ex: I want the mark to be printed on the 2<sup>nd</sup> sheet, and every 10 sheets after).

### Specific Sheet

This option allows you to define a mark to appear on a specific sheet.

You can define the sheet with a positive value, which will count from the first imposed sheet in the Imposition, or you can enter a negative value which will count from the last imposed sheet.

The latter is a very useful approach, as if you always want a mark on the last sheet you would add '-1', if you wanted the last but one sheet (penultimate) then enter '-2'. The mark will then appear on the required sheet no matter the number of sheets in the imposition.

## Lanes

Allows you to specify which Lane(s) the mark(s) is placed.

### All

Add the defined mark(s) in all Lanes.

### First

Add the defined mark(s) in the First Lane.

### Last

Add the defined mark(s) in the Last Lane.

### First and Last

Add the defined mark(s) in both the First and the Last Lane.

### Selected

Add the defined mark(s) in the defined lane. You can only define one lane.

This value can be a positive or a negative number. Positive values will count from left to right starting at '1'. Negative values will count from right to left starting at '-1'.

## Adjustments

This part is used to adjust the position, size and rotation of a mark. Position adjustments use the anchor point where is tagged as the reference from which it will move.

Adjustments		
Offset X	0 mm	Rotation
		None ▼
Offset Y	0 mm	Scale
		100 %
		Repeat Option
		No Repeat ▼

### Offset X:

Negative numbers move to the left and positive value move to the right.

### Offset Y:

Negative numbers move downward, and positive value move upwards.

### Rotation:

Marks can be rotated by 90, 180 or 270 degrees (CountClockWise 90 degrees).

### Scale:

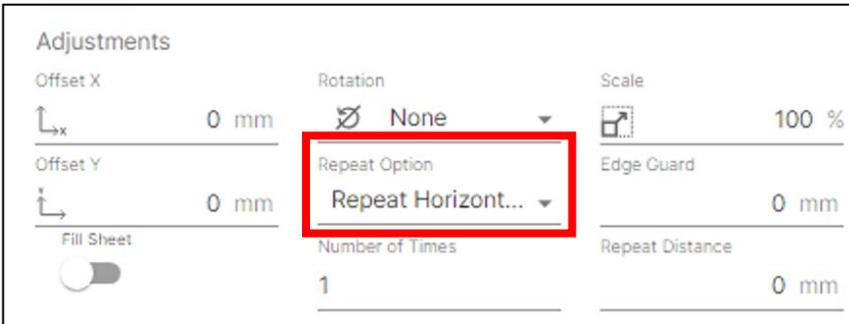
To increase/decrease the image size of the mark.

### Repeat Option

The Repeat options allow you to repeat a Mark down a Lane(s) vertically or horizontally, and also allow you to 'fill' a lane with marks controllable by the Edge Guard.

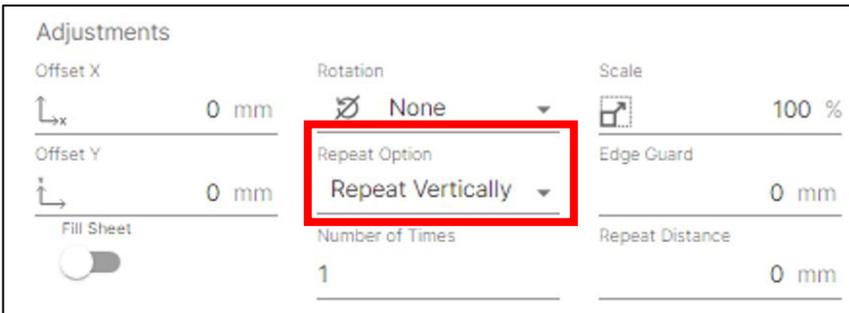
### Repeat Horizontal

Allows you to repeat marks vertically.



### Repeat Vertical

Allows you to repeat marks horizontally.



### Number of Times

Allows you to Repeat a Mark a specified number of times

### Repeat Distance

Allows you to define the distance between each mark. This is from the center of the mark to the center of the next mark.

### Edge Guard

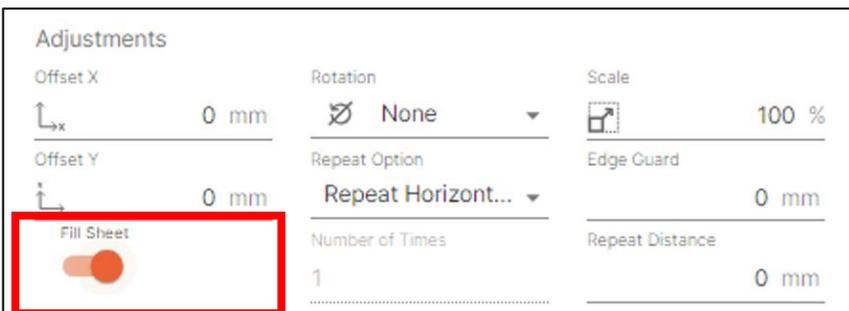
Allows you to define a protected distance at either end of the Lane where a mark will not be placed.

As you can set the position of the first mark with co-ordinates, in reality this sets the protected distance at the opposite end of the lane.

### Fill Sheet

Allows you to dynamically fill the lane between the first mark and the Edge Guard using the defined distance.

This will obviously work for multiple lane lengths so is particularly useful for Dynamic Media.



# New Camera Marks option- 3 Corner Marks

The Camera Marks for AutoNesting have a new option for the Corner Marks.

It is now possible to define only 3 corner marks, which give the triangulation necessary for the cutting table, but are quicker for the machine to make ready on as there is one less mark.

The screenshot shows the 'Cutting Table Camera Mark' configuration window. It includes fields for 'Type' (set to Circle), 'Radius' (3 mm), and 'White Border' (0.762 mm). Below these are 'Margins' for Top, Bottom, Left, and Right, all set to 5 mm. At the bottom, there are three toggle switches: 'Corner Marks' (checked), '3 Corner Marks' (checked and highlighted with a red box), and 'Double Corner' (unchecked). There is also an 'Indent for Barcode' field set to 0 mm.

# CSV Batcher Module (Chargeable option)

The CSV Batcher is a new type of Batching module that works with CSV (Comma Separated Values) input files.

An Ultimate Imposstrip job(s) can be started by dropping a CSV file into a hot folder, and depending on the contents of the CSV the related jobs can be batched and filtered, and imposition jobs initiated.

The CSV Batcher also has different options for identifying the PDF files related to the CSV and the information therein.

The screenshot shows the 'EXPORT TO IMPOPACK® ARCHIVE...' configuration window. It has fields for 'Name' (New CSV Batching Profile) and 'Description'. There is a section for 'General' with a dropdown for 'Batching Type' set to 'CSV Batching' and a toggle for 'Enable Batching Profile'. Below that is a 'Settings' section with an 'Import' dropdown set to 'Auto-Detect'. A file selection prompt 'SELECT A CSV FILE TO PREVIEW' is visible. At the bottom, there is a 'Mapping' section with columns for 'CSV Column', 'Mapped Field', and 'Type'.

## General

### Batching Type

In the Batching Type you should select the '**CSV Batching**' option.

## Enable Batching Profile

Enable Batching Profile should be **ON**.

# Import

## Header

This option is related to the format of the input CSV. If your CSV has a defined set of headings for each column then this option should be on, and the module will use those heading names in the interface to identify each column.

If your CSV does not contain any headings then this option should be off, and the columns will be identified by number, counting from the first left hand column. See example screenshots below.

## Delimiter

If you select 'Auto-Detect' then the module will automatically try to detect the type of delimiter used in the incoming file. If you know the delimiter then you can choose to directly select it, options are Comma, Semi-Colon and Pipe.

## Select a CSV File to Preview

In order to configure the CSV Batching module, it is necessary to have a sample CSV of the type you wish the CSV Batcher to work with. You can open the sample CSV file by clicking the orange option 'SELECT A CSV FILE TO PREVIEW' and selecting your sample CSV file.

## Header

Please note it is important that at this point that the 'Header' setting is correct. If it is not then your preview will not be correct, if this happens you should adjust the 'Header' setting and then re-import your CSV sample again.

You can see examples of both types of Header settings in the screenshots below.



Header:  Delimiter: Auto-Detect

SELECT A CSV FILE TO PREVIEW...

ProductCode	Title	TotalPrintQty	PrintMachine	StockType	FilePath	FileName	DueDate
SP1760135553	Space Galaxy Adventure	6	IGEN	Silk	\\PRODUCTION\Live\PrintFiles	Space_Galaxy_Adventure	28/09/2024
SP1760135560	Into The Stars	5	IGEN	Silk	\\PRODUCTION\Live\PrintFiles	Into_The_Stars	28/09/2024

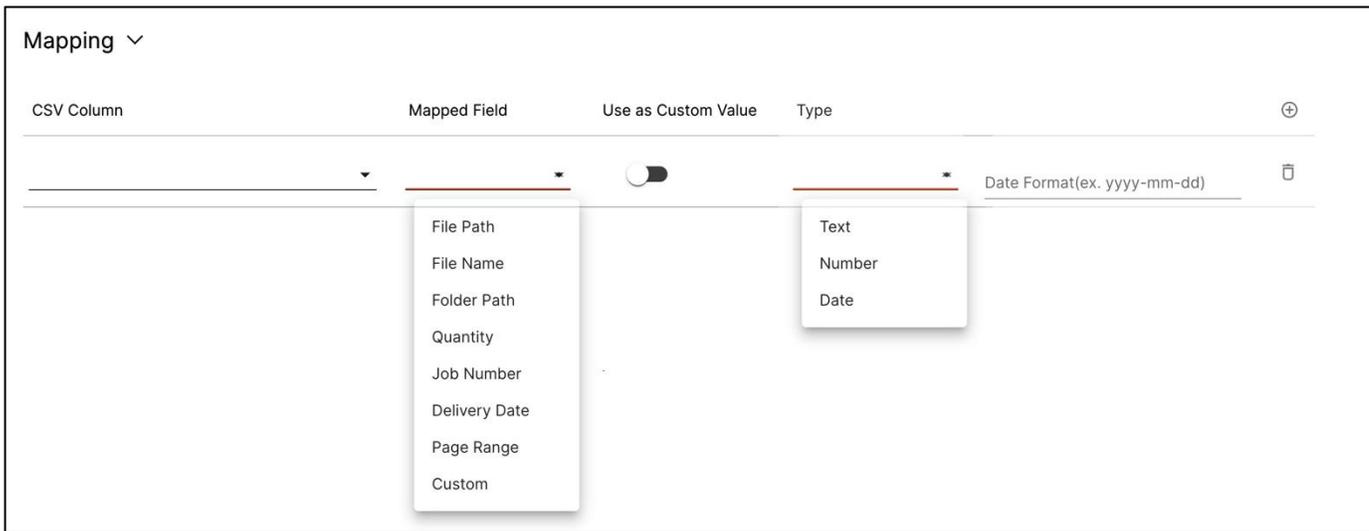


Header:  Delimiter: Auto-Detect

SELECT A CSV FILE TO PREVIEW...

1	2	3	4	5	6	7	8
SP1760135553	Space Galaxy Adventure	6	IGEN	Silk	\\PRODUCTION\Live\PrintFiles	Space_Galaxy_Adventure	28/09/2024
SP1760135560	Into The Stars	5	IGEN	Silk	\\PRODUCTION\Live\PrintFiles	Into_The_Stars	28/09/2024

## Mapping



Mapping requires you to define the specific column data from the CSV you wish to use in the Batcher and/or in Ultimate Impostrip Marks and Barcodes. There are some default settings that can be defined, Custom Values and also the type of data used.

### CSV Column

The CSV column will display the Header titles from each column in the CSV and allow you to map them to a pre-defined field or a custom value that can be used by Ultimate Impostrip (for marks and barcodes for example). In cases where the CSV does not have a Header the CSV Column will display the number of the column.

### Mapped Field

There are several pre-defined Fields available.

#### File Path

File Path would be used in situations where the complete file path to the PDF is included in the CSV including the file name. Http paths are not supported.

Example File Path: /Users/abc/Desktop/Batching/Numbers/Numbers/Numbers\_03.pdf

#### Folder Path/ File Name

Folder Path and File Name are two separate Mapped Fields and are to be used when the CSV has two separate fields, one containing a path to a folder, and a separate field that contains the PDF file name.

Example Folder Path: /Users/abc/Desktop/Batching/Numbers/Numbers

Example File Name: Numbers\_03.pdf

#### File Name only

If the CSV only contains the name of the PDF file(s) and does not contain a location, then the defined 'Repository Folder' is searched to see if any files of that name are present.

The 'Repository Folder' location is defined in the Ultimate Impostrip Preferences > XML Configurator > Repository Folder.

Example File Name: Numbers\_03.pdf

### Rules regarding the location of PDF files to be processed from a CSV input.

Single CSV file input

- a. File path mapped
- b. No file path but Folder path and file name mapped
- c. No file path, no folder path but File name mapped – search in hot folder repository first (if that does not work) then search the files in XML repository
- d. No file path, no folder, no file name – assume only one PDF is used for all entries with the same name as the csv file name (file search scenario the same as the above => hot folder repository then XML repository)

## Folder input (One CSV file + PDFs)

- File path mapped (use CSV data)
- No file path but folder path and file name mapped (use CSV data)
- No file path, no folder path but file name mapped – only search in input folder
- No file path, no folder path, no file name – has exactly one pdf file in the input folder (take the PDF file) if more than one PDF file then error out
- No file path, no folder, no file name – search the folder name as PDF name in folder repository then XML repository

### Quantity

The pre-defined Quantity field is the number of times the input PDF is to be imposed, so the imposition will use this value in that way. If the value in the CSV is to represent the total amount of copies of the job that should be printed, and you would like to use that value somewhere in Ultimate Impostrip such as a mark, you should not use this Quantity field, but map to a Custom Value instead.

If a Quantity is not defined the default quantity will be One (1).

### Job Number

This field is not specifically used by Ultimate Impostrip, but it is pre-defined as it represents a field that would be commonly used by customers for batching, so we added it as a default for convenience.

### Delivery Date

This field is not specifically used by Ultimate Impostrip, but it is pre-defined as it represents a field that would be commonly used by customers for batching, so we added it as a default for convenience.

When using a date field you must define the Date Format. Eg 'yyyy-mm-dd'

### Custom Value

As you can see below when you select a Custom Value you can then define a Custom Name, if you wish to use this value within Ultimate Impostrip for a Mark or a Barcodes then you need to enable the **'Use as Custom Value'** option.

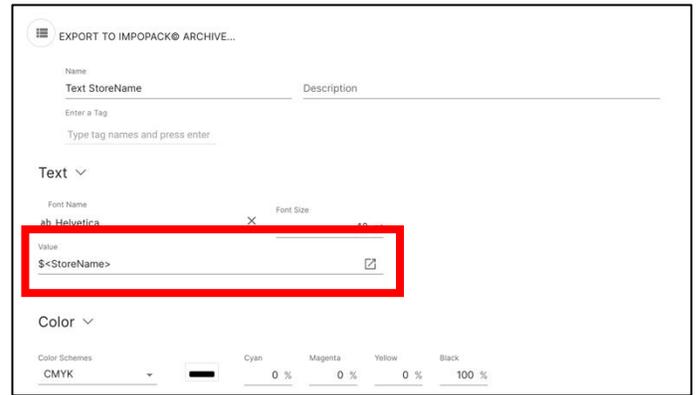
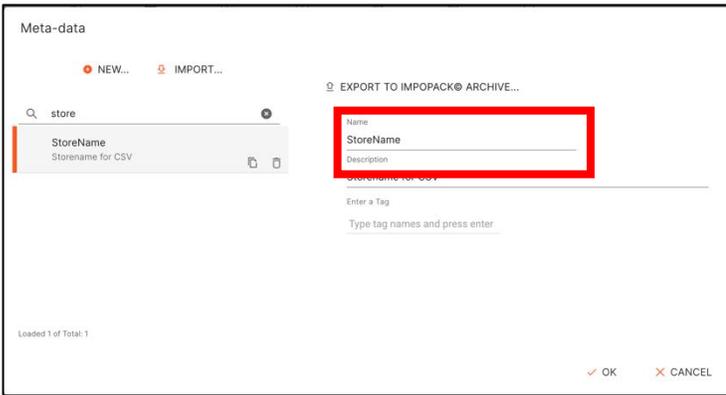
Mapping	CSV Column	Mapped Field	Use as Custom Value	Type	
	Quantity	Quantity	<input type="checkbox"/>	Number	
	Files	File Path	<input type="checkbox"/>	Text	
	PRIORITY	Custom	<input checked="" type="checkbox"/>	Number	
	Store Name	Custom	<input checked="" type="checkbox"/>	Text	
	Delivery Day	Custom	<input type="checkbox"/>	Text	

### Using CSV Custom Values within Marks or Barcodes in Impostrip

To use a Custom Value from a CSV within a Mark or Barcode in Ultimate Impostrip you must first configure the CSV Batcher correctly as described above. You should then define the Custom Value Name as a Metadata entry, and then define that Metadata entry as a value in your Mark.

The appropriate value in the CSV will then be used as the value for the Mark. If you are using a value for a Barcode, then you should take care that the values used are compatible with the barcode type defined.

**NOTE:** if you are using text with marks or barcodes that may have accents or uses non-Latin characters, then you should turn the 'Use DLI Print Engine' option OFF in the Hot Folder.



## Type

Type defines the values that would be used within the field. Options are Text, Number or Date.

These selections here are used in the Filtering/Batching options to define the Conditions and values that are available for each field.

## Regular Expressions

Regular expression wildcards (\*, ?) are available in the CSV Batcher, but are only available for the text type field & the condition 'equals to'.

# Filtering/Batching

## Group by

Group by enables you to separate your selected field in different batches. Any values in that field that are an exact match will be grouped together as a batch. Different values will create different separate batches.

## Additional Rule – TO COME

So, if our CSV file looks like this.

3 columns of data

Priority	Store	Files
1	Amsterdam	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Amsterdam1.pdf
2	Amsterdam	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Amsterdam2.pdf
3	Amsterdam	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Amsterdam3.pdf
1	London	/Users/abc/Desktop/Batching/City Names/CityGroupNames/London1.pdf
2	London	/Users/abc/Desktop/Batching/City Names/CityGroupNames/London2.pdf
3	London	/Users/abc/Desktop/Batching/City Names/CityGroupNames/London3.pdf
1	Montreal	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Montreal1.pdf
2	Montreal	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Montreal2.pdf
3	Montreal	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Montreal3.pdf
1	Munich	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Munich1.pdf
2	Munich	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Munich2.pdf
3	Munich	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Munich3.pdf
1	Paris	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Paris1.pdf
2	Paris	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Paris2.pdf
3	Paris	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Paris3.pdf

And our Group was configured like this.

SELECT A CSV FILE TO PREVIEW...

Priority	Store Name	Files
1	Amsterdam	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Amsterdam1.pdf
2	Amsterdam	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Amsterdam2.pdf

Mapping ▾

CSV Column	Mapped Field	Use as Custom Value	Type	⊕
Store Name	Custom Location	<input type="checkbox"/>	Text	🗑️
Files	File Path	<input type="checkbox"/>	Text	🗑️
Priority	Custom Priority	<input type="checkbox"/>	Number	🗑️

Filtering/Batching ▾

Group By  
Store Name

Additional Rule

Filter By

All Conditions (All conditions must be met) ⊕

Any Conditions (At least one condition must be met) ⊕

Then we would have 5 Batches

Batch 1	Batch 2	Batch 3	Batch 4	Batch 5
Montreal	Munich	London	Amsterdam	Paris
Montreal	Munich	London	Amsterdam	Paris
Montreal	Munich	London	Amsterdam	Paris

### Filter by

Filter by enables us to define which rows we want to be included in a batch, all of them or a selection.

#### All Conditions (All Conditions must be met)

If we use the 'All Conditions' option, it means that ALL the defined conditions must be met in a single row for that row to be included in the batch

#### Field

The Field defines the Column we want to filter by

#### Condition

The condition defines the operator we want to use for the filter, the available options relate to the 'Type' we defined in the Mapping previously.

Text = 'Equals to', or 'Contains'

Number = 'Equals to', 'Smaller or Equal than' or 'Larger or Equal than'

Date = 'Equals to', 'Before' or 'After'

#### Value

Value defines the text, number or date you wish to use to define the batch based on the defined Condition.

So, taking our previous example and adding the following 'All Conditions' configuration

Filtering/Batching ▾

Group By

Store Name ×

Filter By

All Conditions (All conditions must be met) ⊕

Field	Condition	Value	
Store Name	Equals To	Munich	🗑️

Any Conditions (At least one condition must be met) ⊕

Field	Condition	Value	
Priority	Bigger or Equal Than	2	🗑️

Then we have one Batch, as our condition is only met by two rows in the CSV.

**Batch 2**

Munich

Munich

Priority	Store	Files
1	Amsterdam	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Amsterdam1.pdf
2	Amsterdam	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Amsterdam2.pdf
3	Amsterdam	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Amsterdam3.pdf
1	London	/Users/abc/Desktop/Batching/City Names/CityGroupNames/London1.pdf
2	London	/Users/abc/Desktop/Batching/City Names/CityGroupNames/London2.pdf
3	London	/Users/abc/Desktop/Batching/City Names/CityGroupNames/London3.pdf
1	Montreal	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Montreal1.pdf
2	Montreal	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Montreal2.pdf
3	Montreal	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Montreal3.pdf
1	Munich	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Munich1.pdf
2	Munich	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Munich2.pdf
3	Munich	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Munich3.pdf
1	Paris	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Paris1.pdf
2	Paris	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Paris2.pdf
3	Paris	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Paris3.pdf

**Any Conditions (at least one Condition must be met)**

If we use the 'Any Conditions' option, it means that ANY of the defined conditions must be met in a single row for that row to be included in the batch

So, if we use the same data that we used for the previous 'All Condition' but use it in Any.

Filtering/Batching ▾

Group By

Store Name ×

Filter By

All Conditions (All conditions must be met) ⊕

Any Conditions (At least one condition must be met) ⊕

Field	Condition	Value	
Store Name	Equals To	Munich	🗑️
Priority	Bigger or Equal Than	2	🗑️

Then we have one Batch, as our conditions are met by multiple rows, plus in the case of 'Munich' also in multiple columns

Batch 1	Batch 2	Batch 3	Batch 4	Batch 5
Montreal	Munich	London	Amsterdam	Paris
Montreal	Munich	London	Amsterdam	Paris
	Munich			
	Munich			

## Munich

Priority	Store	Files
1	Amsterdam	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Amsterdam1.pdf
2	Amsterdam	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Amsterdam2.pdf
3	Amsterdam	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Amsterdam3.pdf
1	London	/Users/abc/Desktop/Batching/City Names/CityGroupNames/London1.pdf
2	London	/Users/abc/Desktop/Batching/City Names/CityGroupNames/London2.pdf
3	London	/Users/abc/Desktop/Batching/City Names/CityGroupNames/London3.pdf
1	Montreal	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Montreal1.pdf
2	Montreal	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Montreal2.pdf
3	Montreal	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Montreal3.pdf
1	Munich	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Munich1.pdf
2	Munich	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Munich2.pdf
3	Munich	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Munich3.pdf
1	Paris	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Paris1.pdf
2	Paris	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Paris2.pdf
3	Paris	/Users/abc/Desktop/Batching/City Names/CityGroupNames/Paris3.pdf

To finish this section, if we now turn off the 'Group by' setting we set previously in this section.

Filtering/Batching ▾

Group By ▾

Filter By

All Conditions (All conditions must be met) ⊕

Any Conditions (At least one condition must be met) ⊕

Field	Condition	Value	
Store Name	Equals To	Munich	🗑️
Priority	Bigger or Equal Than	2	🗑️

With the 'Group by' turned off, we now have only one batch, and that contains.

### Batch 1

Montreal  
Montreal  
Munich  
Munich  
Munich  
Munich  
Munich  
Munich  
London  
London  
Amsterdam  
Amsterdam  
Paris  
Paris

## Sorting

In Filtering/Batching we defined what rows (or files) we wanted in our batch.

In Sorting we can define the order and/or the sections they appear in.

### Group by Section

This option enables you to define a Column, and each entry in the column

Group by enables you to separate your selected field in different sections or lanes depending on the Imposition type you are using.

Any values in that field that are an exact match will be grouped together in a section

Different values will create different sections or lanes.



Different values will create different sections or lanes.

This would be the resulting Laneflow output from the CSV file we have been using, each store in a section/lane.



### Sorting Conditions

The Sorting functionality allows you to define the file sequence, so in other words the order in which they are imposed.

You can have multiple sort fields, if needed.

Here we use one, and we take our previous configuration including 'group by section' and add a sort of condition on the Priorities field

**Filtering/Batching** ▾

Group By ▾

Filter By

All Conditions (All conditions must be met) ⊕

Any Conditions (At least one condition must be met) ⊕

**Sorting** ▾

Group By Section

Store Name ×

Sorting Conditions ⊕

Field	Condition	
Priority ▾	Descending ▾	🗑️

Our output looks like this, firstly the section/lanes are defined, and then those jobs are sorted in their respective sections/lanes in descending order.

3 Amsterdam	3 London	3 Montreal	3 Munich	3 Paris
2 Amsterdam	2 London	2 Montreal	2 Munich	2 Paris
1 Amsterdam	1 London	1 Montreal	1 Munich	1 Paris

As an example of two Sorting Conditions, I am going to use the following configuration, with 'Group by Section' turned off, so all the files will appear in the same section/lane.

Field	Condition	
Priority ▾	Descending ▾	🗑️
Field	Condition	
Store Name ▾	Ascending ▾	🗑️

You can see the result below. You can see that the initial sort is the 'priority' 3, 2, 1, and then within that sort of the secondary sort lists the 'Stores' in ascending order. You can use as many sorts as needed.



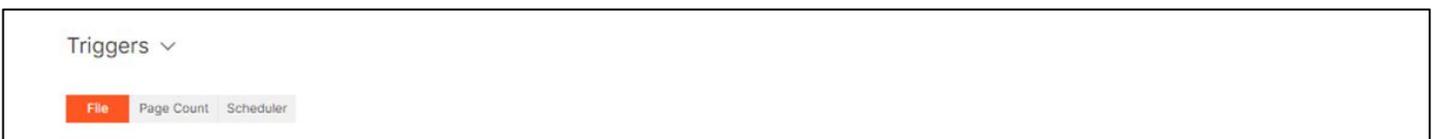
## Triggers

Once you have your Batching configuration defined, you then have to configure when and how you want the batch to be released for imposition.

### File

The file option will release a batch when each CSV file batch is completed.

So, when you add a CSV to a Hot Folder, once the data within it is Batched, that Batch will be released.



## Page Count

The Page Count option is based on the number of pages in a batch, this count includes any defined quantities.

Once the page count target has been reached, a batch will be released. The actual number of pages may be slightly higher than the define number depending on the file quantities defined.

Triggers ▾

File Page Count Scheduler Page Count Number  
0

## Scheduler

The scheduler allows to define the release of Batches by time. You can define specific days, a start/end time, and an interval so batches are gathered and released every hour for instance.

Triggers ▾

File Page Count Scheduler Scheduled Days  
Monday Tuesday Wednesday Thursday Friday Saturday Sunday

Start Time 0 :00

Stop Time 0 :00

Interval 0

## 2024.1 Tickets and Fixes

TT6143	Resolved an issue with round-cornered bleed in AutoNesting
TT6169	Resolved an issue with import of Duplo templates when a Duplo mark is not present
TT5647	Optimized Color Indexing to recognize color separations in Shadings
TT6045	Resolved an issue with overlapping colors with a rotated \$COLOR Mark
TT5254	Resolved an issue with the Barcode text position when the Barcode height is set to zero.
TT4505	Resolved an issue with the Color Bar outputting CMY when CMY is present in the document
TT5682	Resolved an issue with AutoFlow hanging on Printing
TT6176	Resolved an issue with XML custom marks targeted to an Imposition Number
TT6171	Resolved an issue with the rotation of collating marks
TT6165	Resolved an issue with XML for Redirection with Signature Booklets
TT5775	Resolved an issue with Smart Stacker and disappearing pages
TT5774	Resolved an issue with UICL and blank padding
TT6127	Resolved an issue with Trim Outline and negative X/Y offset
TT5935	Resolved an AutoFlow issue with Allow Multi-Groups and white space
TT5892	Resolved an AutoFlow issue with Duplex Banners
TT3574	Resolved a Banner Page issue with a Blank Back up
TT3558	Resolved a Banner issue with Multiple Template
TT5694	Resolved an issue with Drag and Drop of PDF Marks

