

# Imp XML Bundle - Sample Flow

## App Description

Imp XML Bundle has two apps – **Imp XML Creator** & **Imp XML Merger**.

**Imp XML Creator** app can generate Imp compatible XML files containing job definition of a single job from an input PDF, JDF, XML, XMP, CSV and TXT files.

**Imp XML Merger** app combines multiple such XML files into a single XML file to create a ganged project in Imp software.

These two apps simplify creating XML files for unmanned imposition and ganging using [Imp-Flow](#) software.

## Compatibility

Switch 2020 fall and higher.

## Connections

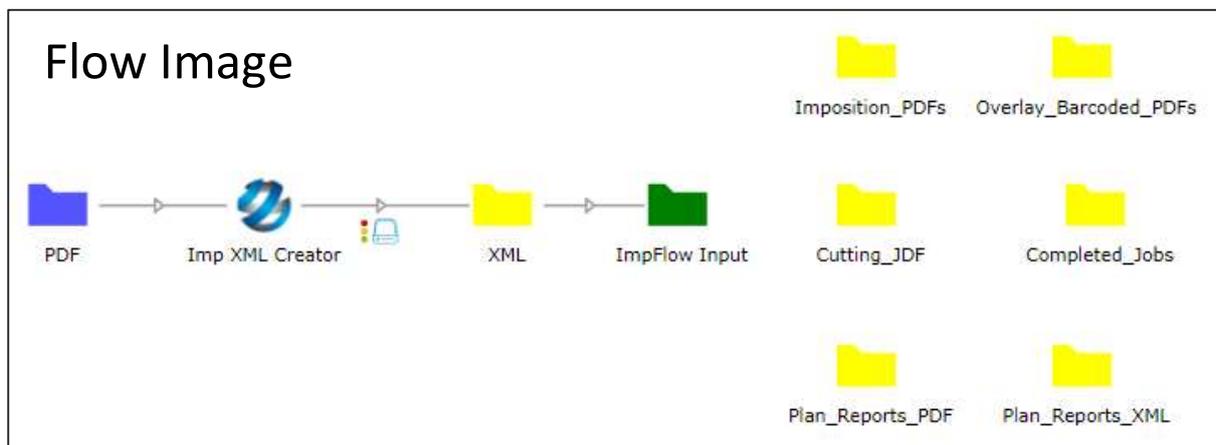
**Input:** PDF / JDF / XML / XMP / CSV / TXT

**Output:** Imp's Print Product XML

## Creating Imp Flow compatible XML from PDF for flat rectangular jobs

The Workflow in the below image will create Imp-Flow compatible XML from PDF files. Required job properties are extracted from PDF Metadata.

Output from **Imp XML Creator** app is input to InSoft's **Imp Flow** application. **Imp Flow** will compute optimized and accurate print ready layouts. Imposition PDFs (or JDFs), barcoded overlay PDFs, Cutting JDF and Plan reports in PDF and XML formats are generated by the **Imp Flow** application to separate folders. These **Imp Flow** output folders can be starting point for further processing in SWITCH.



## Flow Properties:

↑ PDF

Type	Folder
Description	
Path	D:/SWITCH/Switch Input/Input_PDF_Unbound
Leave originals in place	No
Minimum file size (KB)	None
Scan every (seconds)	2
Time-of-day window	No
Day-of-week window	No
Day-of-month window	No
Color	#5555ff
Flow stage	
Attach hierarchy info	No
Attach email addresses	
Attach email body text	
Attach job state	
Set job priority	None
Set job private data	None
Show in statistics	No

↑ XML

Type	Folder
Description	
Path	D:/SWITCH/Switch Output/Unbound_Jobs_XML
Color	Yellow
Flow stage	
Attach hierarchy info	No
Attach email addresses	
Attach email body text	
Attach job state	
Set job priority	None
Set job private data	None
Show in statistics	No

↑ ImpFlow Input

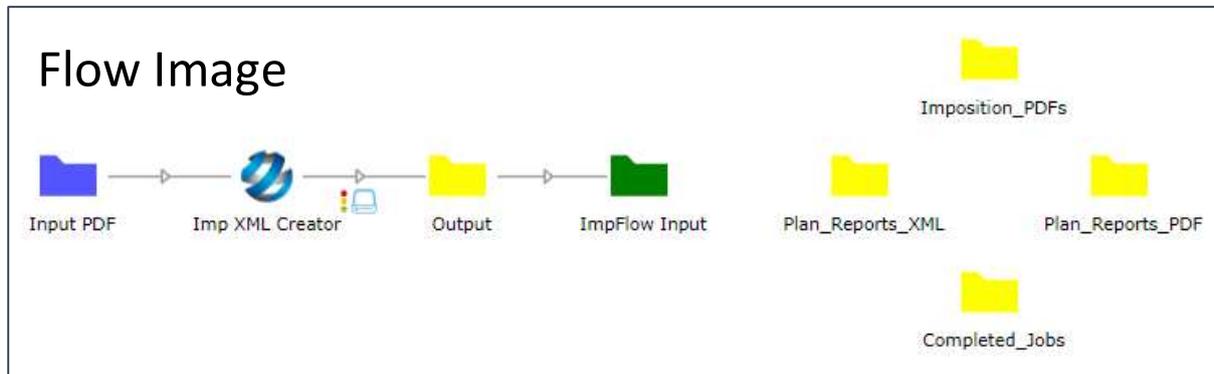
Type	Folder
Description	Imp Flow Input for rect. unbound step & repeat
Path	D:/SWITCH/Imp_Flow_Input/Unbound_XML
Safe move	Yes
Color	Green
Flow stage	
Strip unique name	Yes
Duplicates	Overwrite

↑ Imp XML Creator

Type	ScriptElement
Description	Makes a Print Product XML file for an input job
Script package	D:/SWITCH/ImpXMLCreator/ImpXMLCreator.sscript
ID	[Job.NameProper]
Copies	[Metadata.Text:Path="pdfx:Copies"]
Due date	2029-09-01
Product type	[Metadata.Text:Path="pdfx:Type"]
Customer id	[Metadata.Text:Path="pdfx:Customer"]
Component name	[Metadata.Text:Path="pdfx:Name"]
Material grade	[Metadata.Text:Path="pdfx:Paper"]
Material weight/thickness	[Metadata.Text:Path="pdfx:Grade"]
Paper mill	
Grain direction	EitherButConsistent
Page width	[Switch.Calculation:Expression="[Stats.TrimBoxWidth:Type="Effective",Precision="3"]*0.352778",Precision="2"]
Page height	[Switch.Calculation:Expression="[Stats.TrimBoxHeight:Type="Defined",Precision="3"]*0.352278",Precision="2"]
Do not gang	No
Print quality	1
Priority	0
Group	A
Allowed over runs	0
PDF source folder	
Infer inks from PDF	Process
Component type	Unbound
Bleed	3.175 3.175 3.175 3.175
Page sequence	0 1
Offcut	0 0 0 0
Import geometry from	None
Geometry source path	
Geometry import unit	mm
Cut	CUTLINES
Crease	CREASELINES
Perforation	PERFOLINES

## Create Imp Specific XML from PDF for Bound Jobs

This example workflow is similar to the previous one but is configured to create a bound job. Please notice the differences in the properties that are being set in the table below, compared to the table in previous example. Properties like *binding method* and *creep compensation* can be set when creating bound job XML.

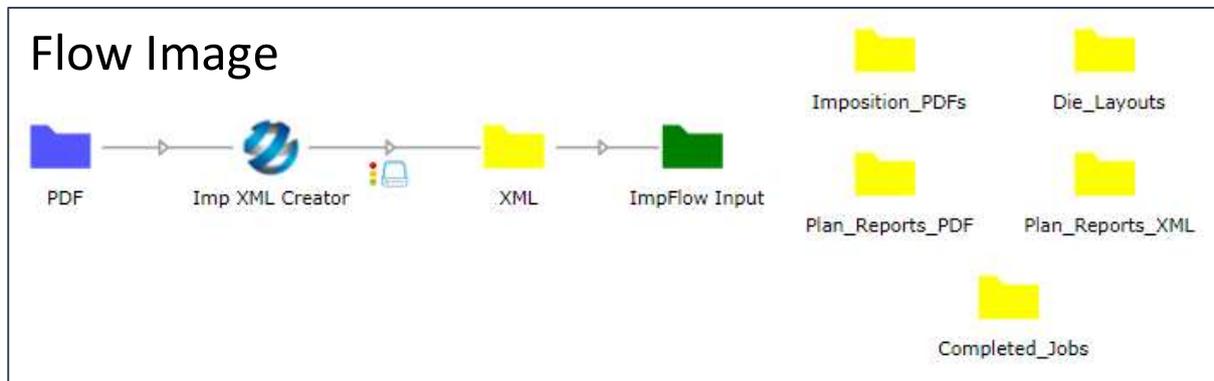


↑  **Imp XML Creator**

<b>Type</b>	ScriptElement
<b>Description</b>	Makes a Print Product XML file for an input job
<b>Script package</b>	D:/SWITCH/ImpXMLCreator/ImpXMLCreator.sscript
<b>ID</b>	[Metadata.Text:Path="pdfx:JobID"]
<b>Copies</b>	[Metadata.Text:Path="pdfx:Copies"]
<b>Due date</b>	2021-08-03
<b>Product type</b>	Magazine
<b>Customer id</b>	[Metadata.Text:Path="pdfx:Customer"]
<b>Component name</b>	[Metadata.Text:Path="pdfx:JobName"]
<b>Material grade</b>	[Metadata.Text:Path="pdfx:Paper"]
<b>Material weight/thickness</b>	[Metadata.Text:Path="pdfx:GSM"]
<b>Paper mill</b>	
<b>Grain direction</b>	EitherButConsistent
<b>Page width</b>	[Switch.Calculation:Expression="[Stats.TrimBoxWidth:Type="Effective",Precision="2"]*.35",Precision="2"]
<b>Page height</b>	[Switch.Calculation:Expression="[Stats.TrimBoxHeight:Type="Effective",Precision="2"]*0.35",Precision="2"]
<b>Do not gang</b>	No
<b>Print quality</b>	1
<b>Priority</b>	0
<b>Group</b>	
<b>Allowed over runs</b>	0
<b>PDF source folder</b>	
<b>Infer inks from PDF</b>	All
<b>Component type</b>	Bound
<b>Binding method</b>	[Metadata.Text:Path="pdfx:Binding"]
<b>Page count</b>	[Stats.NumberOfPages]
<b>Spine bleed</b>	0
<b>Jog bleed</b>	3.175
<b>Face bleed</b>	3.175
<b>Non jog bleed</b>	3.175
<b>Page labels</b>	1-*
<b>Is lap on high folio</b>	True
<b>Center signatures vertically</b>	True
<b>Back side printing</b>	Yes
<b>NUP</b>	1
<b>Creep</b>	Yes
<b>Creep style</b>	Scale
<b>Creep direction</b>	towards spine
<b>Come and go</b>	No
<b>Spine edge</b>	Left
<b>Jog edge</b>	Top

## Create Imp Specific XML from PDF for Irregular shaped Jobs

In the following example, a non-rectangular job is created from an input PDF. The geometry of the job is set by selecting the special color channel names in the input PDF for cutting, creasing and perforation.

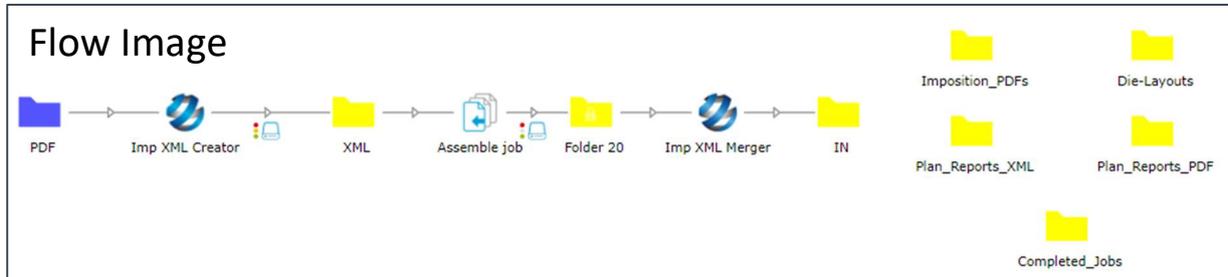


### ↑ Imp XML Creator

<b>Type</b>	ScriptElement
<b>Description</b>	Makes a Print Product XML file for an input job
<b>Script package</b>	D:/SWITCH/ImpXMLCreator/ImpXMLCreator.sscript
<b>ID</b>	[Job.NameProper]
<b>Copies</b>	[Metadata.Text:Path="pdfx:Copies"]
<b>Due date</b>	2029-09-01
<b>Product type</b>	[Metadata.Text:Path="pdfx:Type"]
<b>Customer id</b>	[Metadata.Text:Path="pdfx:Customer"]
<b>Component name</b>	[Metadata.Text:Path="pdfx:Name"]
<b>Material grade</b>	[Metadata.Text:Path="pdfx:Paper"]
<b>Material weight/thickness</b>	[Metadata.Text:Path="pdfx:Grade"]
<b>Paper mill</b>	
<b>Grain direction</b>	Vertical
<b>Page width</b>	[Switch.Calculation:Expression="[Stats.TrimBoxWidth:Type="Effective",Precision="3"]*0.352778",Precision="2"]
<b>Page height</b>	[Switch.Calculation:Expression="[Stats.TrimBoxHeight:Type="Defined",Precision="3"]*0.352278",Precision="2"]
<b>Do not gang</b>	No
<b>Print quality</b>	1
<b>Priority</b>	0
<b>Group</b>	A
<b>Allowed over runs</b>	0
<b>PDF source folder</b>	
<b>Infer inks from PDF</b>	Process
<b>Component type</b>	Unbound
<b>Bleed</b>	3.175 3.175 3.175 3.175
<b>Page sequence</b>	0
<b>Offcut</b>	0 0 0 0
<b>Import geometry from</b>	PDF
<b>Geometry source path</b>	D:\SWITCH\Switch_Input\Input_PDF_Die_Cut_Offset_Digital
<b>Geometry import unit</b>	mm
<b>Cut</b>	CUTLINES
<b>Crease</b>	CREASELINES
<b>Perforation</b>	PERFOLINES

## Combining multiple XML into one XML for ganging

For ganging, you can merge all individual XMLs into single XML using Imp XML Merger app. This is done by assembling multiple jobs into a single job and passing it over to the **Imp XML Merger** app.



For more information or clarifications and personalized demo please write to us at [sudha@insoftautomation.com](mailto:sudha@insoftautomation.com)