

VERSION 1.0
FEBRUARY 10, 2020



Great Little Box Company

Great people to deal with · Great packaging solutions

DISCOVERY WORKSHOP REPORT

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RICHMOND, BC

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1. DOCUMENT CONTRIBUTORS AND HISTORY

DOCUMENT CONTRIBUTORS

Name	Function/Role	Company
Mark Oglesby	Solution Architect	Esko Graphics

DOCUMENT HISTORY

All revisions to this document are listed in chronological order.

Version	Date	Author	Description of changes
1.0	02/10/2020	Mark Oglesby	Origination

2. EXECUTIVE SUMMARY

Over January 21st through January 23rd, 2020 a workshop was held at Great Little Box in Richmond, BC. The purpose of this workshop was to define Great Little Box's current processes used in their prepress department and examine how the Esko Software Platform fits into that vision. In doing so, time was spent on developing a better understand of current use case for the Esko Solution Architect to create a foundation on which to build. A discussion of the rough vision of Great Little Box Corporation followed that and the remaining time was spent exploring specific aspects of that vision. The major focus of this document is to present the currently known details of the requirements as they relate to what will turn into multiple projects spread likely over multiple phases. At the end of the document, a list of next steps will be presented.

Print Processes Reviewed

- Preflight
- Digital Label
- Folding Carton
- Flexo Label
- Corrugated Packaging

Each print process is relatively well defined based on flow charts provided (see index). Upon reviewing each process with the individual operators-these processes not only are documented but closely followed (some better than others).

3. WORKSHOP SCOPE

The following areas were investigated during the workshop:

- How is the Esko Software Platform being used today
- The vision of the future of the Esko Software Platform within Great Little Box Corporation
- How can Esko help improve the processes of Great Little Box Corporation
- What specific business needs require attention and are ripe for improvement

4. FINDINGS (CURRENT)

The first part of the workshop was spent getting the Solution Architect somewhat up to speed on what is being done today. The following list is observations from that discussion mixed with comments from Great Little Box Corporation.

- No current Management Information System (MIS) is in use that is used for all print processes. GLBC currently is in the processes of rolling out EFI Radius in hopes of changing this. Until the time this is fully functioning, data is coming into the prepress department in various methods. These methods include Smart Sheets for digital and flexo label, email for folding carton, and an internal online portal for Corrugated Packaging jobs.
- In all cases, the job data must be reentered manually by the prepress operator into Automation Engine after an Automation Engine job is created in the proper location.
- Each print process has its own standard operating procedures-with little integration or commonality between them.
- A general lack of consistency in delivery of information due to the sheer number of different processes and the significant flexibility shown to customers to satisfy how they work. Although admirable and to some level necessary, at some point this becomes a major roadblock to significant automation which requires consistency to function.
- Each operator is responsible for creating/modifying their own workflows both inside and outside of Automation Engine.
- File/folder system used by Structural Design Is not conducive to the way Automation Engine would need it to integrate seamlessly with prepress.
- Some print processes are overly complicated. Due to this-the print process workflow is not able to scale beyond the current operator.
- Change in large amounts at one time is not a desirable situation for the Prepress Department. Would prefer changes to take place in smaller increments for easier transition through phases.
- There is significant variability in how files are delivered and there is a misunderstanding on the part Great Little Box Corporation management on this point.
 - Lack of consistency in content quality (causes impact to automation capabilities)
 - Delivery methods also vary widely
 - Internal and external communications inconsistencies
 - Prepress is constantly playing defense
 - Lack of information (incomplete)
 - Inaccurate expectations (perfection expected with imperfect knowledge)
 - Improper due dates
 - A general lack of consistency in delivery of information due to the sheer number of different processes and the significant flexibility shown to customers to satisfy how they work. Although admirable and to some level necessary, at some point this becomes a major roadblock to significant automation which requires consistency to function.

ESKO TECHNOLOGY TOOLS USED:

Tools	Findings
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Automation Engine	<ul style="list-style-type: none"> • Digital label and flexo: GLBC currently employees a collection of workflows to automate this process. • Folding carton: Basic workflow for layout has been developed-some operators would rather complete this function manually using Plato. • Corrugated: Multiple workflows in use
ArtiosCad Standalone	<ul style="list-style-type: none"> • Used to create structural designs and manufacturing layouts for folding carton.
Plato	<ul style="list-style-type: none"> • Used to manually layout folding carton jobs. Software is also used to create sheet marks and reports
PackEdge	<ul style="list-style-type: none"> • Currently used for Equinox conversions only.
Esko DFE	<ul style="list-style-type: none"> • Version 5.2.2 is installed. Used to process files from Automation Engine into the HP environment.
Imagine Engine	<ul style="list-style-type: none"> • Used for creating 1 bit TIFs files for folding carton work

OTHER TECHNOLOGY TOOLS USED:

Tools	Findings
Anzio	<ul style="list-style-type: none"> • Custom MIS system developed by GLBC • In use with some print processes • In house developer has developed portals that are capable of outputting XML and email orders
Smart Sheets	<ul style="list-style-type: none"> • Third party SaaS system used to schedule print processes and gather data
EFI Radius	<ul style="list-style-type: none"> • New MIS system to replace Anzio • Rollout is scheduled for March

5. CURRENT PROCESSES

Preflight

The preflight process is a new process implemented at GLBC and is currently only used for the flexo and digital label print processes. This process was implemented to help determine if the files received from customers can be produced without issue. If problems are found-the hope is to remedy the situation before the job is scheduled into prepress.

The following process is followed by the Preflight Operator (PFO):

1. Job request comes into sales.
2. Sales request quote from estimator.
3. Estimator gives quote to customer.
4. If ordered-submitted the customers sends file/files.
 - a. Email-CSC downloads order-places it in Label Drive. (incoming files)
 - b. Dropbox/We Transfer-CSC downloads the files and places it in Label Drive. (incoming files)
5. PFO processes the art-checking the following:
 - a. Number of files – check to expected files
 - b. Size
 - c. Die
 - d. Wind directions
 - e. Finishes
 - f. Number of colors
 - g. Laminate
6. PFO enters the job into Smart Sheet

What's Working

- PFO is pushing unusable files back to CSC rather than at the prepress stage
Files issues found before the job is submitted to prepress.
- Sales is able to get information about the files before the job is submitted into prepress.

Pain Points

- Dealing with multiple SKU
- System is not saleable with 1 person if multiple print processes are implemented at the preflight stage

Digital Label

The Digital Label Operator (DLO) is responsible for processing files that are for the HP digital press. There is currently one main operator and a backup that does some of the simpler work as time allows.

The following process is followed by the DLO:

1 up Proofing stage

1. DLO check Smart Sheet for upcoming art request
2. DLO creates an Automation Engine job based on template or previous job
3. DLO enters all required parameters into Automation Engine job.
4. DLO copies the customer files and adds them into the new job from the label drive.
 - a. If multiple SKU are used, the DLO sorts files and determines the art request number compared to the customers file name.
5. DLO executes the prepress prep work including: (but not limited to)
 - a. Any typesetting/corrections needed
 - b. Making or checking the die
 - c. Checking, making or editing bleed on the file as needed
 - d. Check blacks- colors appropriate objects as a rich black
 - e. Checks and creates bar codes
 - f. Set trim/media box
6. DLO runs the normalized workflow-based on job parameters.
7. DLO runs the proofing workflow-based on job parameters.
8. DLO sends the proof pdf to CSC.

Work Order stage

The Flow chart provided did not directly mention stepping/layout. The information above is from an example job demonstrated during the assessment. Beside a few gangs' jobs needed-the Automation Engine job is used to create the stepped layout. The current standard is 1 file per layout unless Estimating/Scheduling has created a handwritten file plan.

1. DLO uses an Automation Engine job to create the stepped file.
2. DLO checks all parameters against what is in job.
3. DLO send 1 up File# into LL-Digi Sub to HP v8 workflow.
4. Enter the following parameters
 - a. Strategy and substrate
 - b. Custom naming
5. DLO checks layout

What's Working

- The workflows created handle work faster than the old legacy workflows build around stepping at the DFE
- Workflow was developed to auto calculate the best possible fir to fill the HP frame size.

Pain Points

- Dealing with multiple SKU without the use of products is very difficult.
- The DLO has to enter all data from Anzio into Automation Engine manually, leading to possible errors and necessary checks during the layout.
- Repeat of art is not significantly tracked through any system. This could lead to the incorrect art being used in a production run.
- Ganging art into lanes is an issue as there is no current workflow to achieve this. These jobs must be either laid out in PowerLayout or done through the DFE stepping.
- The information from Anzio does not consider all finishing equipment possible-this leads to the wrong direction of the final needed rewind. When dealing with automation, this can cause the layout to be imaged in a wrong rotation-typically 180° off.

Folding Carton

There are currently three operators running the folding carton work. Two of the three have access to Plato for creating layouts, editing smart marks and adjusting the final layout. Automated workflows have been setup and are used by the one operator without direct use of Plato. The other operators use a combination of Plato and automated workflows to accomplish the creation of layouts.

Setup Proofing stage

1. Email comes from CSC or sales that includes various parameters such as customer, product ID, MFG number, artwork location, file number, print colors and stock
2. FCO downloads art/or to their desktop workstation where they files received.
3. FCO imports the correct the ARD file from the design file (structure)
4. FCO complete initial prepress work and saves a normalized PDF in the PFile folder.
5. FCO creates an Automation Engine job-manually filling out the parameters needed.
6. FCO runs the proofing workflow to auto generate a hard copy proof and a soft PDF proof.
7. FCO emails PDF proof to the job requestor.

Work Order Stage

1. FCO looks for the wo number based on the received PO through Anzio (manual step or on schedule)
2. FCO creates a Plato file using the PFile located in the Final PDF folder-in Plate Output folder. Information to drive this function is located in the PO sent to the operator via an email. Other information from this include sheet size, die number, etc. This file is saved to the Plate Output folder
3. A content proof is run using an Automation Engine workflow.
4. A soft PDF proof of the layout is created by the FCO.
5. If any embellishment blankets are needed, these are also created at this time. This is done with an applescript and cut on the Kongsberg table.
6. Once the job is scheduled, the job is processed, and plates made. This includes the automated smart marks added to the layout.

What's Working

- The implementation of the automated workflows has allowed jobs to be processed without the need of a dedicated editor such as Plato to layout the sheet and apply sheet marks.

Pain Points

- GLBC does not currently have a way of standardizing the process of receiving files from customers.
- GLBC does not currently have a way of standardizing the process of receiving files from customers.
- Sales and CSC are accustomed to bypassing the prepress system to expedite the processing of their own jobs, outside the system and without regards to other jobs that are being worked on.
- There is no current automated preflight of customer files is being done. Currently all files are preflighted in the native application (Adobe Illustrator) by the FCO.
- Scheduling of jobs to be worked on has become a challenge. The priority is set by sales rather than the production manager. This job switching is also causing inefficiencies-due to constantly changing direction of what needs to be worked on and in what order.
- The FCO is spending unproductive time entering data into multiple systems such as Smart Sheets and Automation Engine. This manual entry of data is also prone to human error.
- Sales and CSC use inconsistent methods of detailing the file locations of customer files as well as inconsistent information.
- FCO has encountered inconsistency with smart marks in Plato and Automation Engine.

Flexo Label

The Flexo Label Operator (FLO) is responsible for processing files that are intended for traditional flexo presses. Currently GLBC does not image these plates internally but uses an outside source (OEC) to image these plates and ship back to GLBC. There is one main FLO currently working on both traditional flexo work as well as digital flexo. The traditional flexo workflow is very similar to digital label work.

The following process is followed by the FLO:

1 up Proofing stage

1. FLO check Smart Sheet for upcoming art request
2. FLO creates an Automation Engine job based on template or previous job
3. FLO enters all required parameters into Automation Engine job.
4. FLO copies the customer files and adds them into the new.
5. FLO executes the prepress prep work including: (but not limited to)
 - a. Any typesetting/corrections needed
 - b. Making or checking the die
 - c. Checking, making or editing bleed on the file as needed
 - d. Executes manual trapping
 - e. Checks and creates bar codes
 - f. Set trim/media box
6. FLO runs the normalized workflow-based on job parameters.
7. FLO runs the proofing workflow-based on job parameters.
8. FLO sends the proof pdf to CSC via email.

Work Order stage

1. FLO uses an Automation Engine job to create the stepped file.
2. FLO checks all parameters against what is in job.
3. FLO runs a workflow that FTP final PDF to plate vendor.

What's Working

- Stepping is automated except at the entry of data from the MIS system.

Pain Points

- Renaming and organization of customers files is time consuming.
- Depending on the size of the 1up label-editing of the proof is required.
- Some jobs must be split manually

Corrugated

The Corrugated Operator (CO) is responsible for processing files that are intended for a corrugated print process. Currently GLBC does not image these plates internally but uses an outside source (OEC) to image these plates and then ship back to GLBC. GLC employees one main CO to processing files. I was not informed of any other operator that was also trained in the processing of these files.

The CO is currently doing a very complex preflight process. This information is passed back and forth to the customer before any prep work is started. This includes the creation of complex reports and consultation with the customer or CSC. If the customer is not willing to do these changes-the artworks is sent out to a third-party vendor to complete this work.

Informal Preflight before Artwork Request

1. Reviews artwork and developed fairly complex document to inform customer.
2. Sends report document back to customer for review.
3. Customer make the decision if GLBC will do the changes or if they will. If GLBC is to make the changes, then the CO determines if he will make the changes or if the changes will be outsourced to MoMedia to complete the edits.

1 up Proofing stage

1. The art request (AR) comes through portal as an email with basic information such as die number customer product id, etc... This information is approximately 80% complete.
2. The CO get the customer files and support as an additional email or link (such as dropbox)
3. CO completes an additional preflight of document
4. CO does initial prep on file such as setting the dieline
5. CO designs a spec sheet (shop cart)
6. Grabs all files and copy to desktop to organize. This includes an EPS file to use as a die.
7. CO creates a file number in Anzio
8. CO creates an Automation Engine job in the Box Jobs container by using a job template.
9. Reviews and enters in job parameters.
10. Opens file in Adobe Illustrator and starts prepping files.
 - Imports EPS die/ARD if 3D is needed
 - Creates or fixes bleed
11. Manually creates proof using information from the production file-is not using smart marks or reports for this. This report includes screenshots of the file in 3D.
12. Creates a 3D PDF workflow.
13. Proofs are manually edited based on parameters and 3D needs.
14. Send edited reports to CSC and Sales
15. Updates Smart Sheets.

Work Order stage

1. The PO comes in via email. The CO notes the PO number to be used as a parameter
2. The CO check the detail from email against the proof info
3. The CO copies the 1up (which is the proof also?)
4. Preps file to OCE
 - a. Reviews the detail in pilot-edits OCE docket number
 - b. Creates a duplicate of the file (called a neg file) and preps the file for output
 - i. Checks the colors in the file compared to the docket
 - ii. Deletes all other colors
 - iii. Edits the colors to black only if applicable
 - iv. Outlines font
 - v. Goes through a check list
5. Launch final art to OCE from AI
 - a. No real parameters still being used
6. Launch workflow from ai Box Report
 - a. Create reports sheets
7. Launch workflow in pilot called Box Plant Copy-this simply emails the report.

6. AUDIT SUGGESTIONS

MIS/Integration/Other

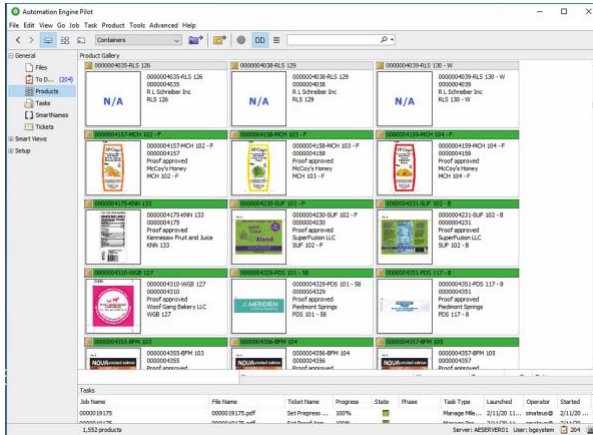
Suggestion 1

The integration with a MIS or ERP system to Automation Engine is the critical key to success. The main pain point in each print process is rekeying or entering incorrect data. This integration can be done in numerous ways depending on the onsite programming staff or the implementation of a standard or custom solution developed by an Esko Solution Architect.

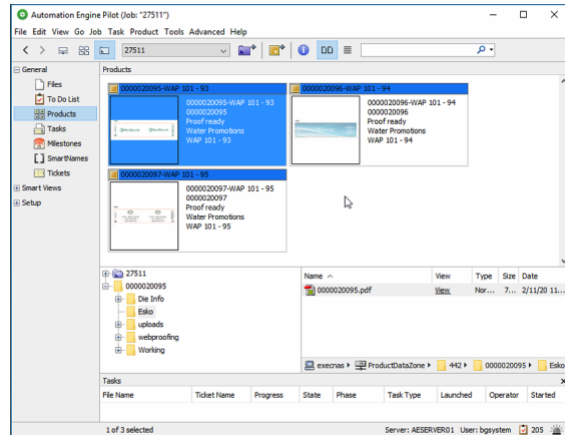
Current Situation	Consequences	Pay Off
Paper-based and siloed systems are causing duplication of effort.	Delays in production administration bottlenecks.	Reduce/remove duplication of data and effort.
Data entry and re-entry is introducing errors.	Jobs manufactured wrongly due to incorrect instructions.	Reduce errors caused by data re-entry.
	Unforeseen costs of re-manufacturing	Eimination of re-manufacturing costs.

The key is the incoming data. This could be as simple as an XML file coming into a Automation Engine hot folder or as complicated as either direct database queries or a JDF/JMF which can deliver some 2 way communication between the systems.

The current GLBC plan is to implement EFI Radius as the main MIS system. Esko currently offers both a narrow web and folding carton solution. Both of these solutions rely on the concept and use of products. Products represent individual artwork. This artwork is also referenced in a separate database. Artwork is linked to the Automation Engine job rather than a physical file in the job. This enables better tracking, better reuse of repeating art and the ability to have additional parameters based on the file rather than the job folder.



Products Database



Products in use in a job

Suggestion 2

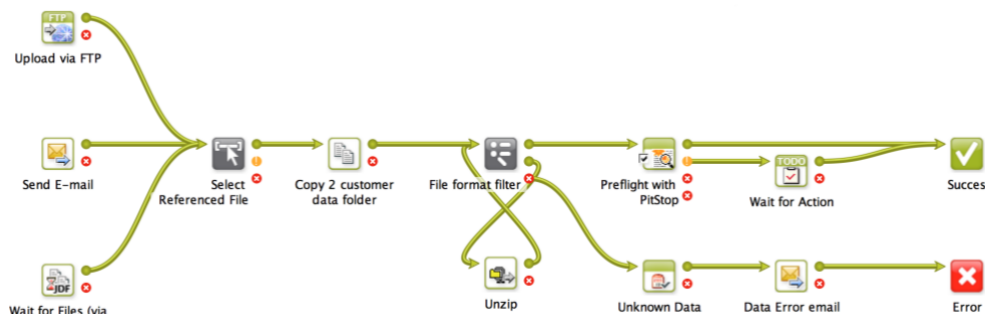
Update Automation Engine to version 18.1.1. This will allow for the use of the new **Trap** task.

Preflight

As the Preflight department is currently implemented, I can see a bottleneck forming as the number of files and jobs increase. This will also be the case once other print processes are added to the workload.

Suggestion 1

The preflight department should implement the use of the **Preflight with Pitstop** workflow/task to automate a percentage of the preflight work being done. This task utilizes the Enfocus Pitstop technology to run Pitstop profiles against incoming PDF files. These profiles can be created using numerous checks and are completely customizable based on print process needs. A report is generated with both a summary of issues found and more detailed information about the file. The report itself can have customized branding applied.





Suggestion 2

The PFO is required to sort and the customer files to be based on the artwork request number. The PFO is already doing this to a point to verify the files received match the files needed. If the PFO renames the files appropriately at this point-then operator downstream would not need to repeat this process.

Suggestion 3

The current online portal auto creates the Automation Engine job when preflight is requested and auto inputs the required fields. This workflow is dependent on the data the online portal can deliver as an XML file. Below is a flow chart based on the initial input/discussion with Wanda. It is dependent on the data the inhouse programmer (Luz) can deliver from the portal.

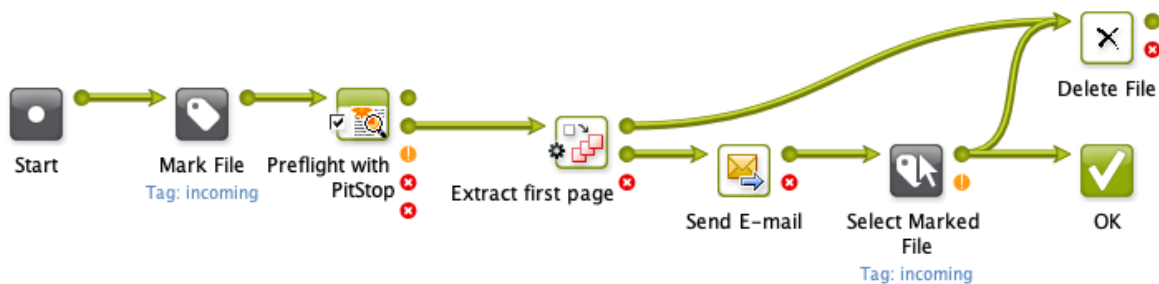
This solution would not only speed up the preflight process, but also be the start of an integration into all print processes. Depending on how much data is available at this point-many parameter would be set and the creation of an Automation Engine job already completed before the job arrives in prepress.

Initial Preflight workflow workflow

1. Artwork Request (AR) goes to access point from Portal software as XML
2. XML creates an AR Automation Engine job
 - a. Tags as an AR job
 - b. Fills in parameters from AR (common parameters to all files)
 - c. A PDF is sent, or Automation Engine creates a pdf file of the request and places in root of AR job
3. Automation Engine workflow alerts Preflight Operator (PFO) that an AR has arrived-asks where files are
 - a. PFO adds files and continues
 - b. Automation Engine workflow grabs a zip of the AR from a common location based on the AR#
4. Initial workflow continues
 - a. Unzips the files
 - b. Checks for multiple SKU
 - i. If multiple SKU than works alerts PFO
 - ii. If not, workflow adds file# to file-releases job
5. PFO sorts multiple SKU-adds file#
6. Automation Engine process files
 - a. Creates folder structure for each file#
 - b. Runs pitstop reports on file
 - c. Creates a DOTO for Wanda on files that has=d warning/errors

Suggestion 4

The creation of a self-service preflight portal for use by the CSC or salesperson. This could be set up using either a hot folder or an email access point. A CSC/Sales would either email the PDF to be automatically preflighted or drop the PDF into an accessible hot folder on a internal GLBC folder that is watched by Automation Engine.

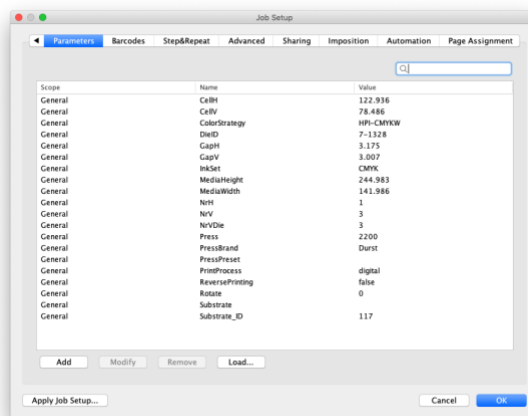


Digital Label/Traditional Flexo

Digital label and Traditional Flexo share many of the same issues. These two sections were combined since many solutions are common.

Suggestion 1

Implementation of auto job creation. See MIS/Integration suggestions. For the Digital Label and Flexo Label processes, the auto entry of data would eliminate many steps in the current process. This would also eliminate the operator from having to make various choices which have already been determined in the MIS system, such as number of around/across, gap size and layouts needed.



Job Parameters

Suggestion 2

Implementation of the products concept. This will speed up working with multiple SKU in a digital label job. Each product can have unique parameters so these can be processed both together with other products or separately, keeping unique parameters available for functions like proofing and proof legends.

Suggestion 3

Digital Label Only: Combine Normalized and proofing workflow. This will save an unnecessary step in the current workflows. This is a minimal change and should be adopted.

Suggestion 4

Digital Label Only: The legacy workflow could be reworked to use the print on digital press task which would eliminate step at the DFE. The parameters could also be automatically entered if the MIS system is delivering the needed parameters.

Suggestion 5

Digital Label Only: Color Preflight Standard workflow. This standard solution would allow the workflow to select the optimum production method (EPM, CMYK, CYMKOYG) while still meeting the expectations. This also allows for a guaranteed match between estimation and execution. This information is conveyed in a simple to read report.

The screenshot displays an ESKO Color Preflight Report for a file named '01_Hud Wine Front.pdf'. It includes a thumbnail of the label, a list of input inks (201, Varianch), and a table of process color checks with their values and EPM compatibility. To the right, a 'Spot Color Conversion' table provides detailed data for inks 348, 375, and 389 across various color models (CMY, CMYK, CMYKOGV) and colorimetric values (L*, a*, b*, etc.).

Type of EPM Check	Value	EPM Compatibility
Check for black gradients		✓
Check for images in black		✓
Check if the input file only contains a black ink		✓
Check if the TAC is more than 10%	280 %	✓
Check if the input file is missing the black ink		✓
Check for black objects smaller than	0.35 mm	✓
Check for black strokes thinner than	0.35 mm	✓
Check for black text smaller than	6 pt	✓
Check for rich black object or stroke		✓

Ink Name	Ink Set	L*	a*	b*	%C	%M	%Y	%K	Delta E 2000	Tolerance
348	CMY	0.09	0.973	0.258	0.989	-	-	-	-	-
	CMYK	0.12	0.966	0.220	0.961	0.000	-	-	-	-
	CMYKOGV	0.12	0.000	0.000	0.706	0.451	0.000	0.000	0.969	-
375	CMY	5.77	0.447	0.000	1.000	-	-	-	-	-
	CMYK	6.22	0.471	0.000	1.000	0.000	-	-	-	-
	CMYKOGV	3.32	0.000	0.000	1.000	0.000	0.000	0.000	0.561	-
389	CMY	3.68	0.163	0.000	1.000	-	-	-	-	-
	CMYK	3.63	0.149	0.000	1.000	0.000	-	-	-	-
	CMYKOGV	2.01	0.000	0.000	1.000	0.000	0.000	0.000	0.231	-

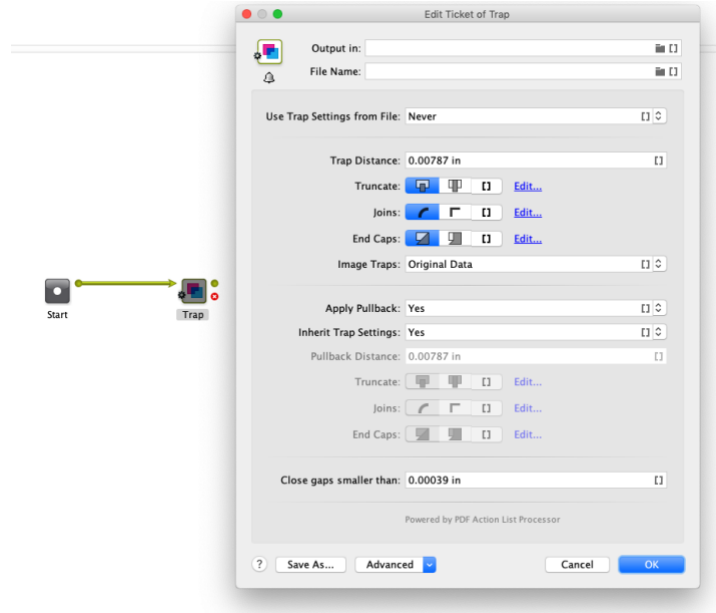
Suggestion 6

Traditional Flexo Only: The current label proof should be edited to address some issues with placement of legend box. The PackEdge software is capable of editing the needed reports/Smart Marks. Traditional Flexo also used a legacy report that is no longer functional due to the change of Automation Engine server. This could be adjusted as well.

Suggestion 7

Traditional Flexo Only: With the minor update to Automation Engine 18.1.1, a new trap engine was introduced in Automation Engine that uses the advanced trapping engine that is deployed in Artpro+. This modern trap engine brings a brand-new trapping technology that can cope with

highly complex designs. The innovative trapping algorithms optimize the final trapping results toward the aesthetical expectations of prepress operators.



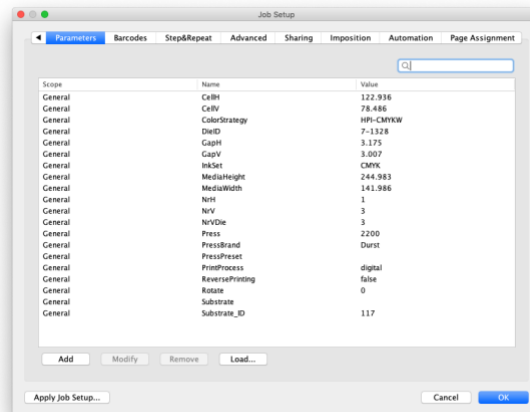
Suggestion 8

Traditional Flexo Only: Reduce the use of external Applescripts. Much of the functions programed into these are available as either Automation Engine tasks or Pitstop Actions. By moving these functions out of the workstation stage, consistency can be achieved, and the function built into the workflow. This will also eliminate the need to constantly update based on the version of Adobe Illustrator used.

Folding Carton-Structural Design

Suggestion 1

Implementation of auto job creation. See MIS/Integration suggestions. For the folding carton process, the auto entry of data would eliminate many steps in the current process. This would also eliminate the operator from having to make various choices which have already been determined in the MIS system, such as MFG needed, sheet size and curve strategy.



Suggestion 2

Have all FCO use workflow-based solutions for consistency-using Plato as an inline editor when changes are needed.

Suggestion 3

Implementation of true product-based workflows. See Suggestion 2 in the Digital/Flexo section.

Suggestion 4

Implementation of the new **Trap** task in all workflows that trap files. See Suggestion 7 in the Digital/Flexo section.

Suggestion 5

Depending on the data available in the online portal, develop a XML based **CAD Sheet Layout** based layout workflow. The ability to step via an XML file would allow for better automatic placement of stations on an MFG file. The MFG could automatically be pulled from a known

location and used in the workflow. Parameters such as sheet size, stock and destination press could also drive the correct selection of curve strategies and output settings.

Suggestion 6

Use the ARD files: Instead of an EPS/PDF file for die information, prepress should always use and place the final ARD file developed by the Structural Design department. The ARD could be placed automatically in the graphics file using the **Load Structure** task. Not only would this assure that no edits have been made to the dieline but would also confirm the correct MFG will be used since the MFG file was created with the corresponding ARD file.

Suggestion 7

Standardize on customer codes between Structural Design and Prepress departments: To implement auto placement of ARD files, the Structural Design group would have to standardize on folder structure and file names to better fit with what is coming in from the MIS system. Currently the Structure team is creating a folder structure not based on a Customer Code but human readable folder names which is not consistent with what is in the current (or future) MIS system.

Suggestion 8

If ARD files are the default file format for structure information, the ability to auto create 3D proofs is available using the **Export 3D** task. This is currently done only on some jobs and requires the use of the Studio plugins which are not automated.

Corrugated

Suggestion 1

Implementation of auto job creation. See MIS/Integration suggestions.

Suggestion 2

The current Corrugated SOP requires numerous back and forth with the customer to guarantee correct art. This process is not scalable due to the amount of time it takes from the CO doing actual artwork preparation. This time should be captured and allow management to make the decision if the time spent should be a chargeable item. This decision should not be up to the operator. While this time is well spent based on the amount of errors that are caught before plates are made or the job is on press-the downside is the speed in which corrugated jobs are processed.

Suggestion 3

Implementation of ARD files into graphics. See Suggestion 6 in the Folding Carton section.

Suggestion 4

Implementation of automated 3D reports. See Suggestion 8 in the Folding Carton section.

Suggestion 5

Implementation of standard customer codes Structural Design and Prepress departments. See Suggestion 7 in the Folding Carton section.

Suggestion 6

Implementation of of the new **Trap** task in all workflows that trap files. See Suggestion 7 in the Digial/Flexo section.

Suggestion 7

Combine multiple workflows into 1-reducing the number of touches. This includes the workflows used to create the various reports during the Work Order stage.

7. NEXT STEPS

The next step consists of **a review of this report together with the Customer and the Esko Sales Account Manager (SAM)** for Q&A. If the Customer wishes to proceed with the recommended solution(s), the Esko SAM will prepare a Commercial Proposal.

8. INDEX

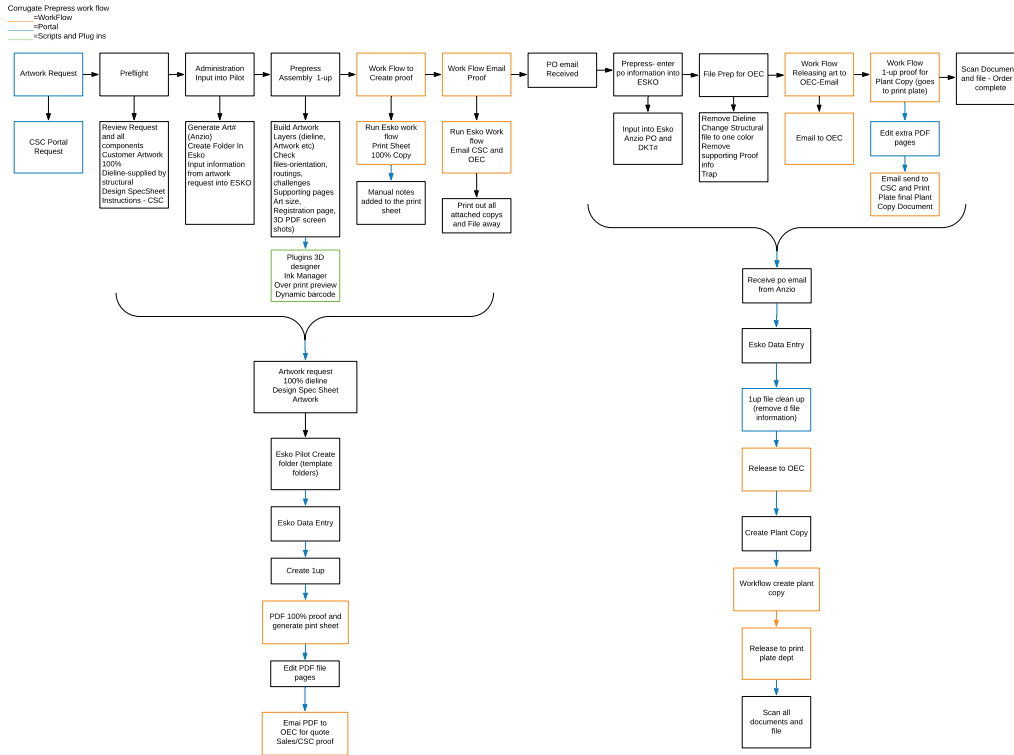
Additional Software/Training Recommendations

Below is a list of additional software or licenses needed to achieve suggestions mentioned in the previous section.

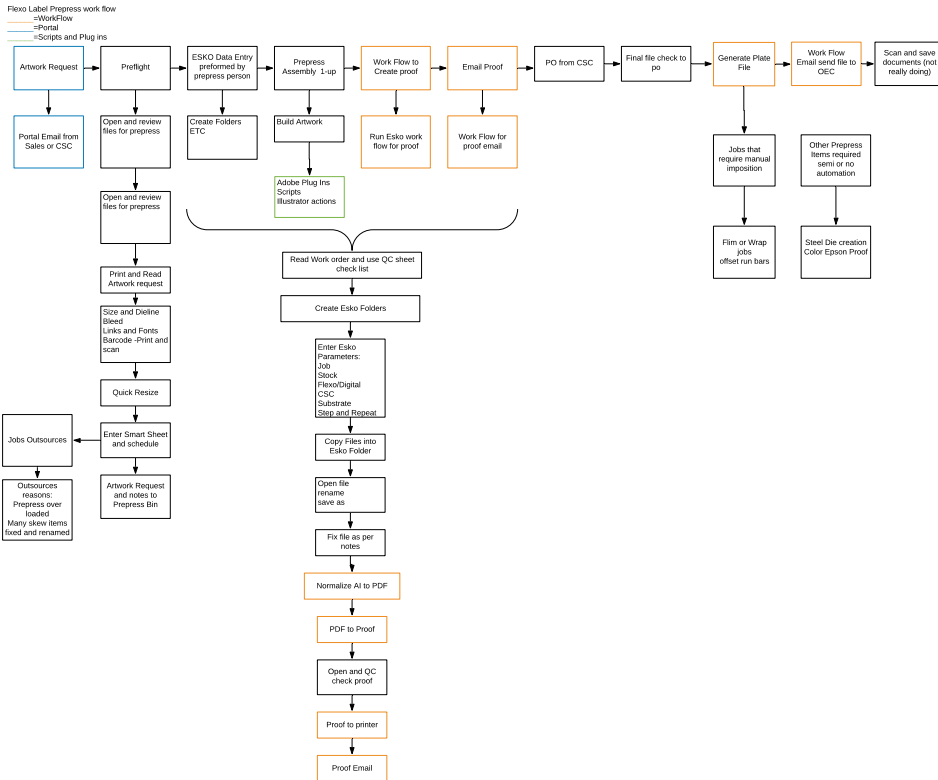
- Automation Engine Connect
- Color Preflight – Standard PMO solution
- Preflight training
- Smart mark training
- Advanced workflow building training
- ArtiosCAD Enterprise/WebCenter

Provided Flowcharts

Digital Label

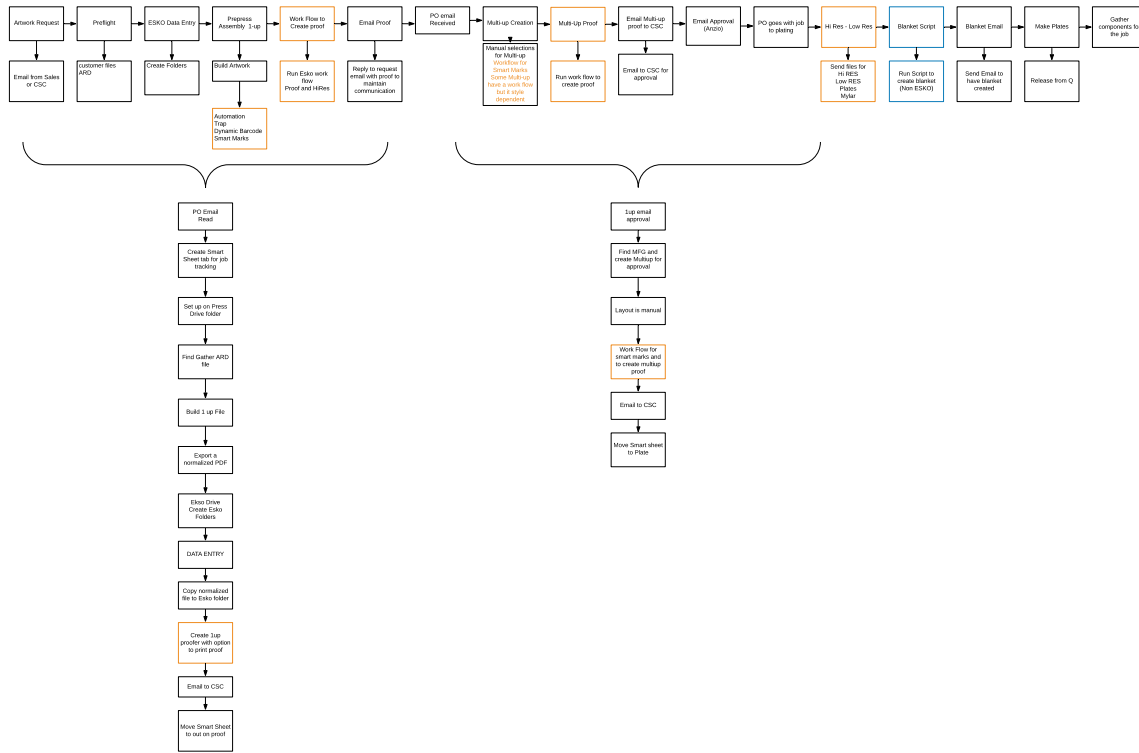


Flexo Label

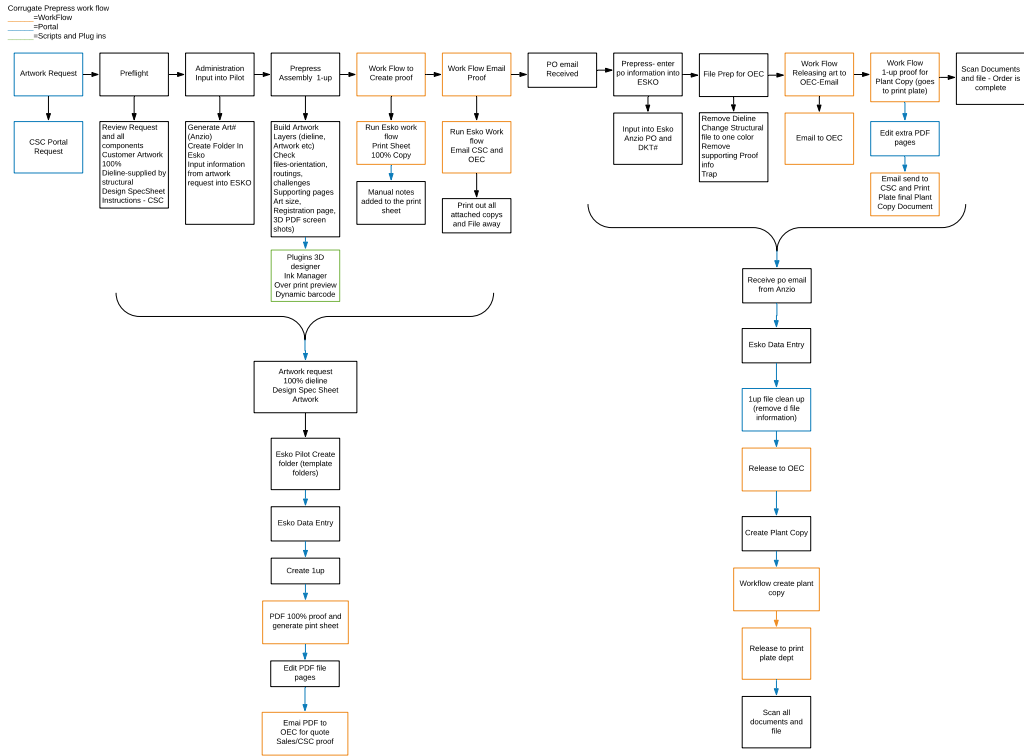


Folding Carton

Folding Carton Progress work flow - Workflow



Corrugated



Additional Documents

[Using Products](#)

[Integrating Automation Engine with External Systems](#)

9. SIGNATURE

Great Little Box Corporation	
Name	
Title	
Date	
Signature	