# **Automation Engine**

What's New in 23.03

Paul Land and Benedict Outtier Product Manager and Product Owner

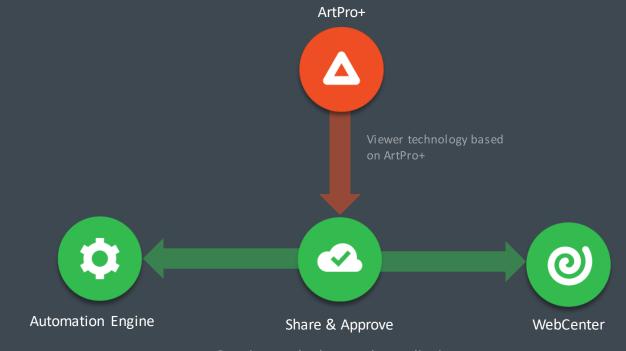


# New Viewer technology

Improved user experience and a host of new features to increase quality



# Unifying the Viewer

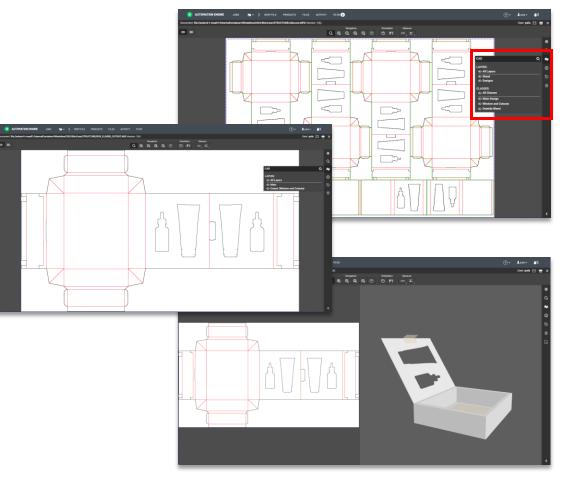


Port viewer technology to other applications



# View CAD Files

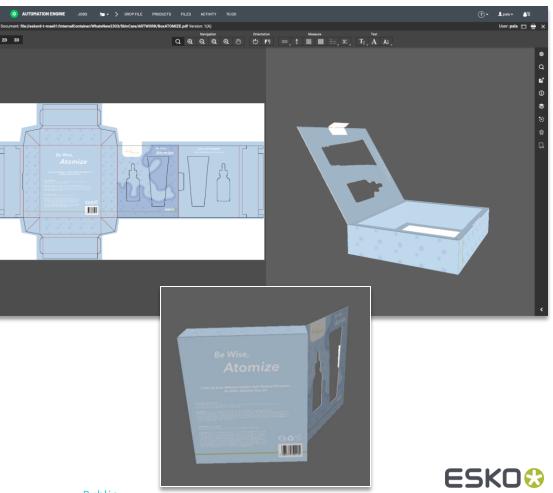
- You can now view CAD files in the AE Viewer
  - ARD, MFG, ZAE
- Enables quick and easy view on all the layers within the CAD file
- View in 3D, if folds have been defined
- Improves Quality Control



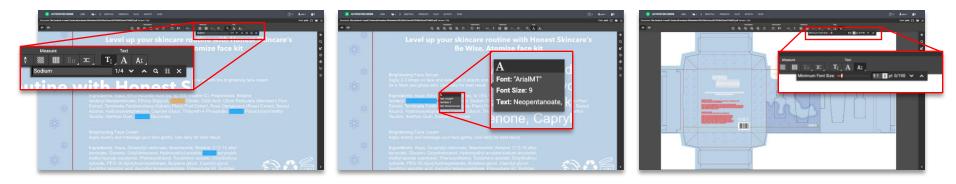


# **3D** Viewing

- Viewing files in 3D helps to correctly visualize the final product
- Easily detect incorrect elements placed on the wrong flaps
- No additional software required



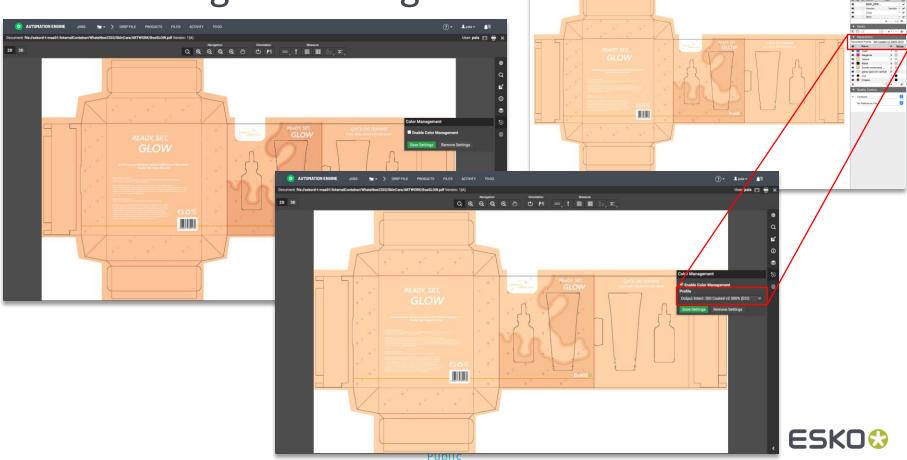
### New text tools



- Search for text in the file
- Font identification
- Highlight text that violates minimum point size



# Color Managed Viewing

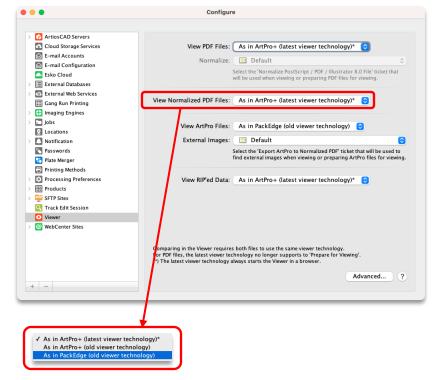


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# Viewing Normalized PDF files as in PackEdge

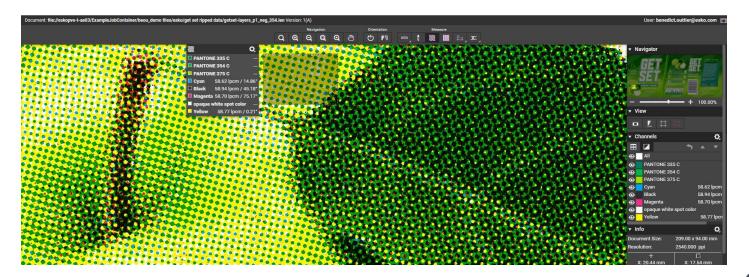
- View PDF files as in ArtPro+ while still viewing Normalized PDF as in PackEdge (its native classic editor)
  - Keeps original screening info





# Additional support for Digital Film

- Shows as printed result / easier during the QC process
  - Automatic inversion
  - Automatic re-mirroring





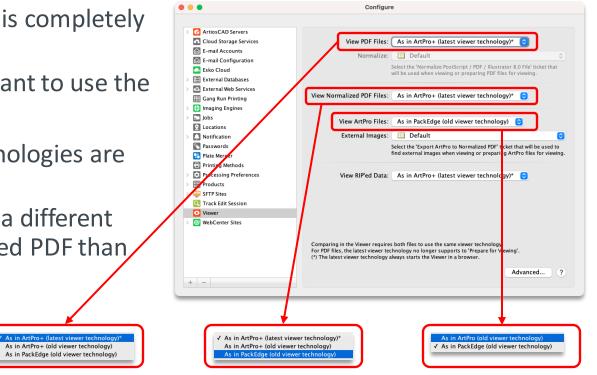
# **Known Limitations**

- Not possible
  - Cannot view ArtPro classic files
  - Cannot compare files using old *and* new technology
- Not available yet, but planned
  - Seamless view
  - Invert separation
  - Global Vision annotations
- A complete list of the known limitations can be found in the <u>release notes</u>



# Upgrade to the latest technology when it suits you

- The new viewing engine is completely configurable
  - Choose when you want to use the new engine
- All existing viewing technologies are available
  - Now possible to set a different engine for Normalized PDF than for native PDF(+)





# My Workspace

New in AE's browser client



# Improved user experience for Quality Control

• Easily compare 2 files from within a To-Do item

💿 AUT	ation engine jobs 👳 - > grop-file products files activity todo 🕄	
TO-DO	VERIFY RESULT	
	I am currently handling this to-do item	
From	enedict.outtier	Show Details
		Compare
Files	NAME	ACTIONS
		<u>*</u> • ···
		<u>a</u> • ···
Message	ompare the resulting file with the original input	

Products view: a new 'Compare To' function



# File actions in My Workspace

Copy, Move and Duplicate files and folders 

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WhatsNew2303	_				Show Job Details Close Job	5.	Click Move or C	opy here		
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BOX_OPEN_CUTOUT.ARD					NAME	<ul> <li>ACTIONS</li> </ul>	Containers		SIZE	KIND
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BoxATOMIZE.ai	000	PDF File	3.1 MB March	n 9, 2023 9:54 AM	BOX_CLOSED_CUTOUT.ARD		BO) SkinCare	ch 9, 2023 9:55 AM	59 KB	File
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4 of 28 items selected				Multip	BoxH20.al		BoxH20.ai	March 9, 2023 9:54 AM	591 KB	File
					BoxH20.pdf		-	March 9, 2023 9:54 AM	2 MB	File



- 2. Select Files
- Select Copy or Move 3.

Current Folder "ARTWORK" is selected

. .. .. c• 1 to



Cancel Move here

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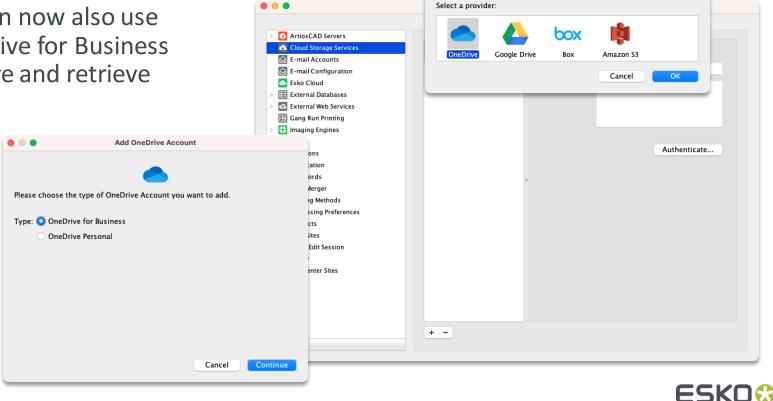
# Value for Maintenance

A host of new features designed to improve efficiencies



# Cloud Storage supports OneDrive for Business

You can now also use **OneDrive for Business** to store and retrieve files



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Add Cloud Storage Account

### Tools to improve workflow performance

- Keep the size of workflow tickets under control to improve performance
  - Oversized workflow tickets put a significant burden on the workflow server
  - Smaller workflows tickets consume less resources (RAM/CPU)
  - Increase workflow capacity by reducing the ticket size

					Tickets		
< > 早	Containers		≎ +				
Search: All Task	<b>CType Ticket Name Tags</b> Ticket Name	Description N Public	Iodified By First Submitted From Description	_	Tags	Modification Date	Keeping your workflow tickets
Workflow Workflow Workflow	prepress - general prepress - speed platemaking - std	~	- Contains all the functionalit Plating flow v1		pr, pri pr, pri pr, pri	26/01/2023, 09:06 12/01/2023, 15:14 17/03/2023, 14:22	s mall significantly improves the performance of your system

- Check the size of your workflow tickets to learn which ones can be optimized
  - 100 KB = perfect, size is optimal
  - 1,2 MB = it's better to optimize this ticket
  - 1,9 MB = this ticket must be optimized (warning dialog will pop up when saving)



### Tools to improve workflow performance

- Reduce workflow ticket size
  - Detect and remove unused public parameters and nodes with the new Warnings pane (replaces the 'Validate Workflow' tool)



Link to other workflows rather than embedding them



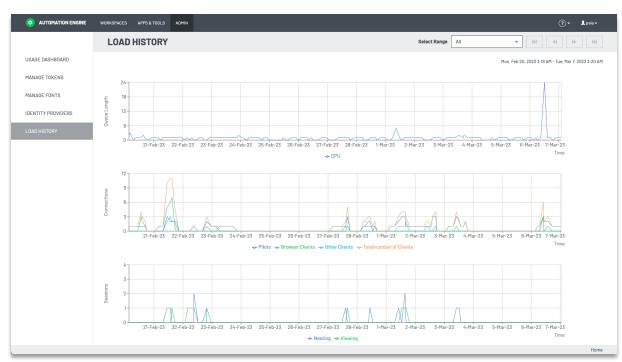
# Tools to improve workflow performance

- Too many workflow tokens affect performance and stability
- A workflow token limit was introduced
  - As a safety mechanism for an unexpected high number of tokens, workflows exceeding the limit will be automatically cancelled
  - It is possible to override this limit in Configure
    - But it is better to optimize your workflows (and increase capacity)
    - <u>This page in the manual</u> explains how to avoid an excessive amount of tokens



#### New Admin page: Load History

- Analyze the historical load on your Automation Engine server software
  - Concurrent tasks, users, viewers ...
- Is the capacity of the server still adequate?



# Approval Master for Share & Approve

Specify an approval master: one that can force approve/reject

• • •	Edit Ticket of Start Approval Cycle on Share & Approve		Edit Ticket of Start Approval Cycle on Share & Approve
4		4	
Approval Type:	By E-mail	Approval Type:	By E-mail
Approver:	somebody@esko.com	Approver:	somebody@esko.com 🗉 🚺
	A comma separated list of e-mail addresses.		A comma separated list of e-mail addresses.
Language:	English	Language:	English 📀
	This language will be used for unregistered users.		This language will be used for unregistered users.
Approval Master:	From folder setup	Approval Master:	somebodyelse@eskoc.om
	The e-mail address of a registered user.		The e-mail address of a registered user.
Due Date:	None 😌	Due Date:	None
? Save As	Advanced  Cancel OK	? Save As	Advanced  Cancel OK



# Resize Shape Improvements

 Support for Flat Bottom Bags in the 'Resize Shape' task

	Edit Ticket of Resize Shape	
<b></b>	Dutput in:	in (
4 Fi	le Name:	iin (
	Dimensions Seals Package Content	
Widt	th: From Input File	0
Lengt	th: From Input File	11
Side Lengt	th: From Input File	[]
Dept	th: From Input File	0
Show paramet		LJ
how paramet	ters for: All Bag Types Note that not every par This task only handles Pillow Bag	
Show paramet	ters for: All Bag Types Note that not every par This task only handles Gusseted Bag	ОК
·	ters for: All Bag Types Note that not every par This task only handles Advanced ♥ Fillow Bag Gusseted Bag Stand-up Pouch Tetrahedral Bag Quattro Seal Bag	ОК
·	ters for: All Bag Types Note that not every par This task only handles Advanced V All Bag Types Pillow Bag Gusseted Bag Stand-up Pouch Tetrahedral Bag	ОК
·	ters for: All Bag Types ✓ All Bag Types Note that not every par This task only handles Pillow Bag Gusseted Bag Stand-up Pouch Tetrahedral Bag Quattro Seal Bag Quattro Seal Bag with Back	ОК



## General Miscellaneous updates

- New search option in SmartNames view: search on content
- Updated PitStop library to PitStop 2022 update 1
- Updated GlobalVision SDK to version 5.12
- OAuth2 based E-mail Accounts can now be used for outgoing mail
- Export PDF Info task screening information from PDF+ files can be extracted
- And many more ...
  - See the <u>Release Notes</u> for a complete overview of all changes



# AE SaaS



## Connect to Web Services via the Agent

- An AE SaaS in a data center was not able to connect over HTTP to an MIS which is in another LAN.
- This is now also possible via the local Agent. These tools can now also use the Agent:
  It is the interact with Web Service
  - Interact with Web Service task
  - Web Service Access Point

-	Output in:		<ul> <li>Configure</li> <li>File Edit</li> </ul>	- 0
Service: Method:		Config Opt Value	E-mail Configuration     Esternal Databases     Databases     Databases     MMLS     MMLS     Multiple     maging Engines	Some settings are managed by your system administrator. URL: http://myMIS/apl Agent: rdvmae36 Primor onvermed 35C centrate Allow non-secure connection (http) Authentication: None User Name: Password:
Add Rer Parameters: Key what amount	move :	Value [Product Order Material Name] [Product Ordered Copies]	Plate Merger  Printing Methods  Processing Preferences  Products  FFTP Sites  Track Edit Session  Viewer	
Add Ren	move	OK	0	If you are experiencing connection issues, your web service may be blocked. In that case, please contact your system administrator. It might be necessary for your web service to be added to the white-list.



# Migration to Native PDF



## A new 'Adjust PDF Screening' task

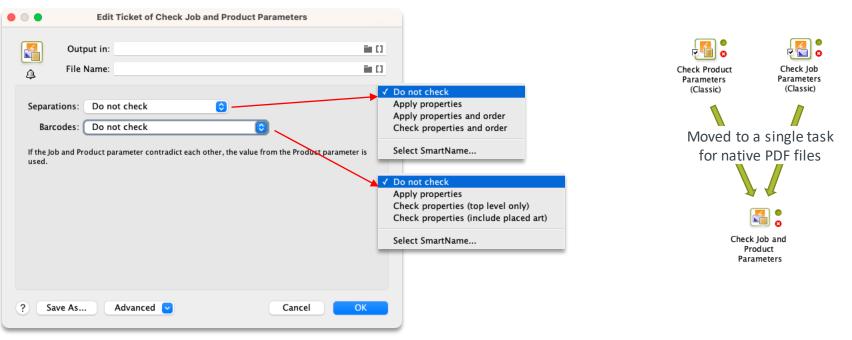
A PDF+ compatible task to 'Adjust PDF Screening'

Edit Ticket of Adjust PDF Screening			
Output in:	• • •	Rule Properties	
A File Name:	Name:		
Screening rules:	🗆 Ap	ply rule to all separations	
Rule Name Ruling Angle Dot St	If separation m	atches:	
	Ink name	<ul> <li>contains</li> </ul>	- +
	Apply separatio	on settings:	
	Ruling:	120 lpi	11
	Angle:	45°	11
	Dot Shape:	R	11
+ -			
Apply screening rules to unscreened objects			Cancel Add
? Save As Advanced 🕑 Cancel	ОК		



# A new 'Check Job and Product Parameters' task

A PDF+ compatible task to 'Check Job and Product Parameters'



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### **Updated Job Parameters**

- Barcode parameters in Job Setup are aligned with ArtPro+
  - Example: symbol size and Error correction for QR

Туре				Add
	• • •	Add Barco	de	Modify
	Type:	QR		Remove
	Symbol Size:	25 x 25 📀		
	Error Correction:			
	Code:	м		
	Composite Code:	Q H		_
	Output Resolution:			
Details	Bar Width Reduction:			
Type: Symbol Size:	Device Compensation:			
Error Correction Code:	Cell Size:			
Composite Code	Magnification:			
Output Resolution Bar Width Reduct Device Compension	Ratio:			
Narrow Bar: Magnification:			Cancel	ОК
Ratio:				





# Prepare for sharing

'Export Flavor' option was added

✓ For Press For Press (PDF 1.3)	· · · · · · · · · · · · · · · · · · ·
For Viewing Custom	
Select SmartName	

 Per selected use case, it selects, deselects, enables or disables the relevant options

•••	Default - Prepare for Sharing	
Output in:		ii () ii ()
Export Flavor:	For Press	3
Run Action List:		≝[]
Layers:	<ul> <li>Include processing steps</li> <li>Include non-printing layers</li> </ul>	
Images:	Downsample to 1 300 ppi	11
Image Compression:	Lossless compression	0
Apply on Export:	<ul> <li>Outline text []</li> <li>Apply distortion []</li> <li>Include color profiles []</li> <li>Add single-color page per separation []</li> </ul>	
? Show Steps	Cancel	Save



# Imaging Engine using Dynamic Marks

 Imaging Engine tasks now also support Dynamic Marks

SmartMarks (Classic)

		Default - I	mage to Screened Separations	
w also	Device:	ESKORD-T-MAE01	0	
	٩			
	General			
	Transformations	Page Box:	Media Box	[] 🔽
	PDF Objects			
	Processing Steps	Pagas	All pages	[] 🔽
	Inks	Pages:	All pages	11
	File Output	Page Range:		[]
	Rendering		Enter page numbers and/or page ranges	
	Separations		separated by commas (e.g. 3,6-9)	
	Corrections			
	Exceptions		A         I         Edit	
	Summary		<b>E I I</b> <u>Edit</u>	
		Type of Marks:	Dynamic Marks	[] 🔽
		Mark Set:	None	[]
	? Show Steps		Cancel	Save
	? Show Steps		Cancel	Sa



## Other PDF+ improvements

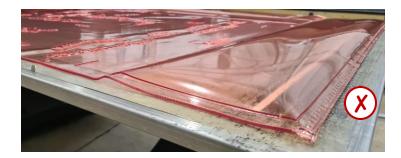
- New text engine used for marks and VDP
  - It may generate slightly different output compared to previous versions, but it should be closer to the text engine from Adobe Illustrator
- VDP Improvements
  - New type of text mark: 'Text on path'
  - Variable placed art (PDF file) was added
  - Many more barcode types supported as variable barcode
- New PDF Action list actions
  - Spread thin parts
  - Move objects to processing step layer
  - Update trap layer



# Flexo Engine



# Grid Pattern Fill option for Solvent Saver



The **"Solid"** Solvent Saver fill (default till 23.03) resulted in thicker plates curling

Due to excessive solvent absorption



The new **"Grid Pattern"** fill option significantly reduces plate curling



# Grid Pattern Fill option for Solvent Saver

Name: DFQ 1.14 (045) - SolventSa	<ul> <li>Merge Settings</li> </ul>	>
late Type: DFQ 1.14 (045)	Minimum Fill:	100.0%
lerge for:	Overrule Minimum Fill:	0 hours 0 minutes before due dat
Active Device ^		Press plates will be merged once the minimum fill percentage is reached. If the minimum fill
x_DeviceManagerCDI_rel		percentage is reached. If the minimum hill percentage is not reached at the specified time before the due date, the press plates will be merged anyway.
	Rotation:	Allow 90 degree 🗸
	Auto-place Mode:	Area Optimized 🗸 🗸
	Maximum Calculation Time:	30 seconds
	Cut Marks:	None 🗸
	Press Plate Margins:	0 mm
		Press plate margins will be extended to 4 mm on the merged plate as soon as it contains a press plate for which a text label was specified.
Add Remove Edit	Solvent Saver:	Yes 🗸
	Solvent Saver Margin:	4 mm
/orkflow: Create Merged Plate & sub	Solvent Saver Fill:	Grid Pattern 🗸
	Maximum Grid Cell Width:	50 mm
	Maximum Grid Cell Height:	50 mm
	Grid Cell Gap:	5 mm

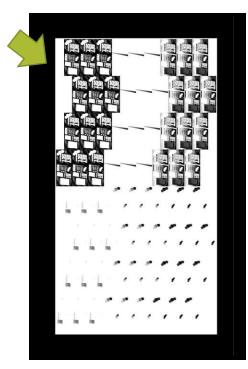
#### How to activate?

- Merge Settings
- Two fill options:
  - Solid
  - Grid Pattern
- Grid Pattern parameters:
  - Maximum Grid Cell Width
  - Maximum Grid Cell Height
  - Grid Cell Gap
- Defaults are 50 mm, 50 mm and 5 mm

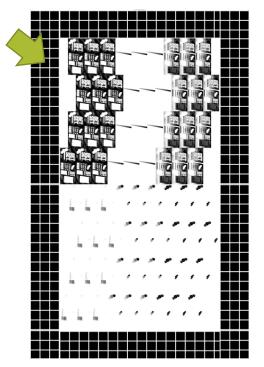


# Grid Pattern Fill option for Solvent Saver

**'Solid Fill'** 

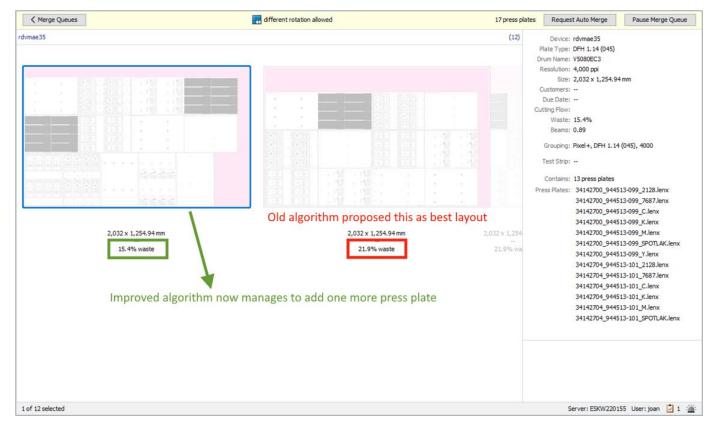


#### New 'Grid Pattern Fill'





# Improved Merging Algorithm

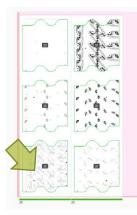


ESK0 😳

# Nested Merging in Layout Proposal Editor

Better visual guidance when manually optimizing merged plates with staggered cut layouts:

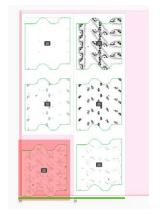
- Red indication when moving press plates with outside labels on top of each other (not supported)
- Red indication when cut lines are crossing the plate edges:



**Original Position** 



Still OK



Dragged down too far



# Margins now configurable on Merge Queue Level

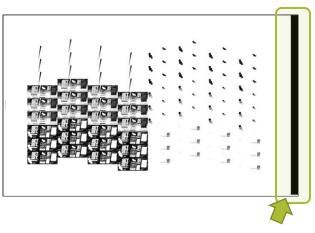
<ul> <li>Configure</li> </ul>				- 🗆 X
File Edit				
Her Edit      Her Kip - BI      FlexRip - CDI      FlexRip - CDI Compact      FlexRip - CDI Spark      FlexRip - Proofer Output      FlexRip - Proofer Output      FlexRip - Screened Output      FlexRip - Screened Output      GlobalVision      GlobalVision      Model Imaging Engines      Locations      Notification      Passwords		Test Strips Margins matching rule will be applied Drum Any Drum Any Drum	to the layout: Merge Queue DEF 1.14 (045) Any Merge Queue	Margin 10, 10, 10, 50 mm (e 5, 5, 5, 5 mm
Plate Merger Printing Methods	Add Rem	Edit	M	love Up Move Down
Processing Preferences				



# Support for Crystal Clean Connect

- Crystal Clean Connect needs a right margin that is exposed on the merged plate
- New 'Expose right margin' option in the Edit Merged Plate Margins panel

PlexRip - BI     PlexRip - CDI     PlexRip - CDI     PlexRip - CDI Compact     PlexRip - CDI Compact     PlexRip - CDI Spark	Setup Reporting Test	Strips Margins ching rule will be applied to	o the layout:		
FlexRip - HP Indigo 4000 Series	Device	Drum	Merge Queue	Margin	
FlexRip - Proofer Output	Any Device	Any Drum	DEF 1.14 (045)	10, 10, 10,	50 mm (e.,
FlexRip - Screened Output	Any Device	Any Drum	Any Merge Queue	5, 5, 5, 5 m	m
Gong Run Printing		Edit Merged Pl	late Margins	×	:
			Any Device	~	
Locations     Notification			2: Any Drum 2: DEF 1.14 (045)	~	
Passwords		Margins:	10 mm		
Plate Merger Printing Methods	Add Remove		10 mm		Down
Processing Preferences			] 10 mm 50 mm		
			Expose right margin		



Exposes right margin of the plate



# System requirements & Known Limitations



# System requirements & known limitations

- Support for SQL 2022
  - Automation Engine now supports SQL 2022 Server as a database engine
  - New Automation Engines are now installed with SQL 2022 Express
  - SQL Server 2012 is no longer supported



