

Esko Software Platform

What's New in Automation Engine 16

Esko Global Support

Last revised 31-mar-17

Topics overview

What's New in Automation Engine 16 | Topics

- Automated quality control | based on **Global Vision technology**
- Cloud Storage interaction | part of Automation Engine Connect
- Integration with Kongsberg | Device Manager for Kongsberg
- Integration with CDI | Device Manager for CDI

Requires v16.0.1

Requires v16.0.2

Automated quality control

Global Vision Inspect Tools

- A set of new tasks based on **Global Vision technology**
 - › *Inspect Artwork*
 - › *Inspect Braille*
 - › *Inspect Barcode*
 - › *Inspect Text*
 - › *Inspect Spelling*
- A configure panel for Global Vision licensing
- The Global Vision Profile Editor to create or modify profiles



Global Vision Profile Editor

Global Vision Profile Editor | Introduction

Several of the inspection tasks ask you to select an inspection Profile. You can change and create such profiles using the **Global Vision Profile Editor**.

The screenshot displays the Automation Engine Server web interface. At the top, a dark blue header bar contains the 'Automation Engine Server' logo and a navigation menu with 'CLIENT APPS' (highlighted with a yellow box), 'SAMPLES', 'SERVER ADMIN', and 'SERVER CHECKS'. Below the header, a breadcrumb trail reads 'Home > Client Apps > Tools'. The main content area is titled 'Server EAW14VM170' with a 'running' status indicator and a 'Log in to another server' link. A left sidebar shows 'Main' and 'Tools' (selected). The 'Tools' section lists several utilities, each with a green gear icon and a 'DOWNLOAD' button. The 'Global Vision Profile Editor' tool at the bottom is highlighted with a yellow box. It is described as 'Edit Profiles and Language files for the Global Vision Inspection Tasks.' The footer of the interface includes the copyright notice '© Esko Software byba 2014 - Packaging and printing pre-production solutions - [Esko Help Center](#)'.

Automation Engine Server

CLIENT APPS SAMPLES SERVER ADMIN SERVER CHECKS

Home > Client Apps > Tools

Server EAW14VM170 running [Log in to another server](#)

TOOLS

- Script Runner** [DOWNLOAD](#)
Allows you to automate tasks in applications like Illustrator, Photoshop, InDesign using scripting via the Run Script task in the Automation Engine Pilot.
- ArtPro Action List Editor** [DOWNLOAD](#)
Create and edit ArtPro Action List files to automate tasks in ArtPro via the ArtPro Action List task in the Automation Engine Pilot.
- RunList Editor** [DOWNLOAD](#)
Create and edit RunLists to collect several files into one job folder, or to make one final PDF out of several smaller PDFs (e.g. for imposition).
- PitStop Profile Editor** [DOWNLOAD](#)
Create and edit PitStop profiles and action lists to preflight PDF files with.
- Automation Engine 10 Backup** [DOWNLOAD](#)
Make a backup of an Automation Engine 10 server that you can restore on another Automation Engine server.
- Global Vision Profile Editor** [DOWNLOAD](#)
Edit Profiles and Language files for the Global Vision Inspection Tasks.

© Esko Software byba 2014 - Packaging and printing pre-production solutions - [Esko Help Center](#)

Global Vision Profile Editor

- Version of Global Vision's standalone application ArtProof / ScanProof (the Esko version has a **different interface and functionality**).
- **Test and manage Profiles** that are used in Automation Engine's Inspection tasks.
- Interactive tools to **compare artwork**, **inspect barcodes**, **translate braille**, **inspect text or spelling**.

Caution: This application is very memory intensive, especially when you open files that are large in dimensions, or if you request a high resolution

Note: As with the Inspection tasks, you need a license from Global Vision to use the application



Global Vision Profile Editor | How does it work?

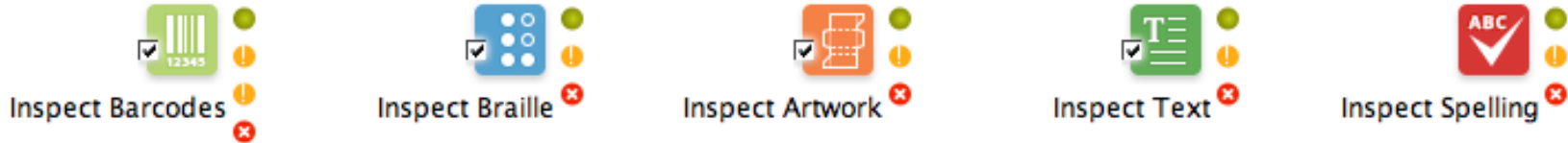
- The application first creates **rasterized files** at a chosen resolution and then inspects those files.
- PDF files and PDF compatible AI files are first opened in a Prepare PDF window where you can choose to crop to a specific region or to ignore inks or layers before the file is being rasterized.
- **File Support**
 - PDF and AI (when PDF compatible)
 - RIP data: TIFF, LEN
 - Pictures: BMP, PNG, JPG
- The Inspect Text and Inspect Spelling modes also support these file types:
 - DOC, XLS, XLSX, XML, HTML

Learn more about the Global Vision Profile Editor in the [Automation Engine user manual](#) (see chapter “Quality Control tools”).

Global Vision Inspection Tasks

Global Vision Inspection Tasks | Overview

Automation Engine 16 offers a set of tasks that use technology from Global Vision.



Barcode Inspection task | verify barcode(s) in the background to avoid opening every single file for verification.

Braille Inspection task | a task to verify a braille separation to be sure the content of this separation is correct.

Artwork Inspection task | this task performs a pixel-based comparison between 2 files and supports PDF, AI (PDF-compatible), BMP, TIFF (including 1-bit), JPG, PNG.

Text Inspection task | compares text information received from your customer versus the text that is used within the artwork to ensure no typo's or copy/paste errors happened during the artwork creation.

Spelling Inspection task | perform a spell check on your text to be sure there are no text mistakes being sent to the Artwork studio or pre-media company which will lead to extra iterations or even wrong printed products.

Global Vision Profile Editor | Inspect Barcodes

The screenshot shows a macOS-style dialog box titled "Edit Ticket of Inspect Barcodes". At the top left is a green icon with a barcode and the number "12345". Below it is a bell icon. The main area contains several settings: a "Check Barcodes" button and a "Report" button; a "Minimum Grade:" dropdown menu set to "A"; a "Profile:" dropdown menu set to "Default"; a checkbox labeled "Compare barcode data with job or product barcode data" which is unchecked; a "Region:" dropdown menu set to "Visible Objects" with an "Options..." button next to it; a "Resolution:" text field set to "300 ppi"; an "Ignore Inks:" text field with a help icon and the text "A comma separated list of ink names." below it; and an "Ignore Layers:" text field with a help icon and the text "A comma separated list of layer names." below it. At the bottom left is the "Powered by GlobalVision" logo. At the bottom right is a "Configure..." button. The very bottom of the dialog has a "? Save As..." button, a settings gear icon, a "Cancel" button, and an "OK" button.

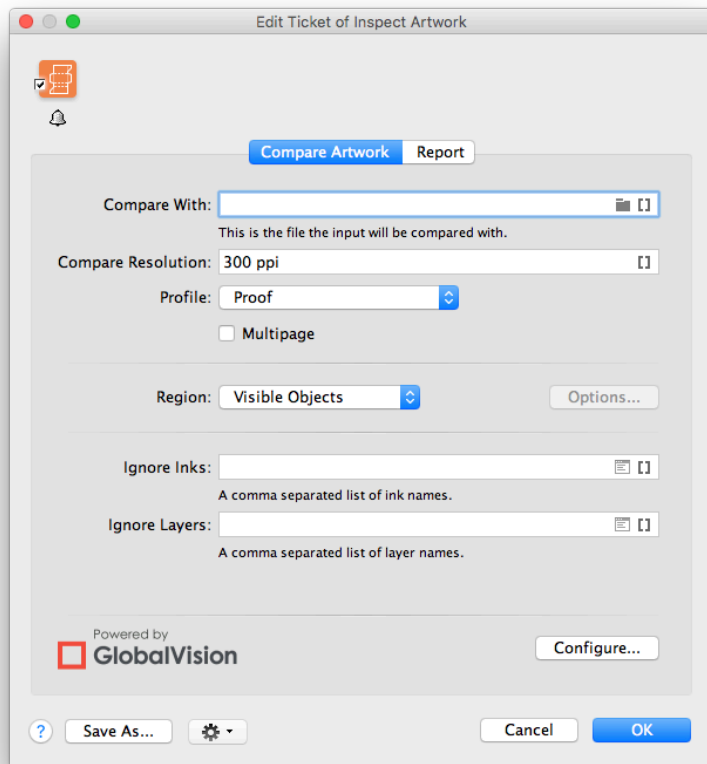
- Inspects all barcodes in a file.
- Scans and decodes them.
- Verifies their grade (quality level) against the minimum grade chosen in the ticket.
- Possibility to compare against Job or Product barcode.

Global Vision Profile Editor | Inspect Braille

The screenshot shows a macOS-style dialog box titled "Edit Ticket of Inspect Braille". It features a toolbar with a "Check Braille" button and a "Report" button. Below the toolbar, there is a "Language:" dropdown menu set to "English". A checkbox labeled "Compare braille data" is currently unchecked. The "Braille Data:" field is empty. The "Region:" dropdown menu is set to "Visible Objects", with an "Options..." button next to it. The "Resolution:" field is set to "300 ppi". The "Select Inks:" field is empty, with a subtext "A comma separated list of ink names." below it. The "Select Layers:" field is empty, with a subtext "A comma separated list of layer names." below it. At the bottom left, there is a "Powered by GlobalVision" logo. At the bottom right, there is a "Configure..." button. The bottom of the dialog box contains a row of buttons: a help icon, "Save As...", a settings icon, "Cancel", and "OK".

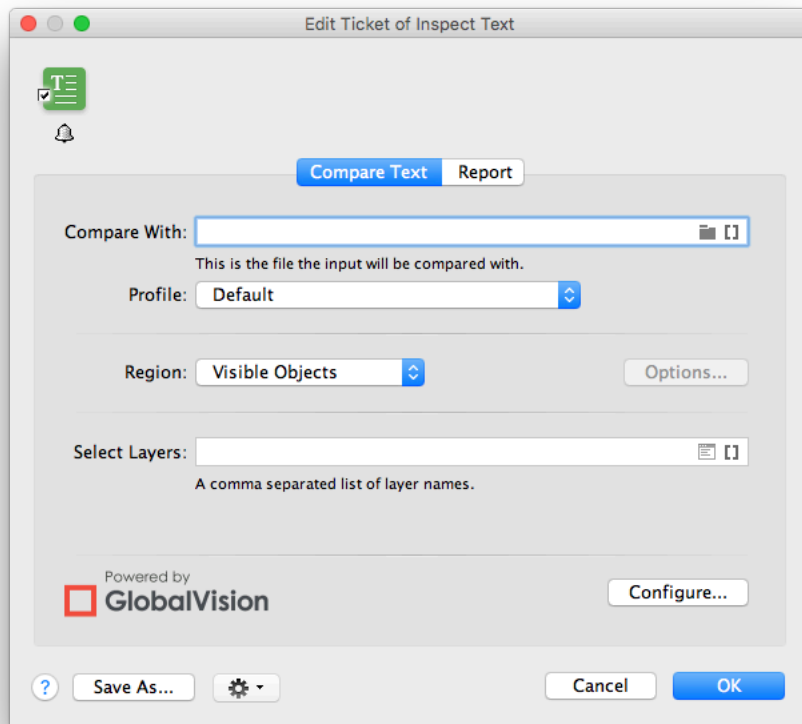
- Detects braille, translates it to a chosen language.
- Displays information such as the language, number of dots, number of characters, number of lines, dot spacing, character spacing, word spacing and line spacing values.

Global Vision Inspection Tasks | Inspect Artwork



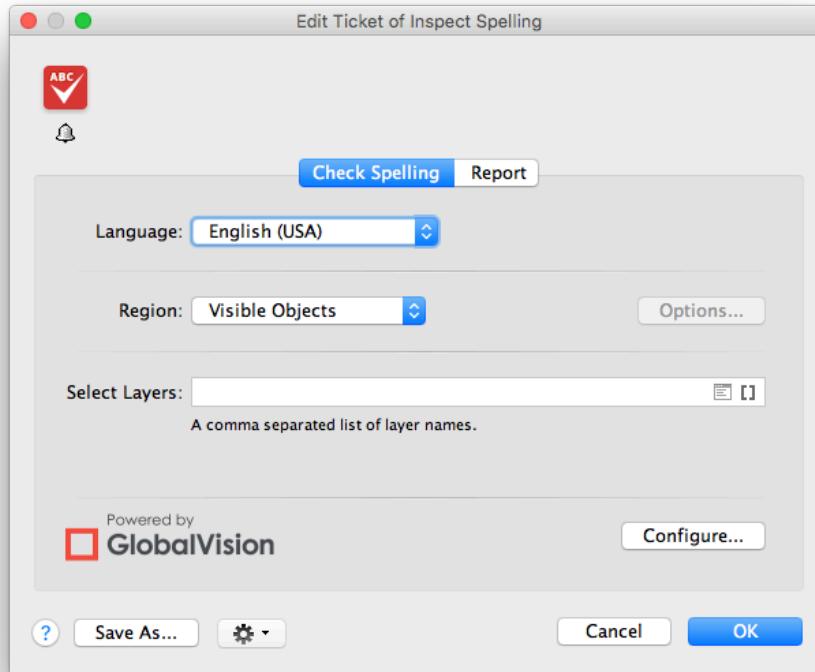
- Compares one or more 'sample' files to a 'master' file.
- Selects the defined region of interest, aligns the files and then compares them.
- Supports multi-page inspections as well as step & repeat files.

Global Vision Inspection Tasks | Inspect Text



- Compares the text in the input file with the text in another file.
- A profile defines how should be compared and what should be seen as a difference (for example if you consider a font type or font size change a difference)

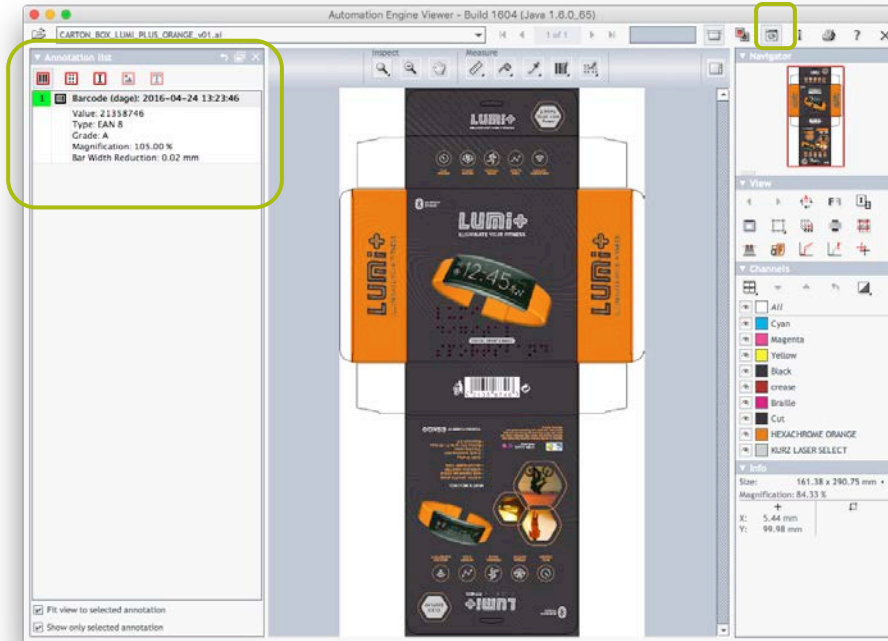
Global Vision Inspection Tasks | Inspect Spelling



- Checks the spelling of the text in the input file.
- Specify the language (this can also be a custom dictionary).

Global Vision Inspection Tasks | Reporting


Annotations are written in the input file or stored as an extra output pin (XFDF) and read by the viewer.




NOTE: these annotations can also be read in Adobe® Illustrator® with DeskPack on board. The annotations plugin is part of the free data exchange plugin.

Global Vision Inspection Tasks | Reporting

A report (PDF and/or XML) is written in a chosen directory.




Powered by
 GlobalVision

File: CARTON_BOX_LUMI_PLUS_ORANGE_v01.ai
Page(s): 1/1

Inspected by: dage
Inspected on: 4/24/2016 1:23 PM (UTC+02)

Barcode(s)



Barcode Results Summary	Grade A	Grade B	Grade C	Grade D	Grade F	N/A
Barcode(s) found: 1	1	0	0	0	0	0

4/24/2016 1:23 PM (UTC+02)

Version: 3.1.0.83 31-Mar-2016

Page 1 of 4

Cloud Storage interaction

Cloud Storage | Access Points to Download Files

- A cloud storage Access Point scans a folder "in the cloud" and downloads (moves) any new files that appear in that folder or its subfolders onto a folder in an Automation Engine Container.
- The downloaded files are removed from the cloud storage and AE starts a workflow with those files.

We currently support these 3 cloud storage providers:



OneDrive



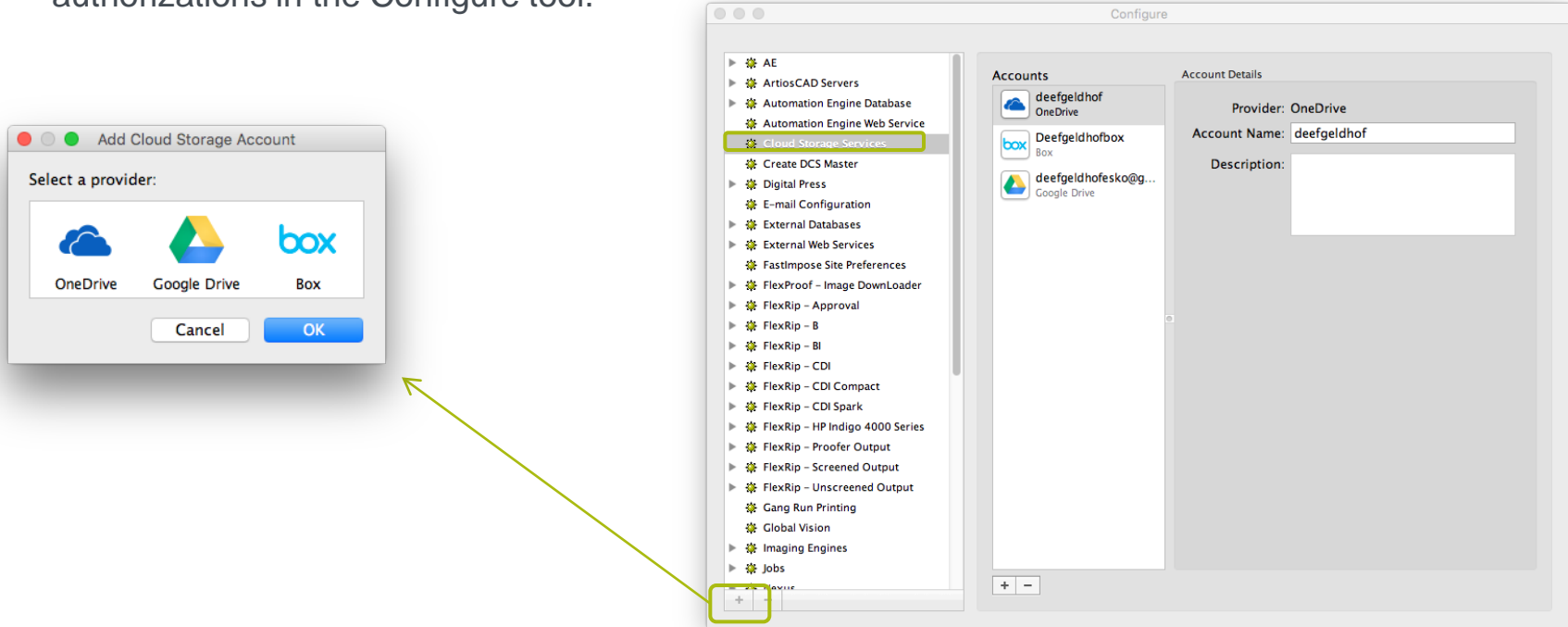
Google Drive



Box

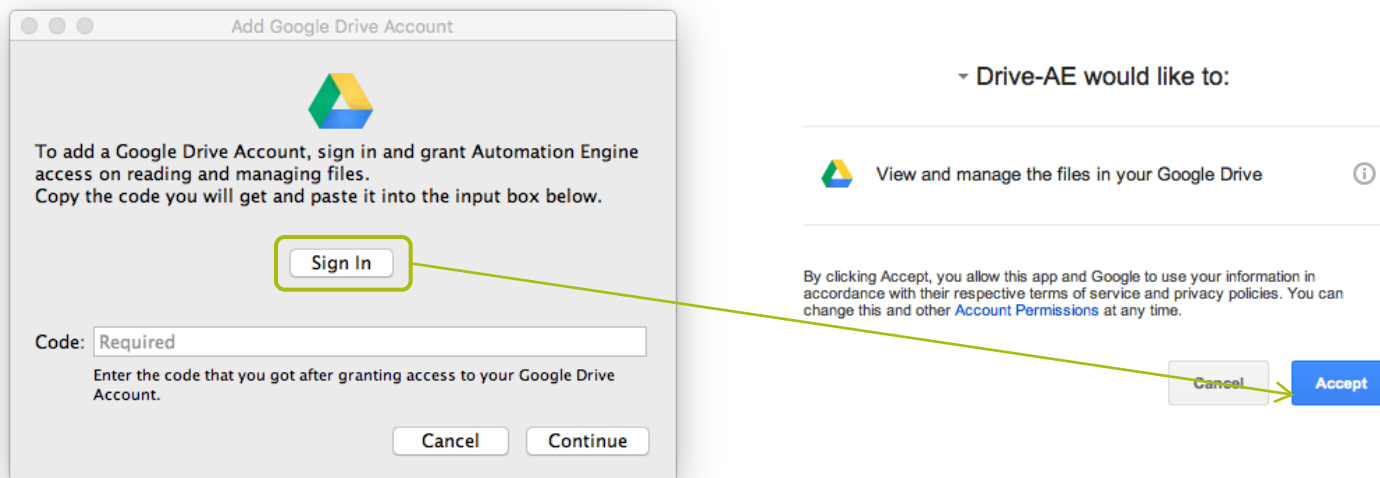
Cloud Storage | How to add an account?

Before you can use such an Access Point, you need to configure one or multiple account authorizations in the Configure tool.



Cloud Storage | Authorize an account

Sign in with a Google / Microsoft / Box account and grant access to that account so Automation Engine can access your online folders.



Access Points | Generic options

Most of the options are identical to those documented for other Access Points.

Modify Google Drive Access Point

Name:

Description:

Google Drive Settings | Monitoring | Automatic Actions

Account:

Folder:

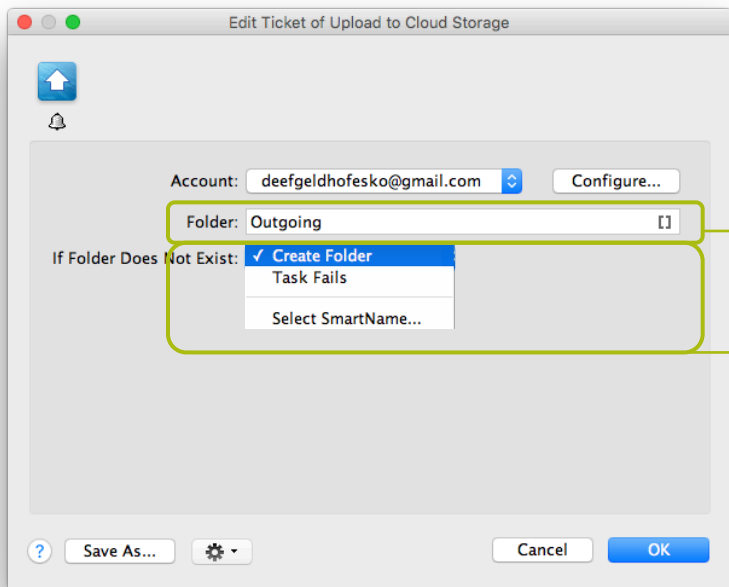
This is the folder that will be monitored.

Account: Choose an account from the list that you added in the Configure tool. Only the accounts for the selected provider are shown.

Folder: By default, this is the account's home directory. Subfolders of the specified folder are also scanned! When you do not want all these folders scanned, you can specify a subfolder, for example "/PrePressData ". Then, only all data in that folder and its subfolders will be scanned.

Upload tasks | Upload to Cloud storage

This task uploads files to a folder on a cloud storage service (Box, Google Drive or OneDrive).



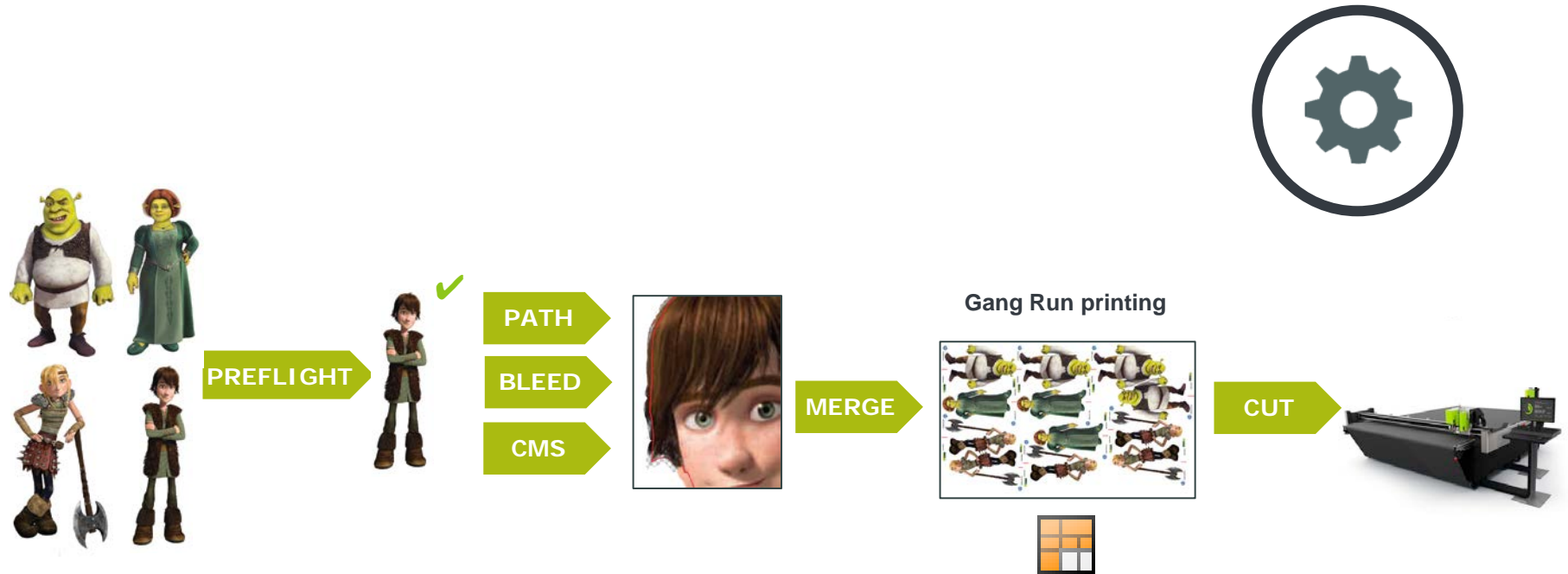
Folder: Define the folder where you want to upload the files. When you leave this field empty, the files are uploaded to the account's home directory.

NOTE: When the destination folder does not exist, you can Select a SmartName that returns the value "1" to create a folder. Select a SmartName that returns the value "0" to force the task to fail.

Device Manager for Kongsberg

Requires v16.0.1

Device Manager for Kongsberg | Workflow overview



Device Manager for Kongsberg | What do you need?



- **iPC (i-cut Production Console) v2.0.1** or higher. This is the new front-end software for the Kongsberg table.
 - NOTE: iPC only works with a Local License so it is not possible to use Remote Desktop!
- License for **Device Manager for Kongsberg**.
- License for **Layout module** to produce nested layouts (Gang Run Printing)

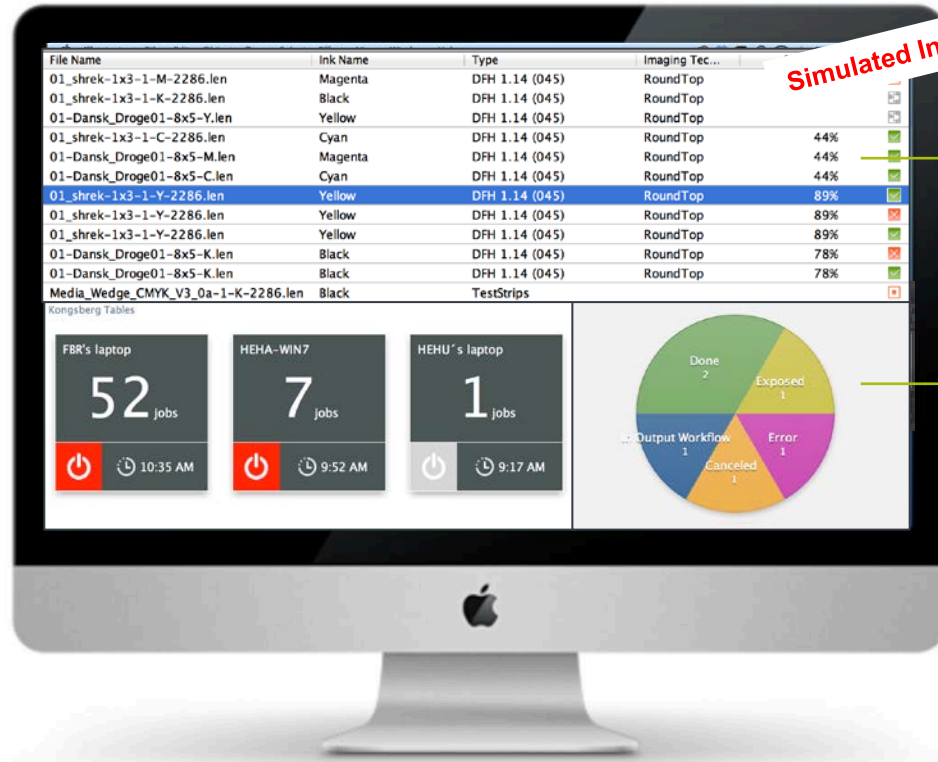
DM for Kongsberg | Controlled cutting tools

- Job **tracking**
- Production **reporting**
 - Utilization feedback
 - Machine and Job feedback
- Production **planning**
- Machine **visibility** from everywhere
- Creating **nested layouts**
- **Estimation**





DM for Kongsberg | Tracking status Job



Clear overview what the status of the job is at any time

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<FlexoPlateReport Generated="2016-02-16T15:19:09+0100">
```

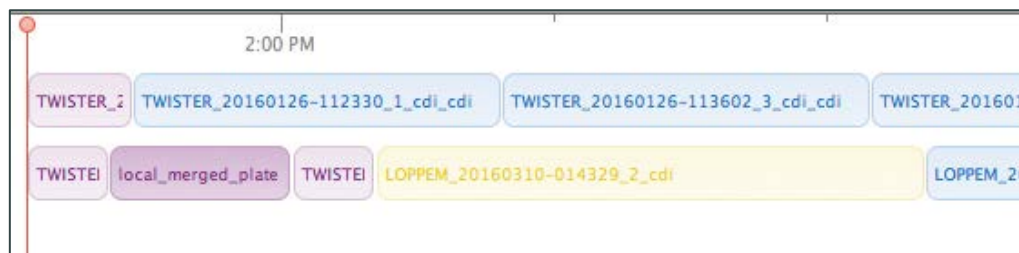


- How many sheets?
- How much square mm cut?
- When output started/ended?
- ...

- Total amount of sheets cut?
- How much uptime/downtime?
- Total sheet usage/wastage?
- ...

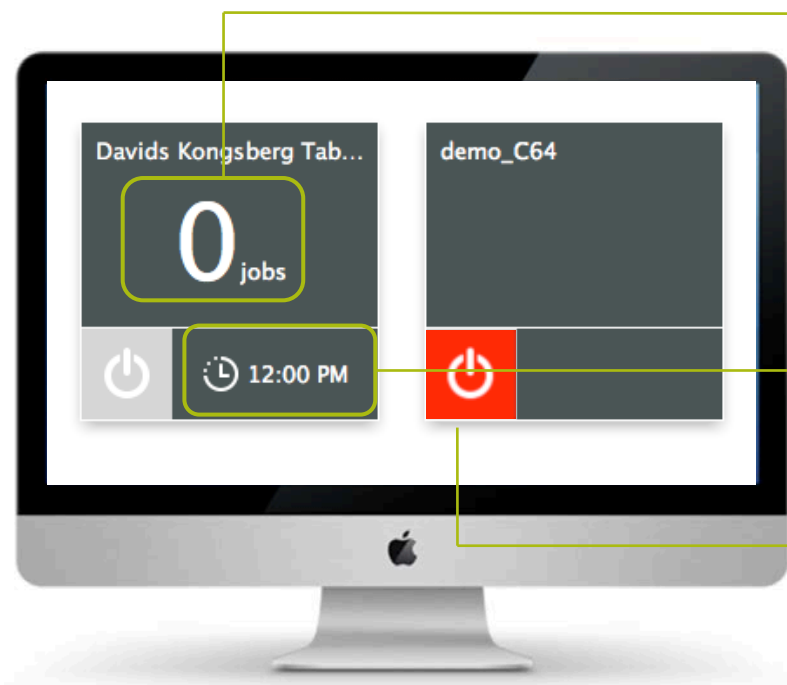


Drag & Drop changing priorities of jobs on the same table.



Coloring based on job type, tooling, substrate, etc. helps planning the jobs more efficiently.

DM for Kongsberg | Machine status



Jobs waiting for cutting

Estimated end time of plates in the queue

Status of device



Device Manager for CDI

Requires v16.0.2

Device Manager for CDI | What do you need?

- Check with Esko Support if your **Grapholas and or DFS Merger/Exposer** has the required version.
- Optionally, to drive the cutting workflow, you need i-cut Production Console 2.0.1 build 1328 or more recent.
- License for **Device Manager for CDI**
- **Automated Flexo plate making module**
 - **Tasks to crop / add margins to LEN files**
 - **Automatic merging in AE**

Device Manager for CDI | What is it?

- Job **tracking**
- Production **reporting**
 - Utilization feedback
 - Machine and Job feedback
- Production **planning**
- Machine **visibility** from everywhere
- Manual Plate Merging
- **Estimation**

Learn more in the [Automation Engine user manual](#)





Tracking Job Status

Simulated Interface

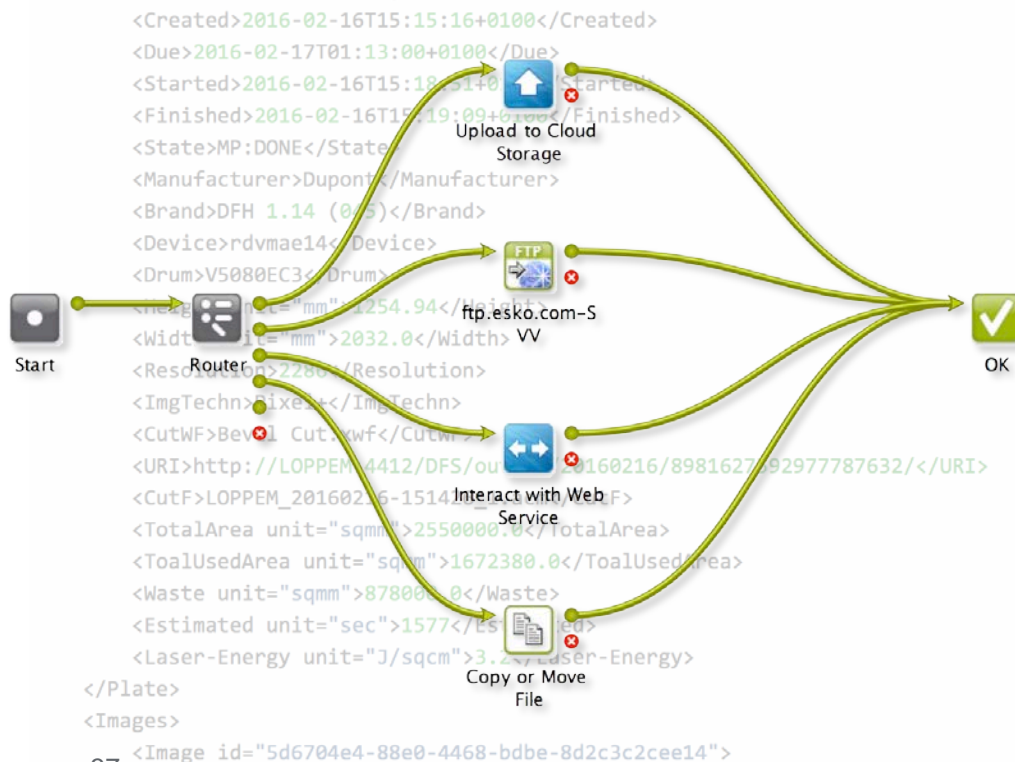


Clear overview of what the status of the job is at any time



Reporting & Analytics

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<FlexoPlateReport Generated="2016-02-16T15:19:09+0100">
  <Plate id="56c3-2ef4-0001@rdvmae14">
```



JOB INFORMATION

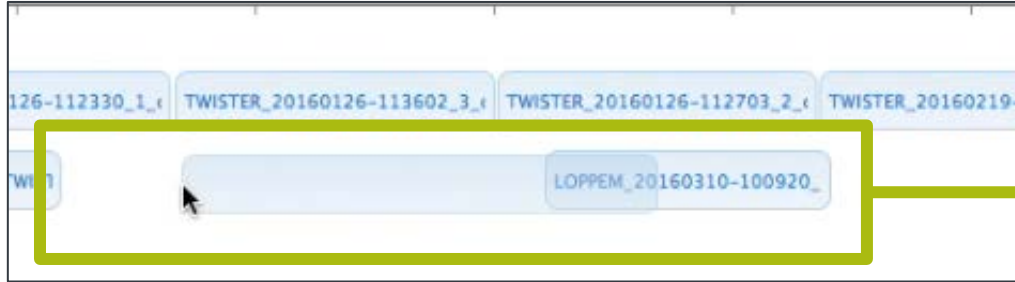
- How many plates?
- How much square mm exposed?
- When output started/ended?
- ...

MACHINE INFORMATION

- How many CDI plates exposed?
- How much uptime/downtime?
- Total plate usage/waste?
- ...



Planning Board

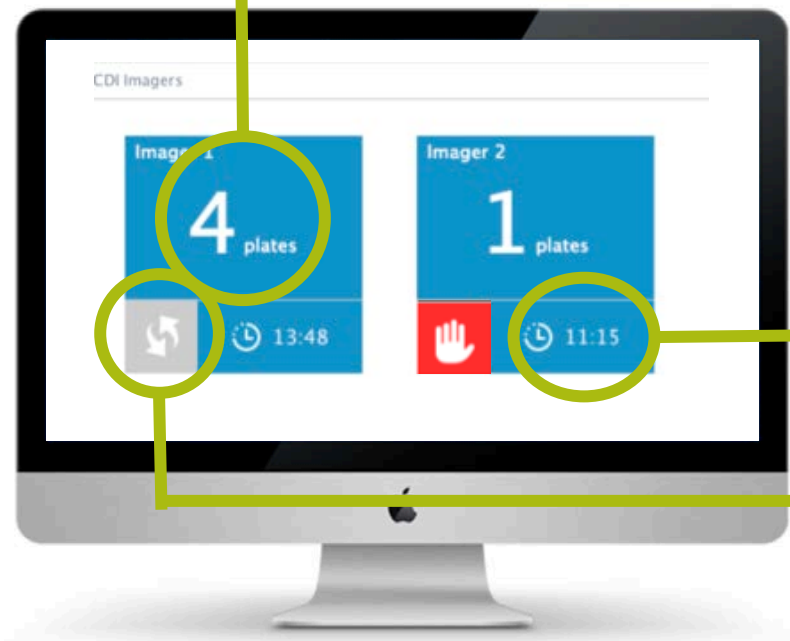


Drag & Drop changing priorities of plates on the same CDI or even from one device to another.



Coloring based on plate type, resolution, separation names etc. help planning the jobs more efficiently.

Machine Status



Plates waiting
for exposure

Estimated end time
of plates in the queue

Status of device



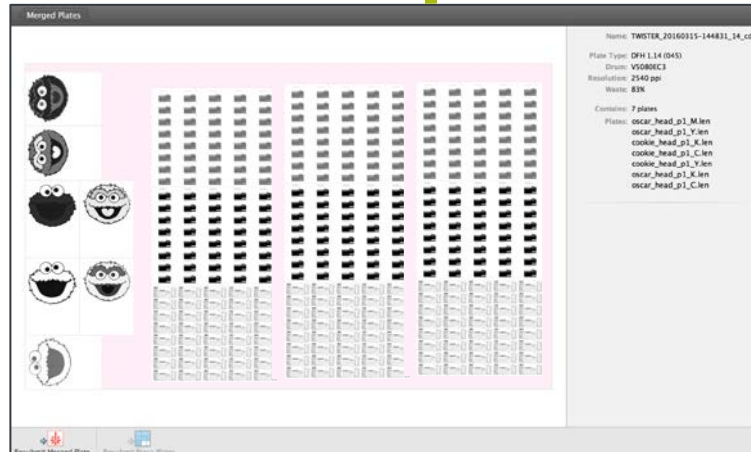
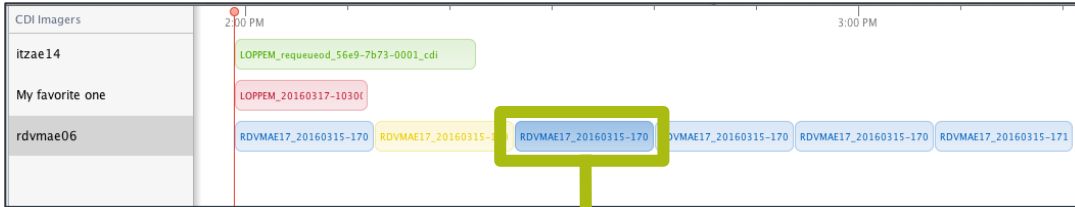
Visibility on workload per CDI



Clear time line on merged plates to be exposed.

Extra information on plate content.

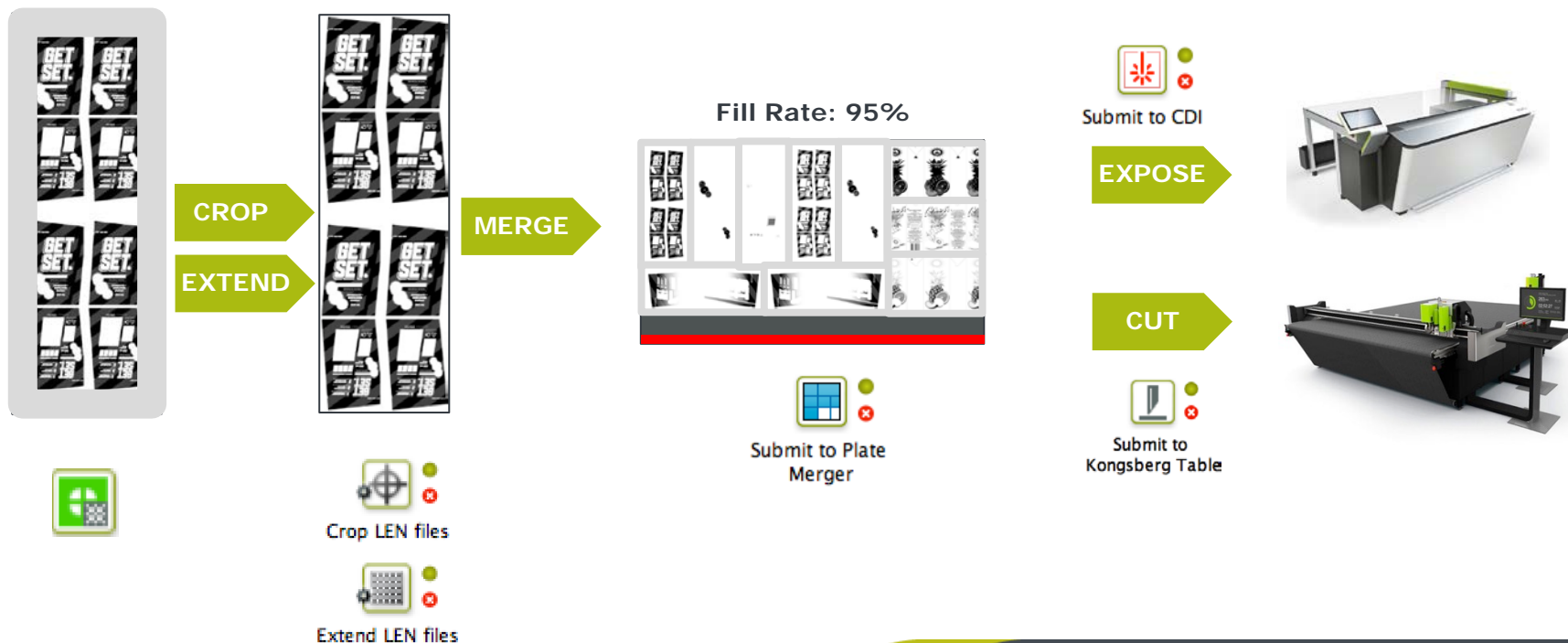
Possibility to switch between merged plate mode and job mode.



Device Automation for Flexo platemaking

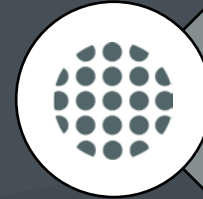
Requires v16.0.2

Automation in a Flexo workflow | Overview



Automated Flexo Platemaking| Overview

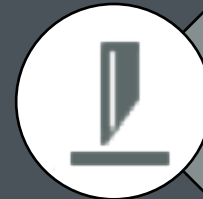
- No human interaction required to prepare the ripped files for exposure, leading to repeatable processes.
 - **Time saving:** no manual editing required.
 - **Error reduction:** Based on conditions, the correct values will always be applied.
- No human interaction required to merge separations on a CDI Plate.
 - **Less waste**
 - **No errors because of merging wrong combinations**
- Accurate cutting.
 - **Higher quality**
 - **Less errors**



LEN manipulation



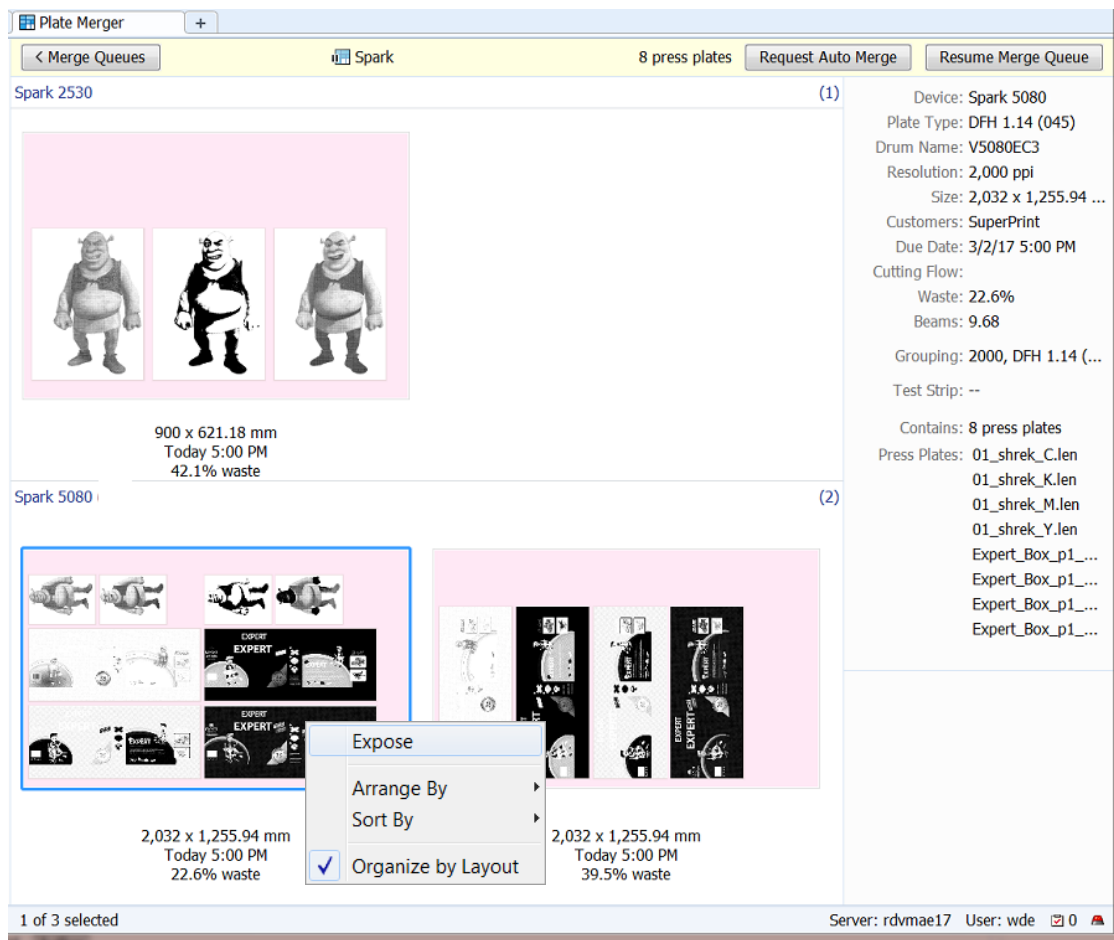
Auto Merging



Cutting workflow

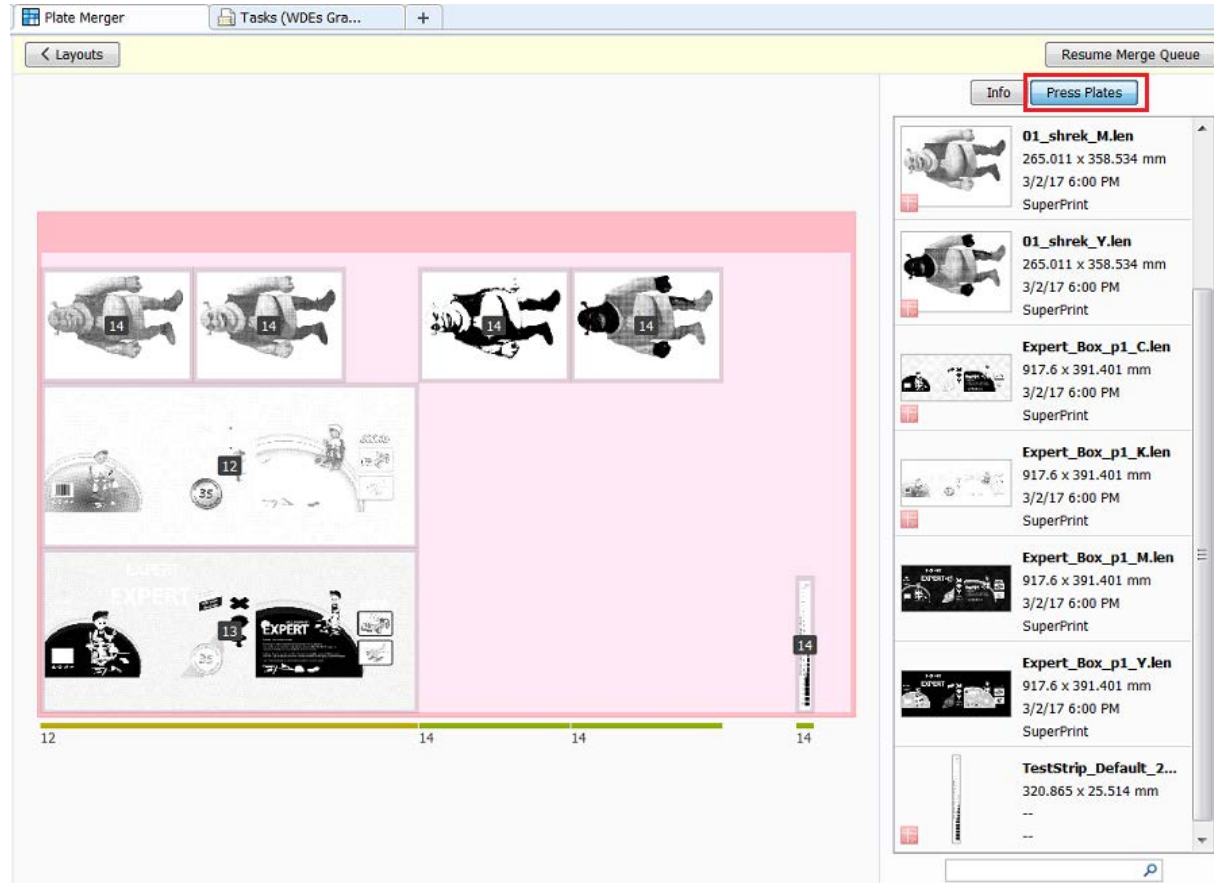
Viewing rejected Layout Proposals

- When the minimum fill percentage is not reached, many of the layout proposals that the Plate Merger makes are not good enough to become a Merged Plate that will be exposed.
- In many cases, you may want to see those rejected layout proposals. You can view and inspect them.
- You can select one and choose to 'Expose' it anyway.



Changing a Layout Proposal before Exposing it

- Double click a layout to zoom in and inspect it closer.
- Reposition Press Plates, manually or numerically.
- Resize the layout area, by crop & fit or numerically.
- See a pre-calculation of exposing beams per vertical lane.
- See the list of (currently placed) Press Plates. Drag & drop (back) onto the layout.
- 'Expose' when done making changes.

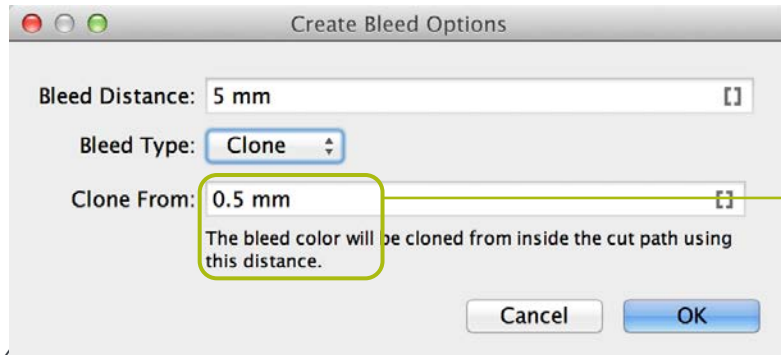


Other New functionality

Auto Create Bleed | New option



Automatic bleed creation based on cloning of pixels, could result in strange effects in case pixels (that should not influence the bleed) touched the border of the file.

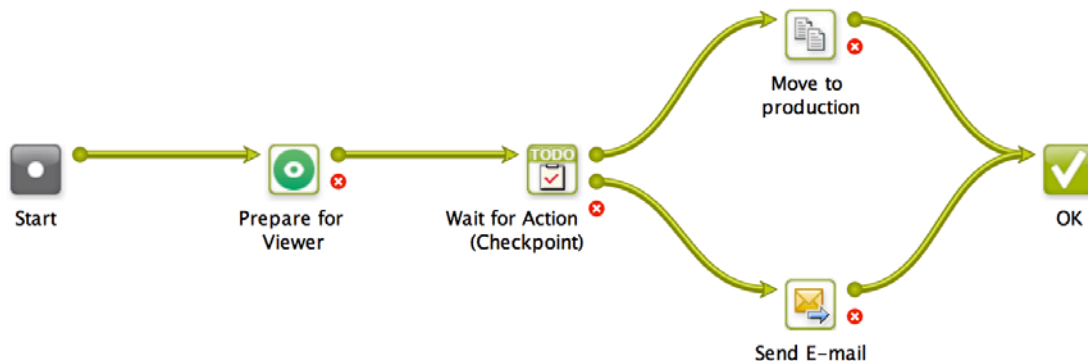


This new option ensures 100% of the jobs can be handled without a manual touch.

Moving prepared view data

Prepared view files are stored in a hidden folder on the server. Prior to Automation Engine 16, when moving an Artwork file, the link with the prepared data was broken.

View files are automatically copied along with the artwork file from now on.



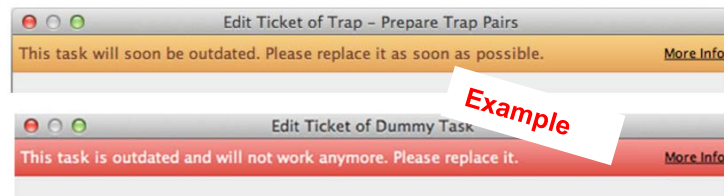
Other features

- ARD support in Gang Run.
 - No need to place ARD files in PDF files to run them through the gang run.
- Support for PitStop 13.2.
 - This enables “Preflight for Packaging” in Automation Engine.
- The Publish for WebCenter task now also publishes annotations.

(Soon) Outdated Tasks

Concept

- With the release of every major new version, some Automation Engine tasks become “**Soon Outdated**”. This means that those tasks can in a next major version become “**Outdated**” (no longer available).
- The Automation Engine Manual describes this concept in more detail and also lists these tasks. The manual also describes your alternative for each “soon outdated” task. This way, you have the time to switch to that new behavior before those tickets are no longer available.
 - Learn which tasks become “Soon Outdated” or “Outdated” in this version in this page of the manual, at the end of the chapter “Tasks and Workflow Controls”:
 - https://docs.esko.com/docs/en-us/automationengine/16/userguide/en-us/common/ae/concept/co_ae_thedeprecatedtasks.html
- Each ticket of such a task clearly shows you it's state and offers a direct link to the online user manual with more info.



ESKO*