What's new in Imaging Engine 14.1

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What's new in Imaging Engine 14.1 – Overview

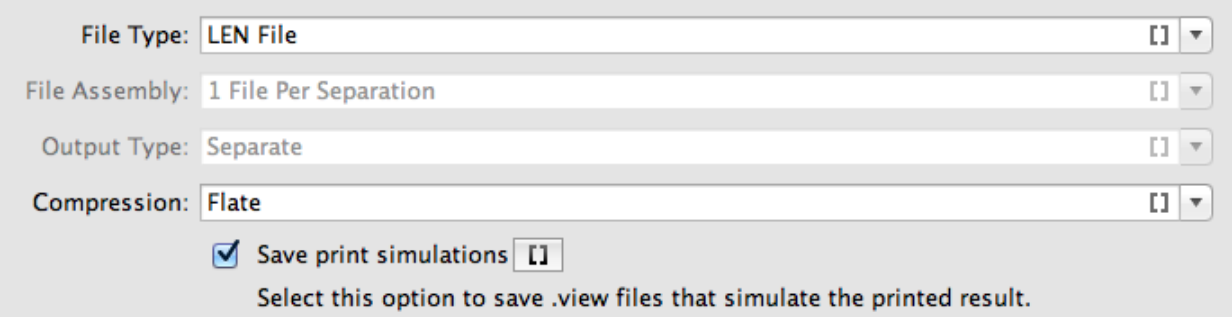
- View output for Image to Screened Separations (e.g. viewable LEN: support dots, perforation of microcells, groovy, concentric)
- Screening features
  - Seamless
  - Surface screening from Nexus (Platecell, Cell centred) (prerelease status)
  - Hybrid screening (Autoblend) from Nexus (prerelease status)
  - FM screening
- CIP3 support (Nexus features)
- Improved Screen Migration tool
- Object based screening and object based calibration from ArtPro 14.1
- Some minor things

View Output files

What's new in Imaging Engine 14.1

1. View output files

- View output for Image to Screened Separations
- To view screens with **Advanced screening effects** (see manual for an overview)
- Problem now: measuring gives not what you will have in print
  - In output tab, toggle **'save print simulations'** to create 'viewable outputfile'



What's new in Imaging Engine 14.1

1. View output files

- Advanced Screening Effects?

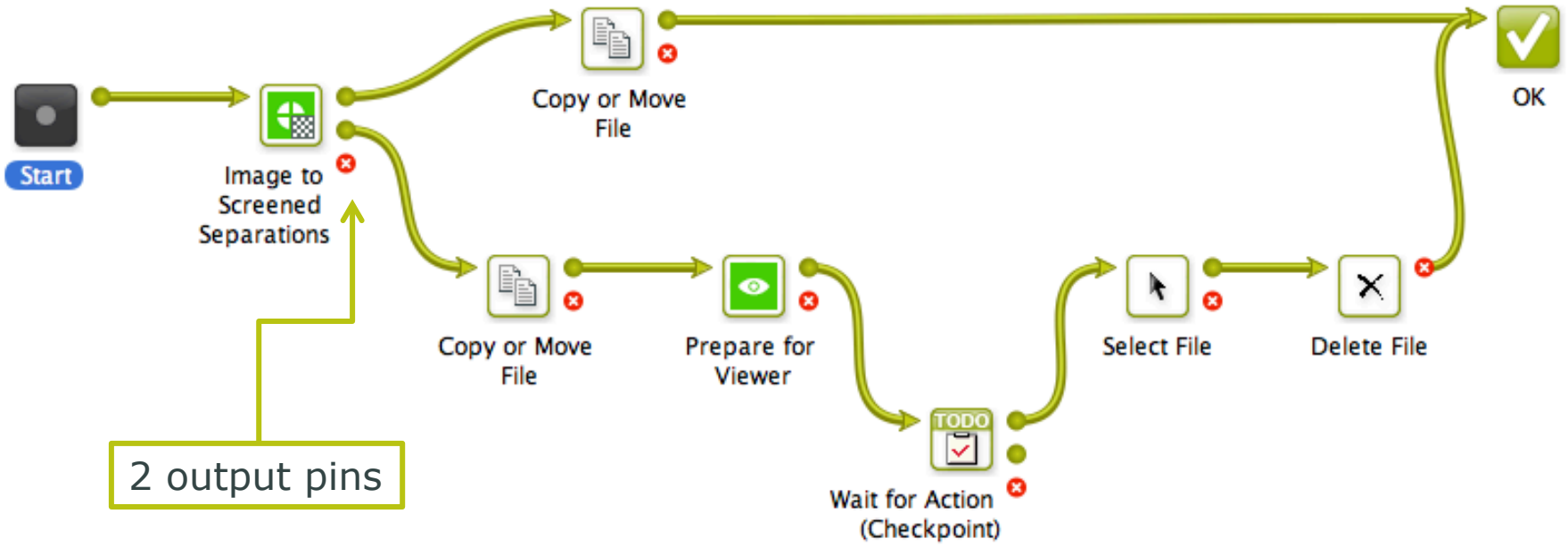
  Use case: viewable LEN with HD screening

  e.g. support dots, perforation of microcells, but also for groovy, concentric

- How? job is RIPed in one step but with separate outputs:
  - One with and one without special effect
  - Exactly the same screens and other RIPing parameters will be used, complete integrity between view file and plate file

What's new in Imaging Engine 14.1

1. View output files – example workflow



What's new in Imaging Engine 14.1

1. View output files continued

- view files are smaller then LEN
- you have 2 pins on output of rip ticket
- also available for Tiff and PDF
- no xmp info about view files

What's new in Imaging Engine 14.1

1. View output files continued

- Document available that explains how to enable view file support in Bitmap Viewer – only editing of the ini file is needed
  or check this KB:
  KB160830839: How to enable View File support in Bitmap Viewer

- In Bitmap Viewer: open LEN, then automatically the view files will be opened (or vice versa) in compare mode (if in same folder)

- Opening in AE viewer: manually open both files in compare mode after 'prepare for viewing'

Screening features

Seamless

Autoblend

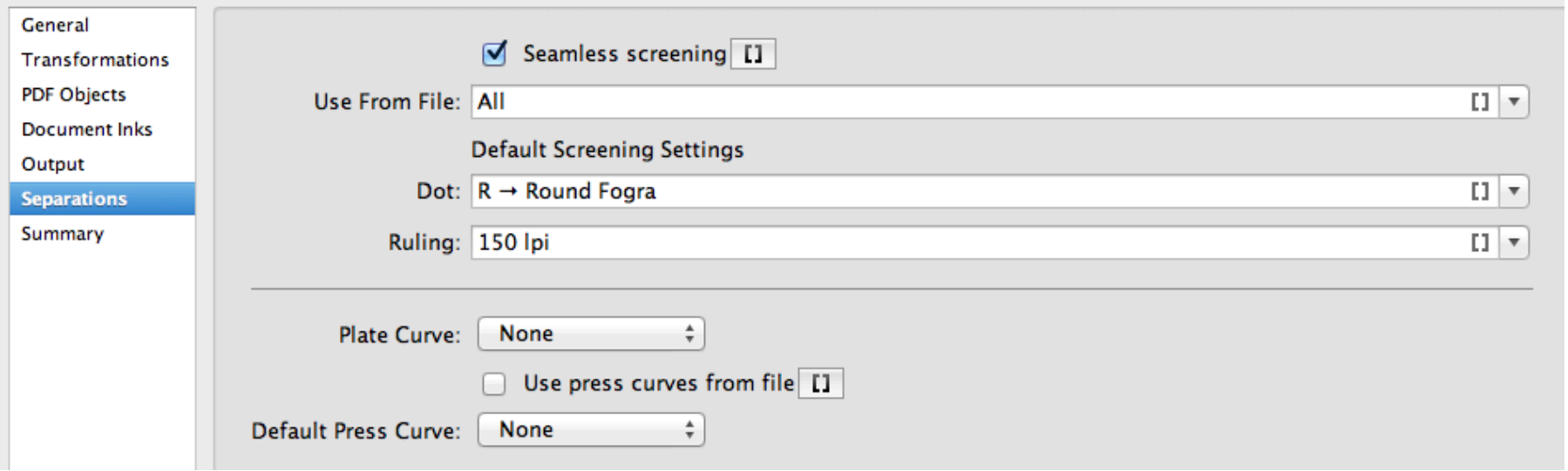
Platecell – Patterncell

FM screening

What's new in Imaging Engine 14.1

2. Screening features: Seamless

- similar to Flexrip (dynamic solution, not the static seamless)
- option in ticket: seamless screening



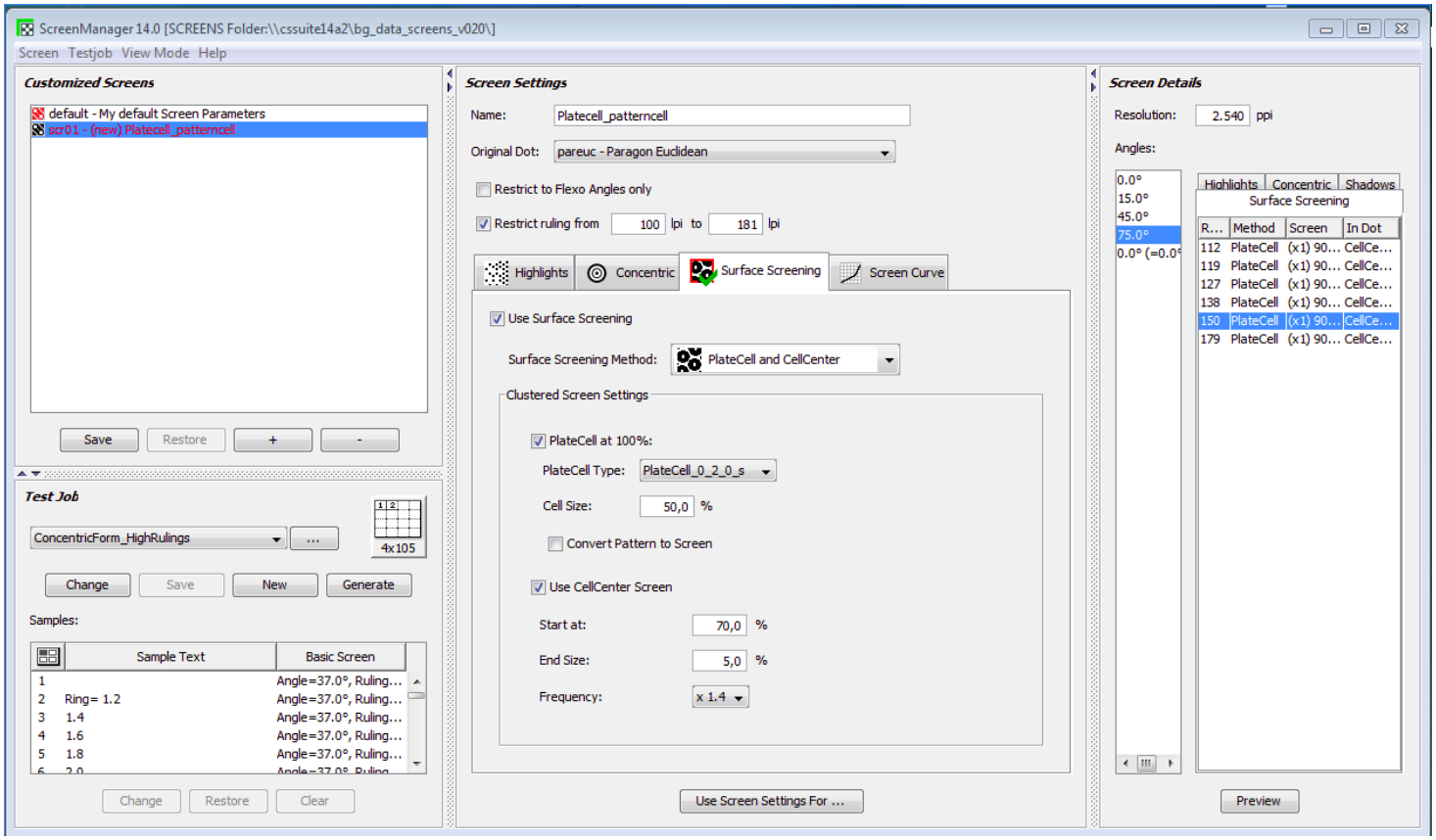
What's new in Imaging Engine 14.1

2. Screening features: Seamless

- some screens are greyed out: *'not available for seamless screening'*
- for Tiff and LEN - all resolutions
- ruling/angle can be little different from requested one
- xmp: no indication that it is seamless, but you can see in the ruling

What's new in Imaging Engine 14.1

2. Prerelease of screening features: surface screening from Nexus Platecell, Cell centred



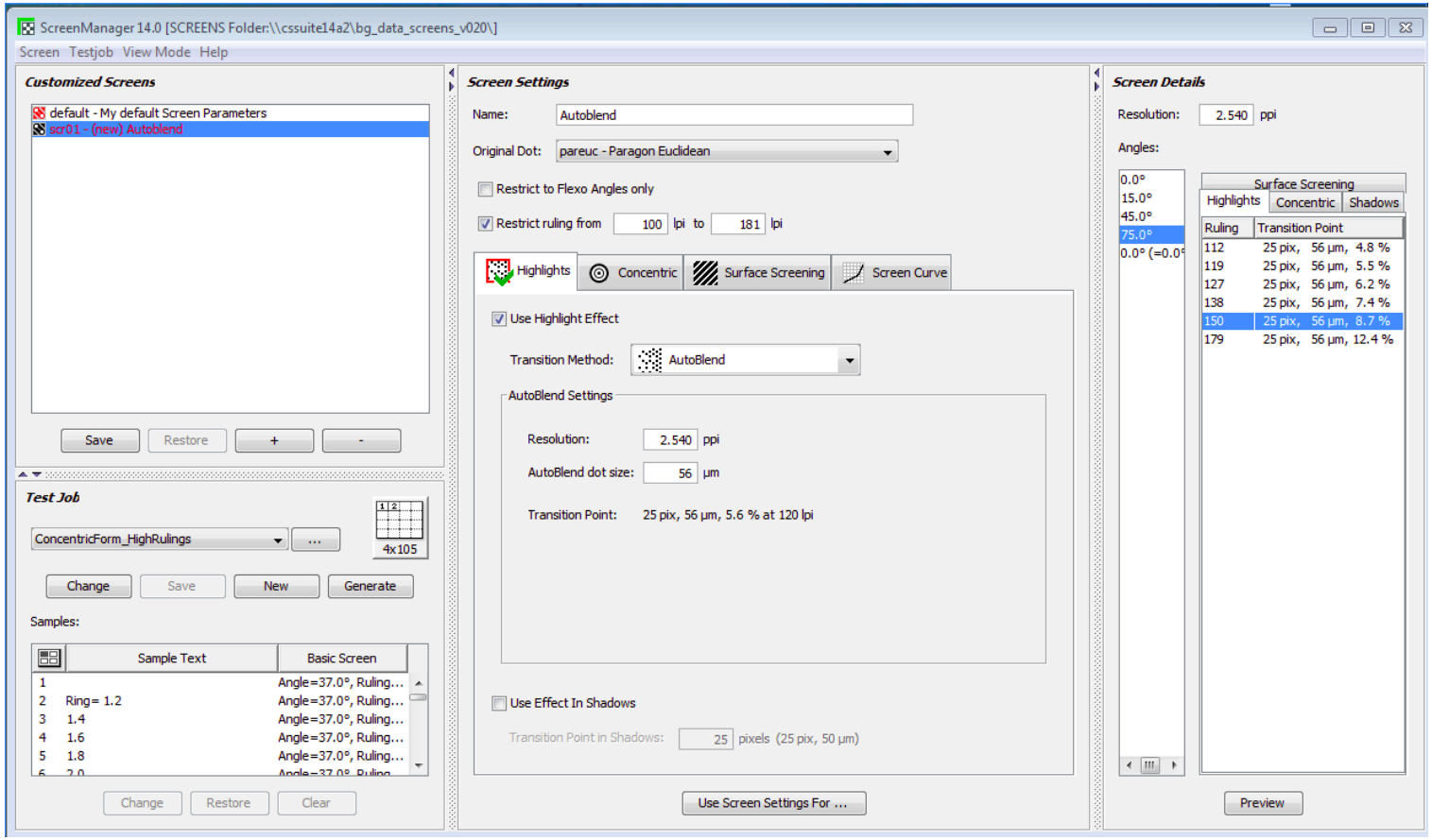
What's new in Imaging Engine 14.1

2. Prerelease of screening features: surface screening from Nexus Platecell, Patterncell

- Platecell and Cell centred are special Surface Screening types from Nexus (like you have Groovy in FlexRip)
- Now customers get Screenmanager to make these screens – see tab Surface screening
- As this is prelease status, contact your Esko account manager if you are interested in testing this feature

What's new in Imaging Engine 14.1

2. Prerelease screening features: Hybrid screening from Nexus – Autoblend



What's new in Imaging Engine 14.1

2. Prerelease screening features: Hybrid screening from Nexus - Autoblend

- Autoblend is a hybrid screening for Highlight Effects from Nexus (similar to Perfect Highlights from FlexRip)
- Now customers get Screenmanager to make this screen – see tab Highlight Effects
- As this is prelease status, contact your Esko account manager if you are interested in testing this feature

- Document available on box (Suite 14 Assembly 5 – Imaging Engine 14.1 – 'Autoblend Screening in ScreenManager and Imaging Engine'):

  https://esko.box.com/prereleasedocumentation

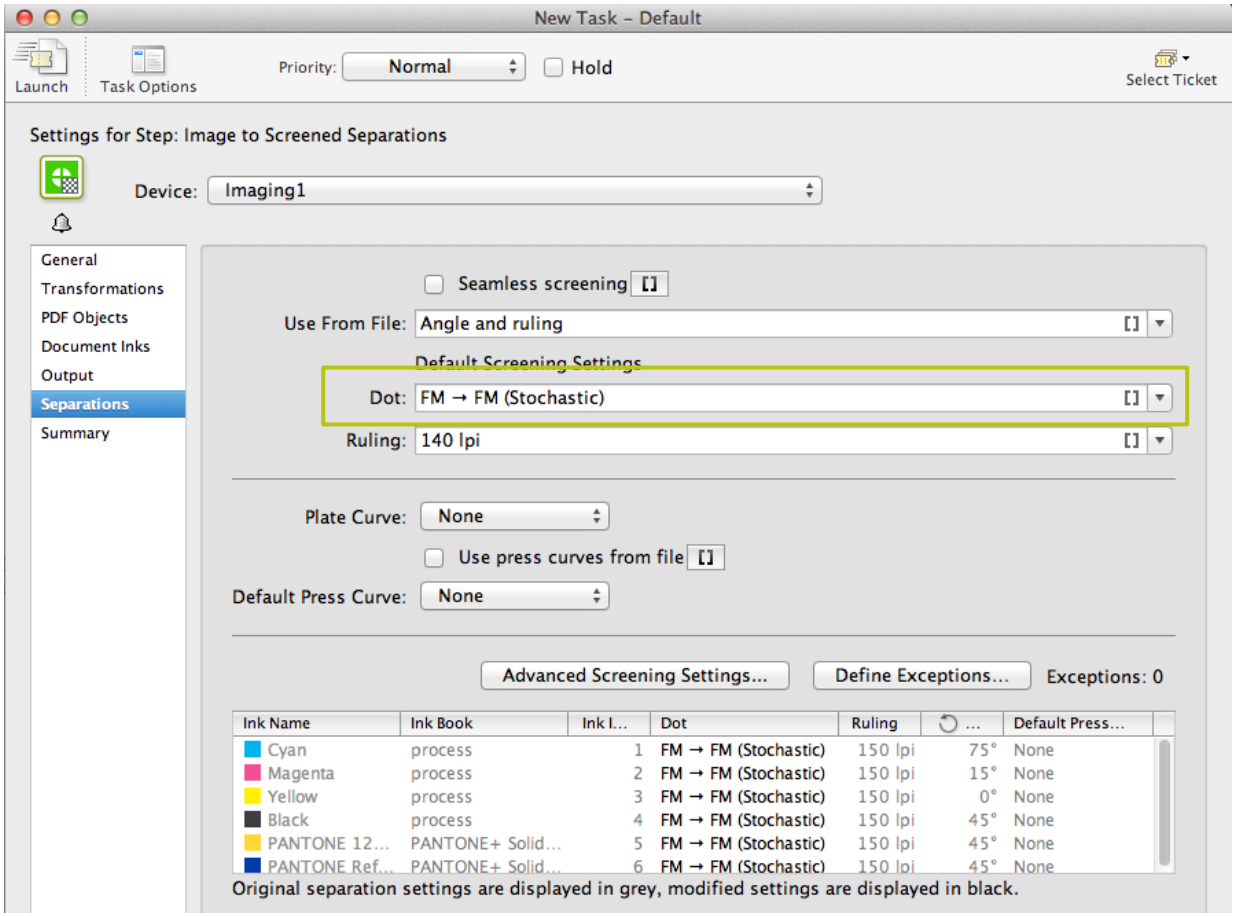
What's new in Imaging Engine 14.1

3. FM Screening (new FM screening, different from FM in Nexus)

- In Nexus rip: option to rip with FM screening (stochastic - dynamically generating FM)
- in Imaging Engine Ticket: replaced by FM dot (like Monet dot)
  - choose FM as dot shape in the Separations tab, and choose ruling that corresponds with FM dot size
- needs the Paragon license
- highest ruling is the 1 pixel dot
- quality is less noisy/more optimal then in Nexus
- interface: you still have to choose ruling/dot (you have to check a lookup table) - which is different with Nexus (disadvantage, but might be planned later)

What's new in Imaging Engine 14.1

3. FM Screening from Nexus



Choose as dotshape 'FM'

CIP3

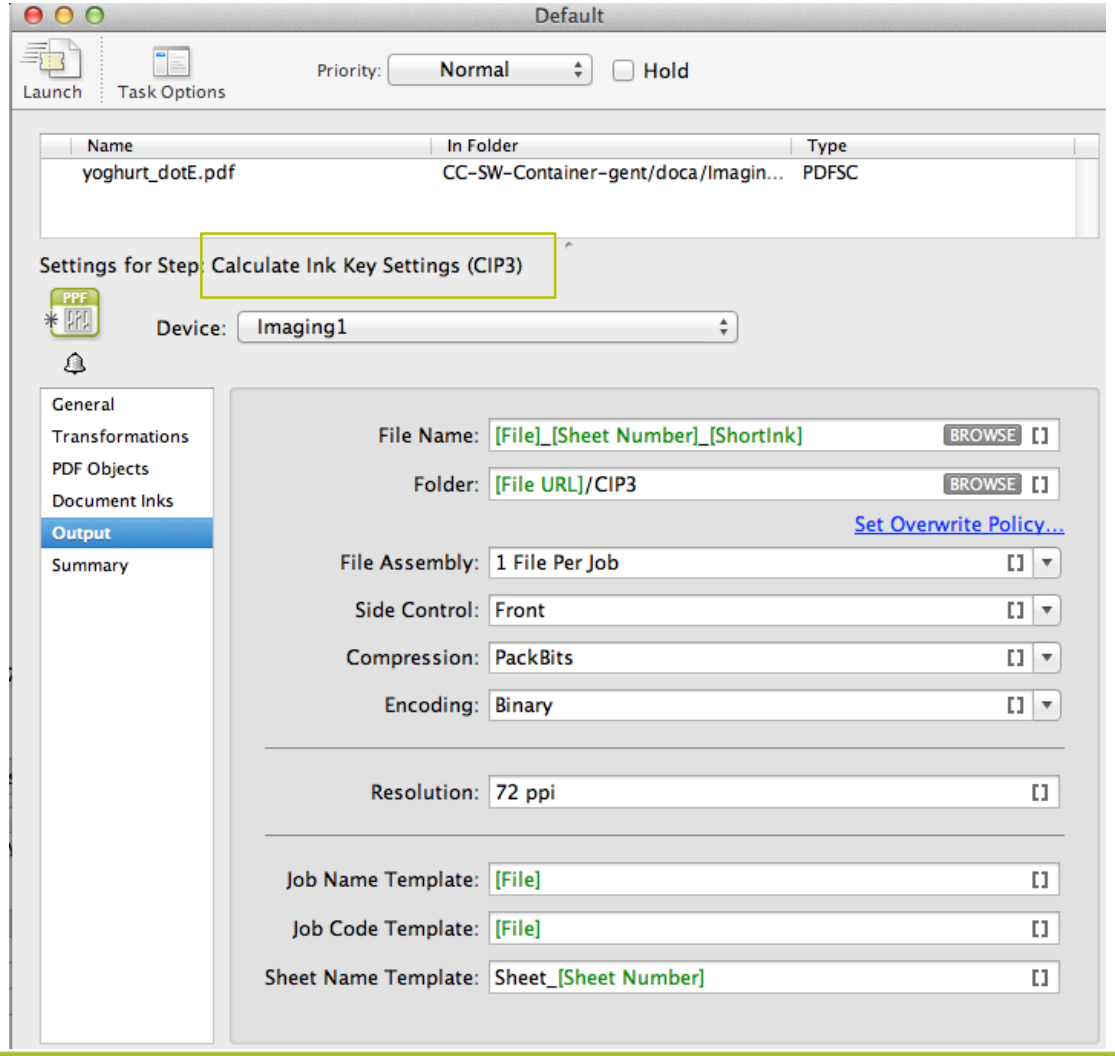
What's new in Imaging Engine 14.1

3. CIP3

- For now only covering Nexus features
  - Nexus CIP3 is only mentioning the papersize info
- Separate standalone task generating lowres tiff, wrapped in CIP3 file (ppf file)
  - "Calculate Ink Key Settings (CIP3)"
  - Use independent from your existing Image to Screened/Unscreened ticket (see next slides) – **no ripping in advance is needed!**
- CIP4 not supported yet

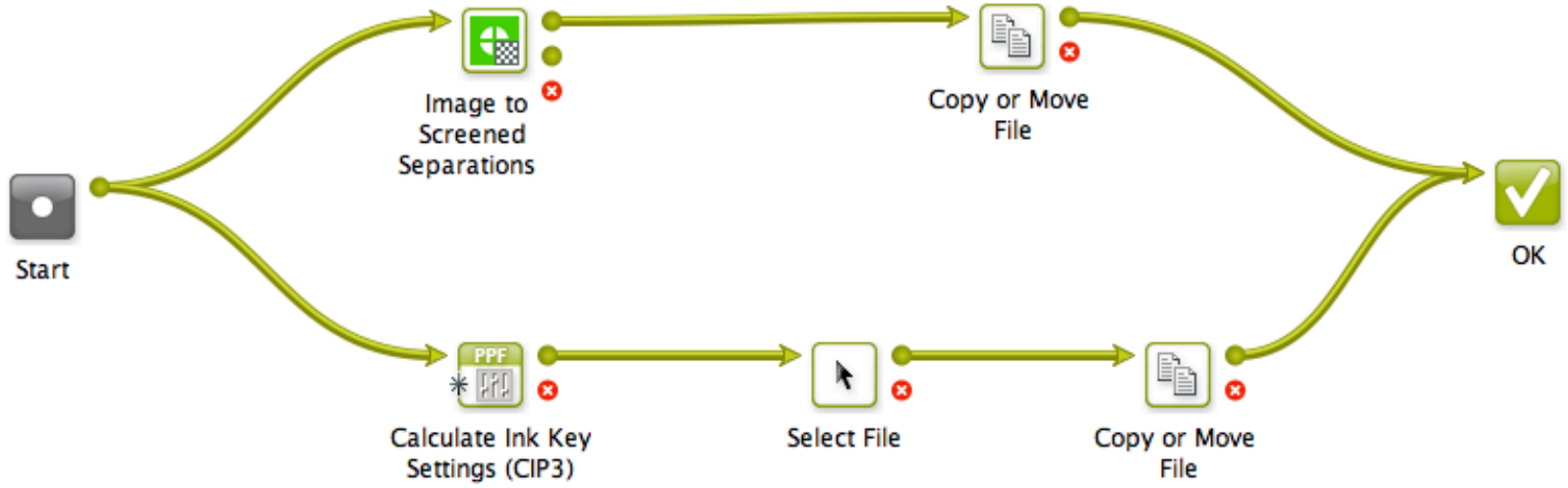
What's new in Imaging Engine 14.1

3. CIP3



What's new in Imaging Engine 14.1

3. CIP3 – example workflow



What's new in Imaging Engine 14.1

3. CIP3

- Flexrip Cipress features (inkkeys) is planned for a future version, these advanced features include:
  - plate and paper size info + positioning towards each other (centered or not)
  - That's why we recommend Flexrip CIP3 customers to carefully consider the current limitations and if needed wait to migrate

Improved Screen Migration tool

What's new in Imaging Engine 14.1

4. Improved Screen Migration Tool

This tool can be used to migrate HD Flexo screens and/or Customized Screens from Screen Manager.

See document 'Screen Migration Tool 14.1 Release Notes.pdf'

- The tool has now a standalone version that is installed together with HDFlexo 14.1 and/or Screenmanager 14.1.

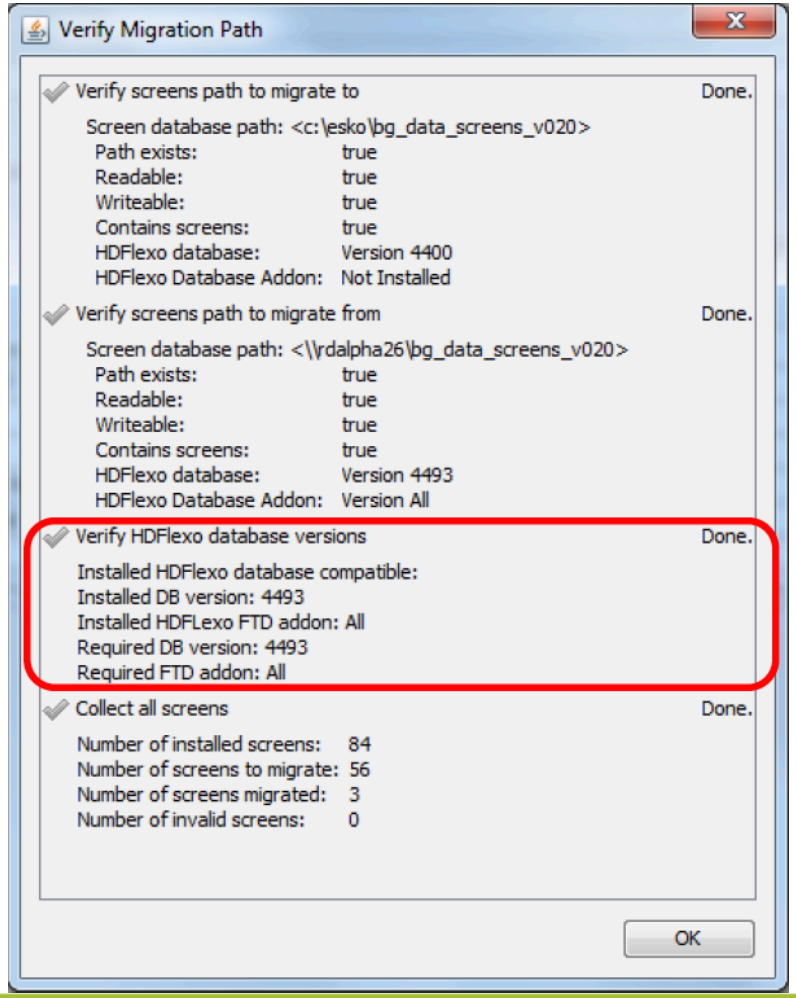
What's new in Imaging Engine 14.1

4. Improved Screen Migration Tool

See document on box 'Screen Migration Tool 14.1 Release Notes.pdf' with detailed information.

Instead of doing some manual steps, the tool will now do a verification. Checks that are done:

1. The 'migrate from' and 'migrate to' **paths** are checked

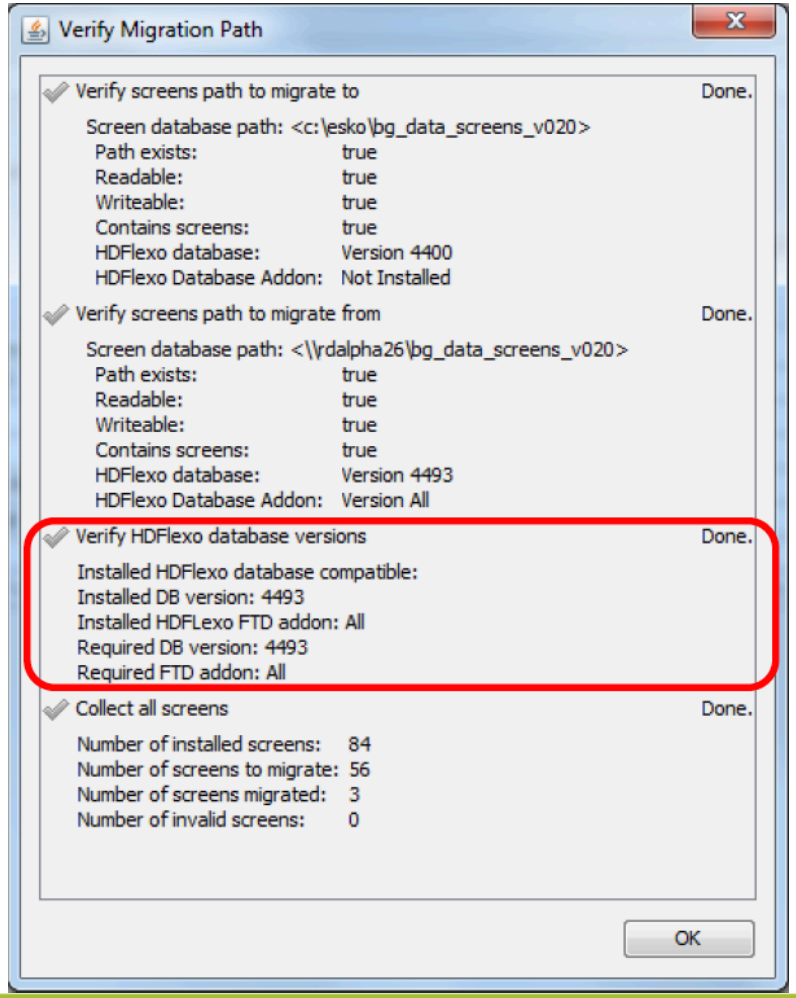


What's new in Imaging Engine 14.1

4. Improved Screen Migration Tool

Checks that are done:

2. The installed **HDFlexo database** and/or **FTD add-on** versions are determined.
3. If the HDFlexo database versions are not **compatible** or if an HDFlexo FTD add-on version is required, a user will have the option to update the HDFlexo database.
4. All screens from the migration path and from the active screens path are collected. Each **screen** is verified.

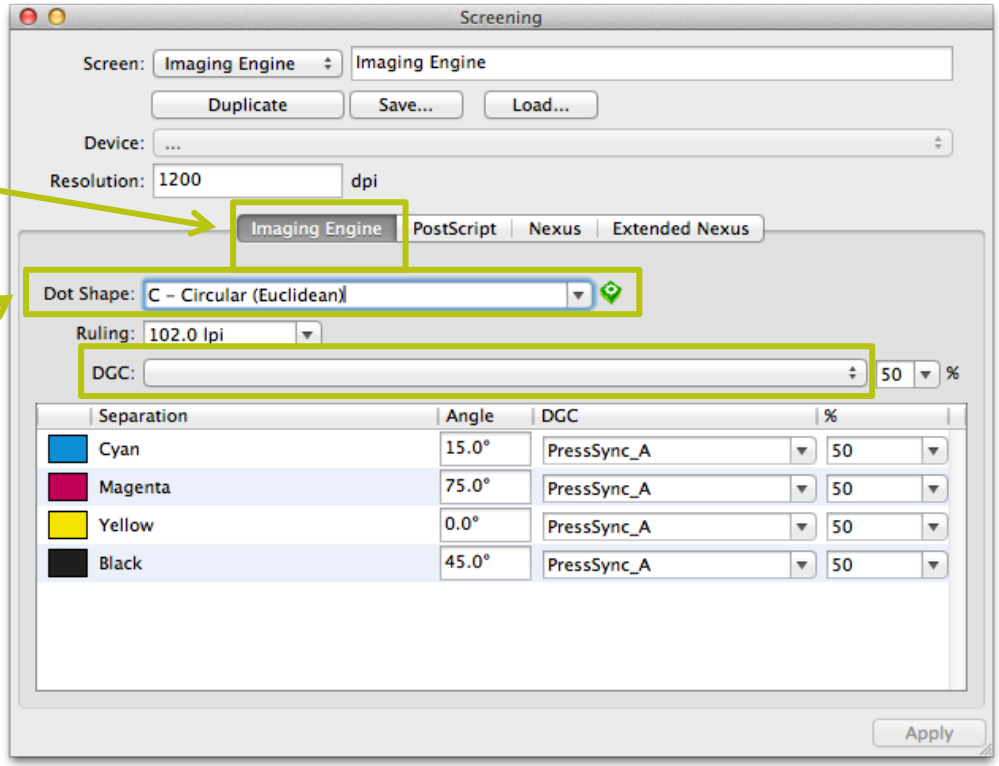


Object based screening
Object based calibration
From ArtPro 14.1

What's new in Imaging Engine 14.1

5. Object based screening

- In ArtPro 14.1, there will be an extra tab 'Imaging Engine screening'
  - 'Nexus Extended Screening' will be taken over
- Dotshapes are taken over from the AE server



What's new in Imaging Engine 14.1

5. Object based screening – 3 options:

1. **Start from a Nexus Extended screen set** (or from a PS (Esko) screen set)
   While that screen set is selected, switch to the Imaging Engine tab
   --> all settings that are supported by Imaging Engine will be automatically taken over:
   so ruling, angles, … Dot shape only if it is supported by Imaging Engine.

2. **Start fresh - without Automation Engine connection**
   (no server information in Preferences > Servers > Automation Engine).
   Just enter your own dot shape etc or select it from the list (you can also start typing, it will auto-fill if it finds a match in the list). This is a default list provided by ArtPro; pretty much the same list as the Esko screens provided on the PS tab.

3. **Start fresh - with Automation Engine connection**
   (server information in Preferences > Servers > Automation Engine, with green status).
   Now you can still enter your own dot shape, but even easier is to select it from the list (you can also start typing, it will auto-fill if it finds a match in the list). In this case the list is the list of dot shapes available on the Automation Engine.
   You can notice that you are looking at the AE list by the fact that a **green icon** appears next to the dot shapes combo box.

What's new in Imaging Engine 14.1

5. Object based Calibration

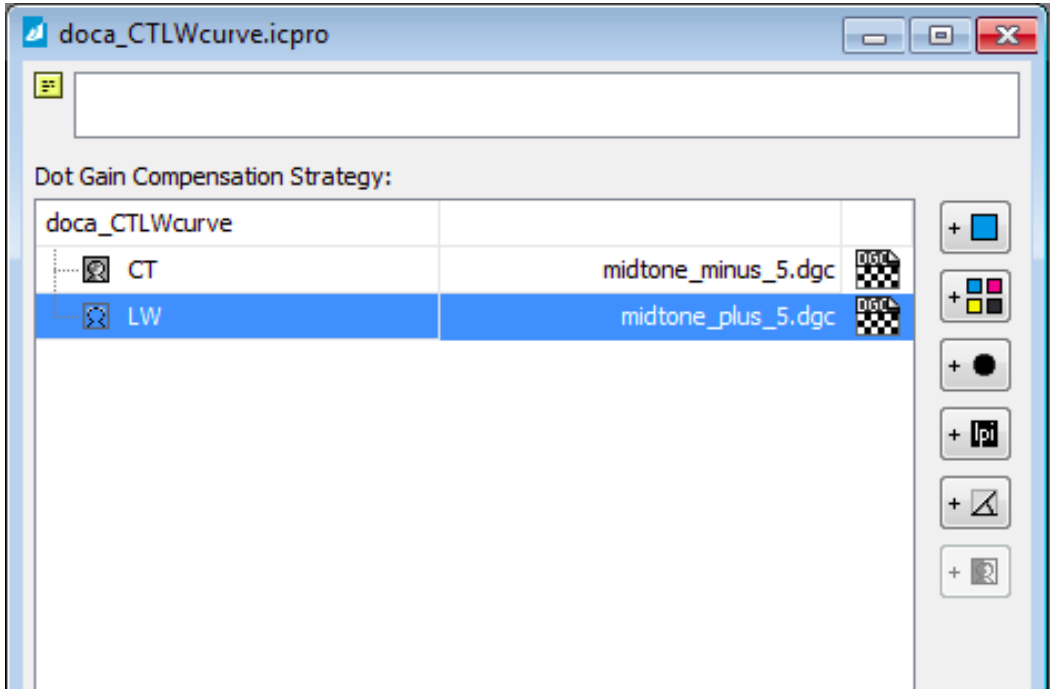
- Curve can be saved in PDF – option in ticket to use this curve
  - 'use press curves from file'
- Artpro 14.1 is able to include the curve (see screenshot on slide 28)

Minor things

What's new in Imaging Engine 14.1

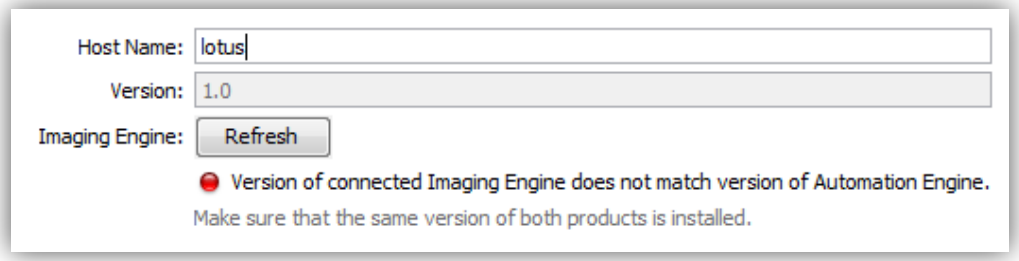
Minor things

- CT/LW calibration is now supported (from icpro)
  - CT: all images, vignettes
  - icpro with different curves for CT or LW is selected and executed

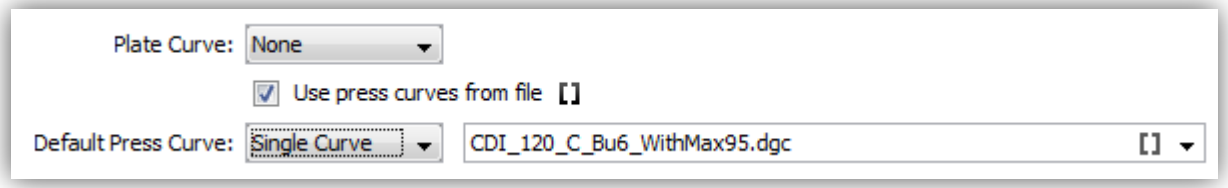


What's new in Imaging Engine 14.1

- Automation Engine & Imaging Engine must have the same version.
  When configuring an Imaging Engine device, feedback is given on the version of the Imaging Engine. A connection can only be made if the version of the Imaging Engine matches the version of Automation Engine.



- Press curves from file can be used / ignored in the "Image to Screened Separations" task.



What's new in Imaging Engine 14.1

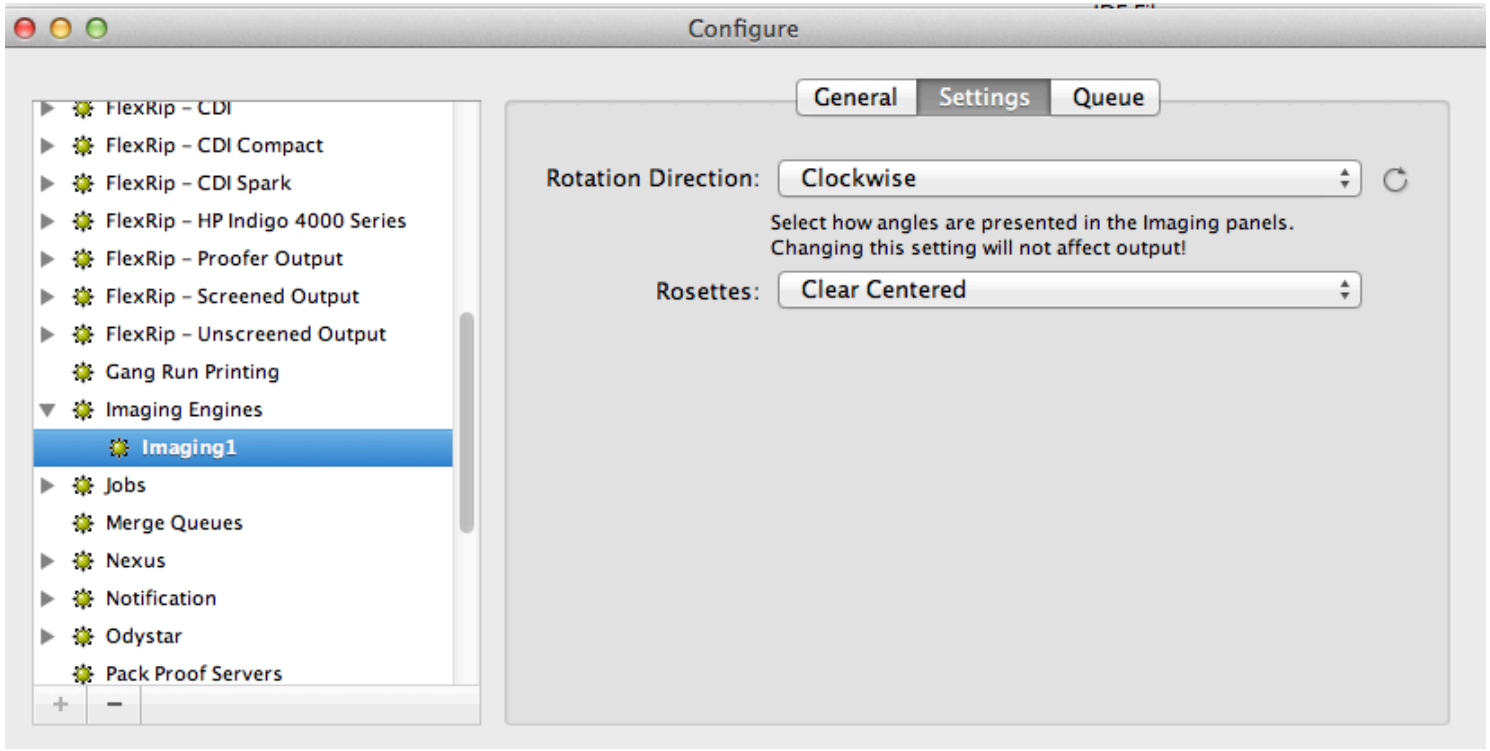
Minor things

- APPE 3.5
- Version IE included in Configure
  - Version field added to be sure AE and IE have same version (see configure)
  - log file is also mentioning version and build + portnumber
  - if you use a different version of IE - message 'IE does not match version of AE'
- 'Pixelmachine' is now called 'Imaging Engine' in Installed Software
- There is now a 'Select Server' in the Ripserver program

What's new in Imaging Engine 14.1

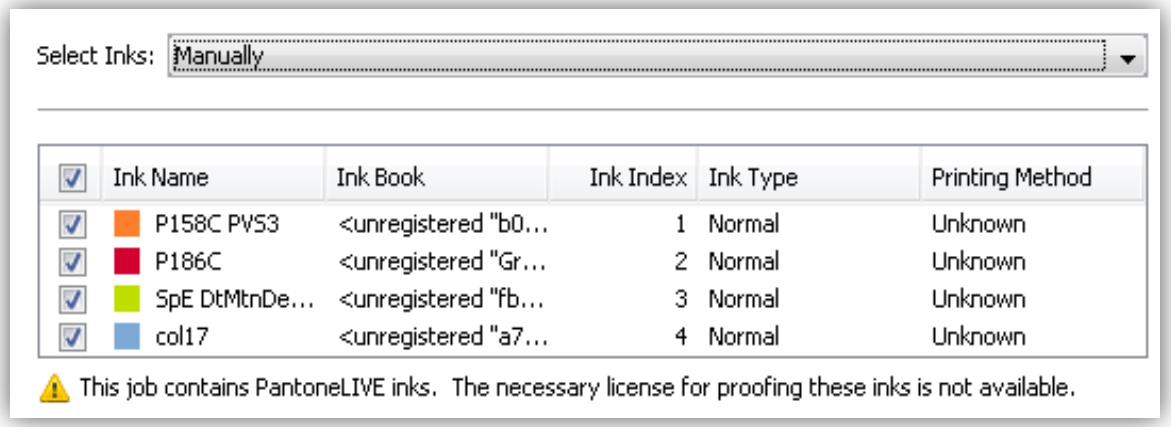
Minor things

- Configure – disclaimer has been added about CW/CCW setting



Minor changes for Proof ticket in 14.1

- Support for CMYKOGV PDF generation
  - Color Engine Pilot license (eg from Equinox or Pack Proof) is required in order to generate CMYKOGV profiles
- Support for color strategies containing ‘Extra Output Inks’ when outputting to PDF.
- PantoneLIVE support
  If there is no PantoneLIVE license and the job contains PantoneLIVE inks, a warning will be shown in the separations tab and it will not be possible to launch the proofing ticket.



Minor changes for Proof ticket in 14.1

- Handling unregistered inks

  A new toggle has been added to the separations tab of both proofing tickets. This allows the user to end the task with an error if the input job contains unregistered inks. This is to prevent that inaccurate colors would be generated since color management on unregistered inks is not as accurate as on registered inks.
  If this toggle is not checked, the behavior is the same as before, meaning that the task will end in a warning mentioning there were unregistered inks in the job.

What is **not** in 14.1

What is not in Imaging Engine 14.1 and planned for later

- AntiAlias support for unscreened output (will be in 14.1.1, release Jan 2016)
- CIP3 with FlexRip features:
  - Calculate Ink key settings: positioning and transformation
  - Calculate Ink key settings: add fixed parameters
- Ink selection by public parameters
- Merging and splitting of inks
- Speed up opening Screened ticket (will be in 14.1.1 – hotfix 1405012 is available for 14.1)
- Resampling on all channel Images (now only working for 1-3 or 4 channel images, typically DeviceGray, RGB or CMYK images) - (will be in 14.1.1)
- Screen registration

What is not in Imaging Engine 14.1 and planned for later

- XPS drivers (to send to Proofers)
  - XPS for content proofing - some colormanagement but not color accurate
  - same as current PDF/TIF proof output
  - What is XPS:
    "The XPSDrv printer driver extends Microsoft's GDI-based, version 3 printer driver architecture to support consuming XML Paper Specification (XPS) documents. With an XPSDrv printer driver, the XPS Document format is used as a spool file format and as a document file format."

What is not in Imaging Engine 14.1 and planned for later

- Dynacell screening (unusual angles and screen rulings to be used e.g. in silk screen printing)
- Highline XM
- ArtPro Powerlock screening

A detailed list of features and screens available or planned can be found in these KB articles (go to http://esko.com/support):

- **KB97098690: Imaging Engine - What are the features available in v14.0 or 14.1**
- **KB93521675: Imaging Engine - What are the changes in the screening technologies when migrating from Nexus RIP to Imaging Engine**
- **KB100696343: Imaging Engine - What are the changes in the Screening technologies when migrating from FlexRip to Imaging Engine**