PitStop 2017
New features and functionality

With PitStop 13, Enfocus launched a new preflight concept called 'Restrictions'. This was created to meet the challenges of the increasingly more complex PDF files that we see being created in the market.
Restrictions allow customers to limit Preflight checks and fixes to specific parts of a PDF file. Restrictions can be based on: Pages, PDF layers, Colors, Separations, specific content such as text, images or vector graphics, or even areas of a page. Restrictions are based on Action List technology and use Select Actions, so all sorts of selection combinations are possible.

With PitStop 13 update 2 we then released some unique preflight functionality, that being the ability to 'restrict' a preflight check or fix to within an irregular shape such as a cutter guide or structural design element. This means less false errors and more accurate preflight as only elements that matter are checked or fixed.

The ability to make a restriction within an irregular shape was enabled by a new technology call the 'PDF Geomapper'. This technology enables PitStop to select PDF elements in new ways, and allows us to create unique Preflight checks and fixes that make PitStop the most powerful, and most technically advanced preflight solution available today.

With PitStop 2017, we release some additional unique functionality that uses this new technology, plus a host of other additional features that will help our customers face the day-to-day challenges of PDF production.

Select Concealed objects Action
This new Select Action allows you to select elements that are present within a PDF file, but are not needed to render or print the PDF. Typically these objects are the result of a lazy PDF creator, or can be caused where a PDF has been placed and cropped within a page layout application such as Adobe Indesign.
Typically in other Preflight solutions, including earlier versions of PitStop, these hidden or irrelevant objects are included within a preflight check, so can produce false hits. They can also increase file size or un-necessarily make the file more complex which can cause problems when outputting the file.
With PitStop 2017 you now have the option to ignore, or remove these un-needed elements, and we have provided some default Action Lists to help with this.
You can see screenshots of the functionality below, and will note that there are options regarding the use of layers within PDF. This Action can be used in conjunction with additional Select Actions using the normal 'AND, OR, NOT' operators.
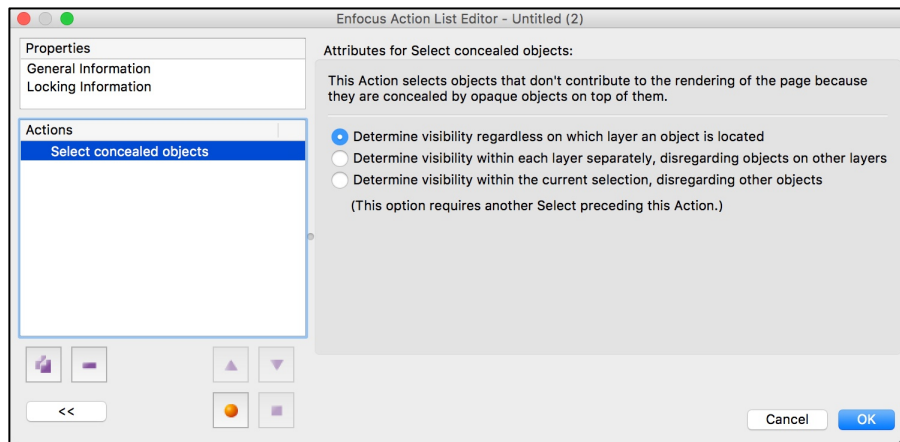
Select Visible objects Action

This Action selects only objects are are visible in the PDF. There is a default Restriction Action List created using this Action, that can be used in conjunction with a Preflight Profile to check only the elements needed to render the file, and ignore the rest.
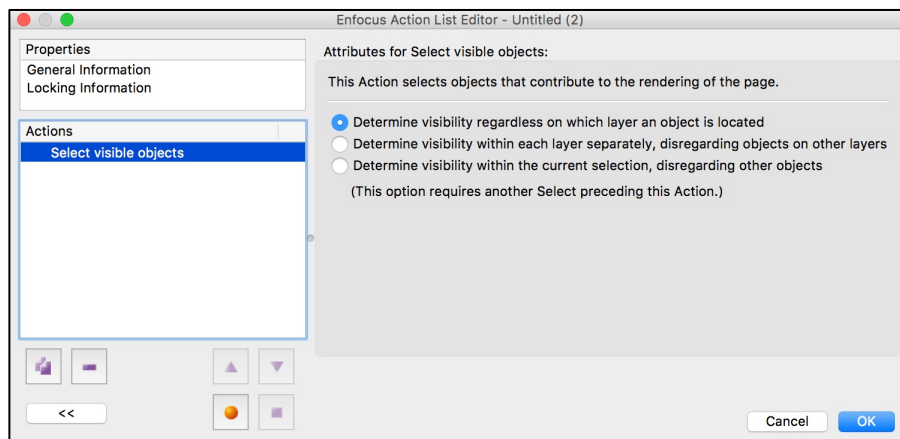

Select Overlapping Objects Action

Another new technology created by the Geomapper project.

Other preflight solutions check only the attributes of a single object. They are not able to take into account underlying or overlapping objects when carrying out Preflight checks. With PitStop 2017 we take the first steps in this direction, enabling you to select PDF objects based on their relationship with other PDF objects they interact with. This opens up a whole new range of possibilities for PDF Preflight checks and fixes.

Within this version we ship with some default Action Lists based on this technology. The first Action List is to check if all images have an overlapping varnish separation, and the other two check for legibility issues of Black text that is sitting on a dark background, or White text that is sitting on a light background. These three checks can be modified and adjusted, so you can play with them and create your own checks and fixes based on your own requirements.
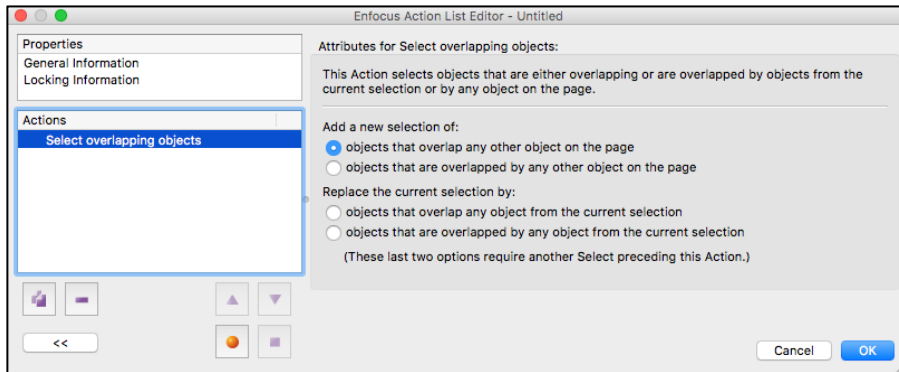
New interface functionality in the Enfocus Inspector.

The Enfocus Inspector gains a new tab specifically for working with transparency, and some new functionality and options as well.

As you can see from the screenshots below, you now have the ability to select or toggle through Page and Transparency groups and also modify and correct the attributes of the groups directly within PitStop.
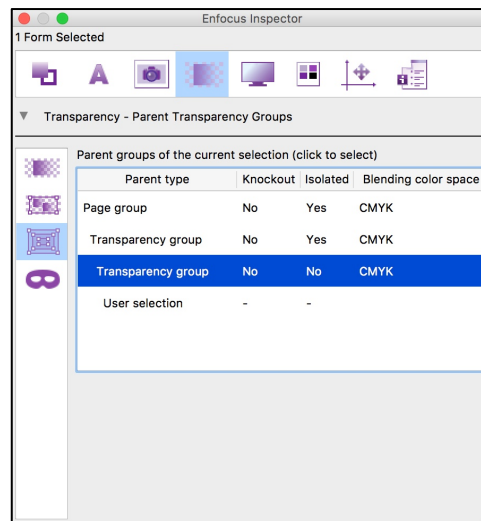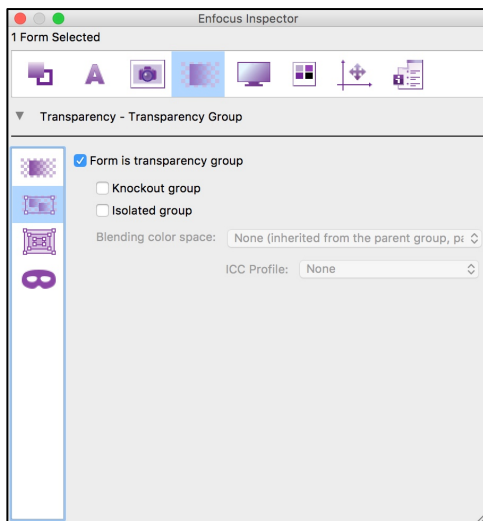
In addition there is also a new option to give you information about masks used within a PDF. Once a mask or the form containing a mask is selected, you can see information about the type of mask. You also have several new mask viewing modes, where you can visualize the mask in different ways. This does not affect the actual PDF itself, and is purely for diagnosis and analysis of the file to better understand its construction.
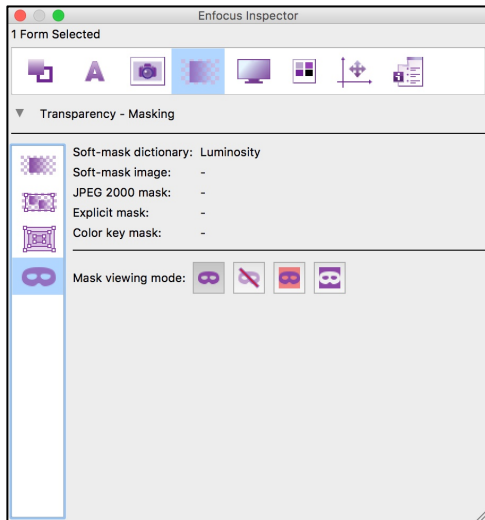
**New layers category within the Preflight report**

Layers in PDF files or Optional Content Groups (OCG's) to give them their correct name, are increasingly popular within PDF files.

To help users, we have added an additional chapter in the Preflight report that gives information about the layers within a PDF and their properties.

This report also includes support for the upcoming ISO 19593-1 Processing Steps specification, which is based on metadata within PDF layers (OCG's).

This new option can be turned on and off within the Preflight Profile configuration. The default setting is 'on'.
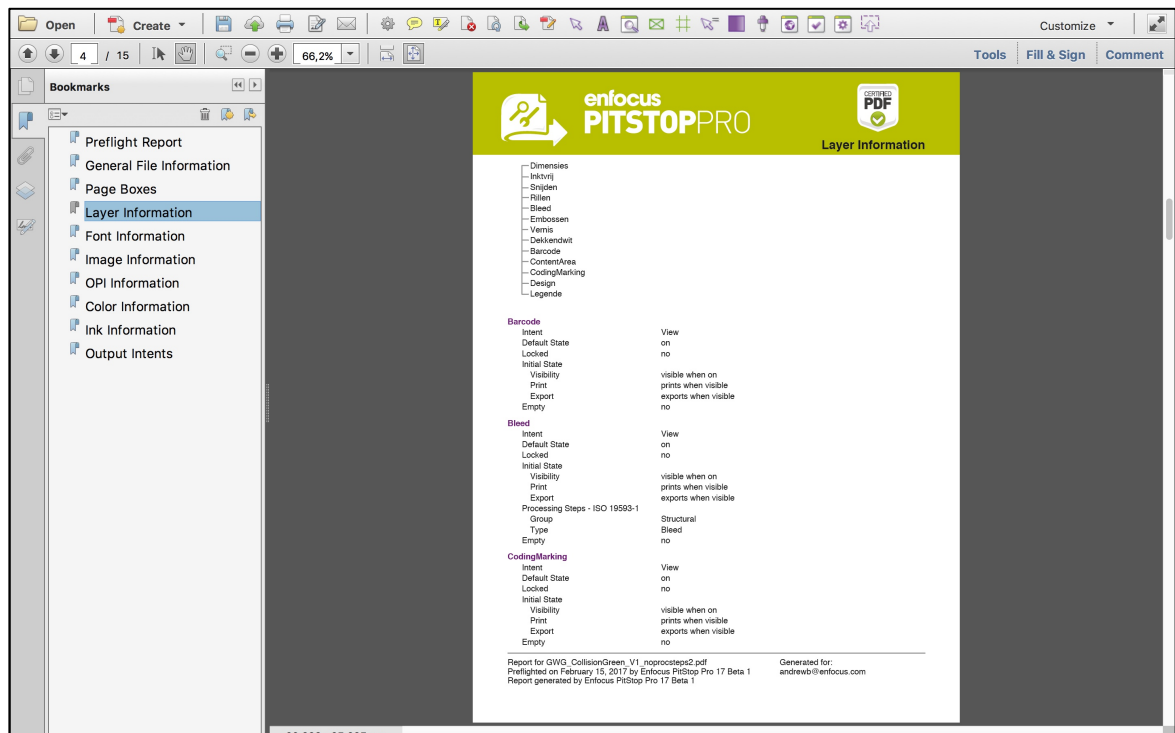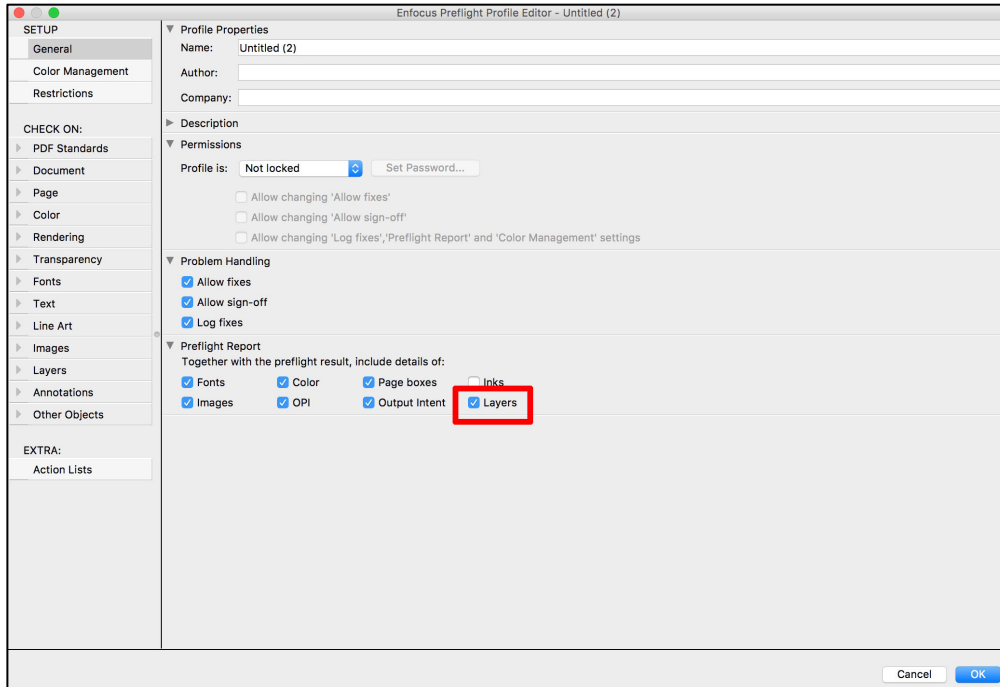
Log selection Action now reports on the presence, or absence of layers based on their name
Another small improvement regarding layers, is that the 'Log Selection' Action can now report if named layers are present, or absent in a PDF. This was not possible before. We add a default Action List with this functionality to this version, but it will need to be configured to the name(s) of the particular layers you wish to check for.

Ink coverage check to ignore named separations via Restrictions
The ink coverage check within PitStop can now ignore named separations.
This now means that when you are checking for ink coverage issues, you can chose to ignore technical inks, and additional special finishes such as varnishes or white separations. There is no specific interface for this functionality, as it's incorporated within the standard restrictions interface that already exists since PitStop 13.
All you have to do is simply create a Restriction to select or ignore specific separations and apply it to the ink coverage check.

Rectangles can created to the size of PDF Page Boxes
Adding Rectangles is something that a lot of users do within PitStop using the 'Add object' Action. One of the shortcomings of this functionality was that it worked to a fixed size or a variable, whereas often there was a need to generate a rectangle based on a PDF page box. This is now possible and in fact you can mix page box values, static values, and variables to get the result you desire.
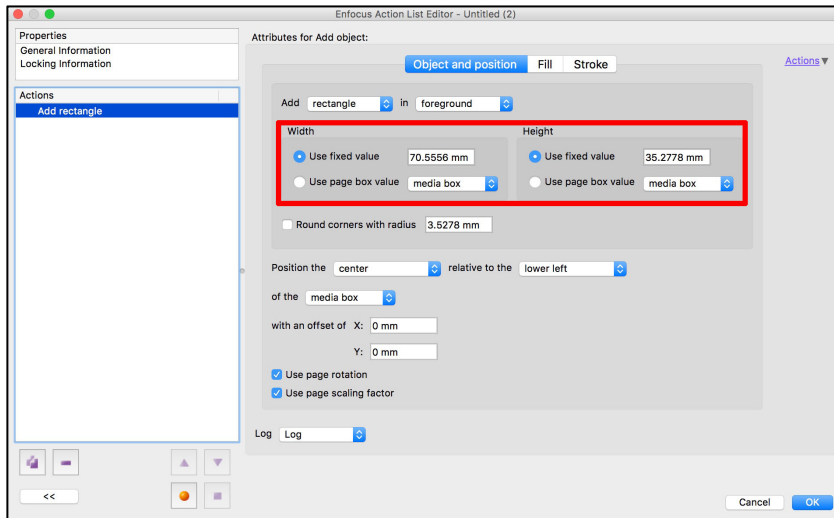
Rectangles can now be created with Round Corners

In addition to generating rectangles based on PDF Page Boxes, it is also now possible to generate rectangles with round corners. This has been a feature request for sometime, for customers who want to automatically generate cutter guides, or dielines for labels based on a PDF Page Box such as the PDF trim box.

Two default Action Lists are also added to this version. These Action Lists make a Dieline in an overprinting spot color based on the trim box. One has a fixed radius and the second has a variable based radius, so the user can set the required radius manually at runtime.
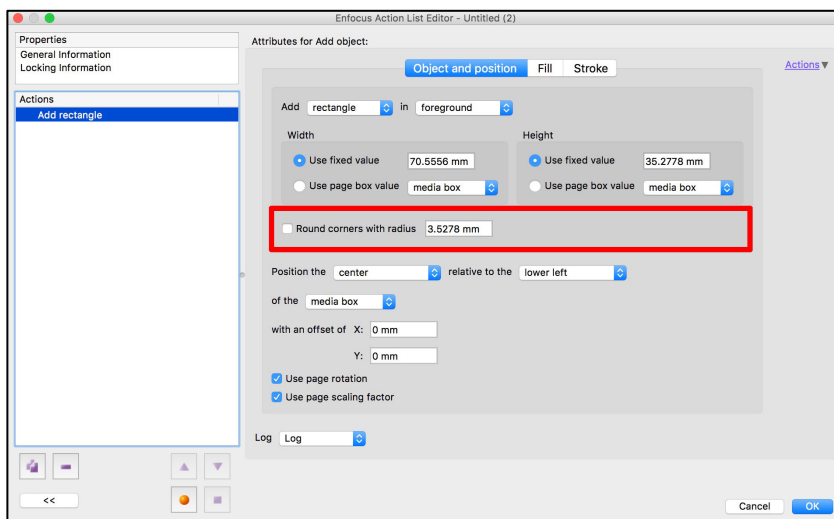
Re-order Pages Action

Another much requested feature is the ability to re-order pages automatically within a PDF file, this is now possible with the new re-order pages Action.

This Action is extremely flexible in use, and enables customers to define their own page re-ordering rules. In addition, some commonly used options have been included by default. We can also add additional defaults, if you have any you think are missing.
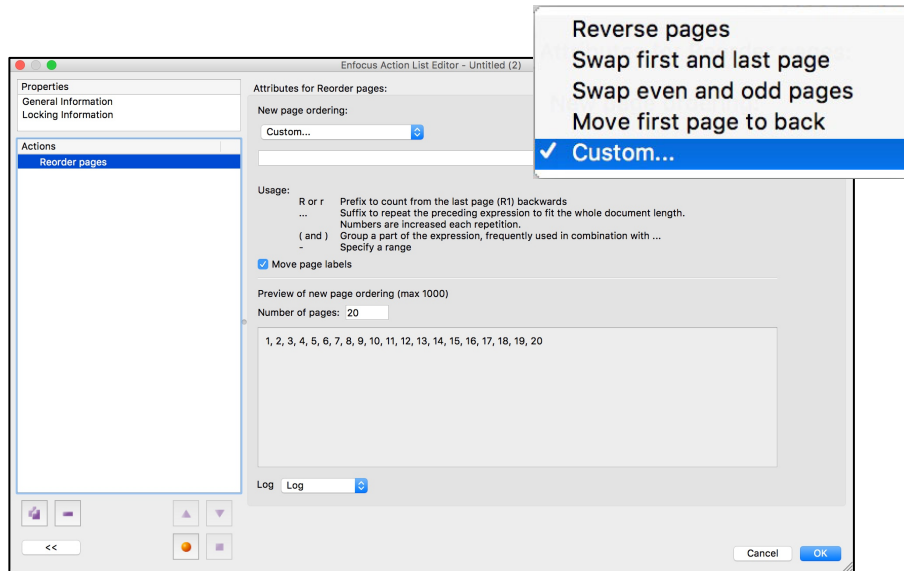
'Remove pages' Action

A very simple new Action without any configuration, this simply deletes pages. You will need to use it in conjunction with a 'Select Pages' Action to define the pages you wish to remove.
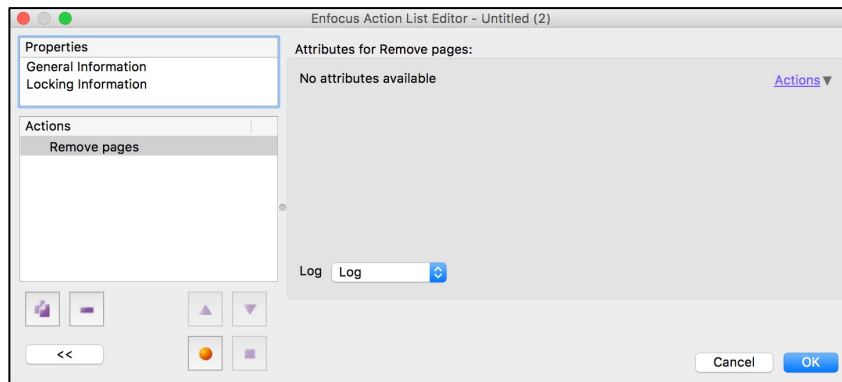
New Action to 'Scale Selection'

This new Action enables you to select an object(s) within a PDF, and then resize it in various ways such as fixed values, variables, percentages and page boxes. The feature also allows you to dictate the anchor point of the object being scaled, and the direction in which the object will resize.
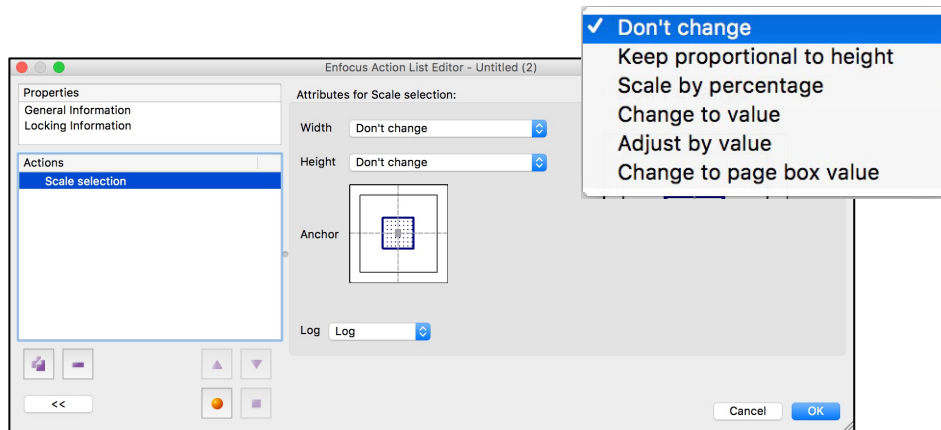
Improvements to 'Scale to fit Page Size' Action

The Scale to fit Page Size Action has undergone some major improvements. Previously it was very rigid in its operation, now it has a lot more flexibility, and enables the height/width to be modified independently if needed. It also enables a value to be entered for one dimension and the other will follow in proportion.
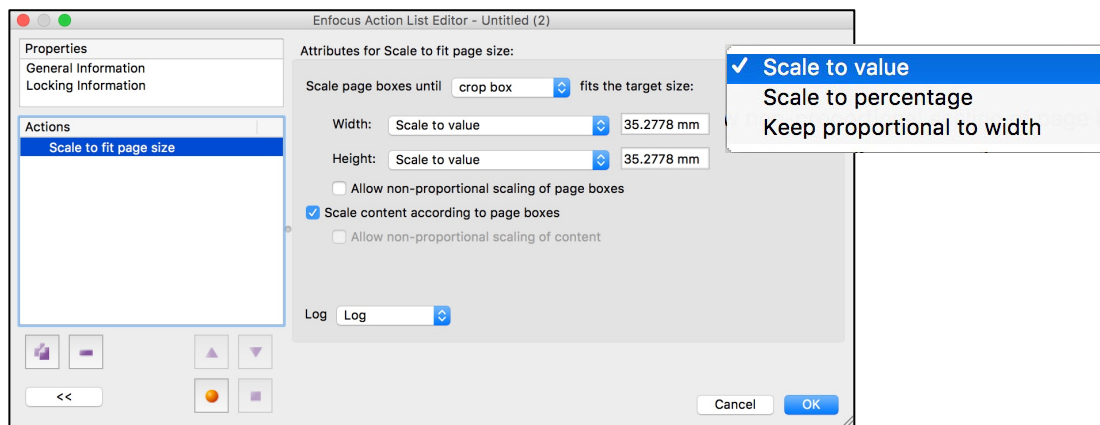
**Preflight Profile Editor – new functionalities**
We've added a new check and fix to the Preflight Profile editor.
Please note that if you include these within your Preflight Profile, then that profile cannot be used in older versions of PitStop.
Both of these functionalities existed previously as Actions, but putting them directly in the Preflight Profile editor makes them more accessible and easier to use.

Preflight Profile Editor – Flatten Form Fields is now a fix option
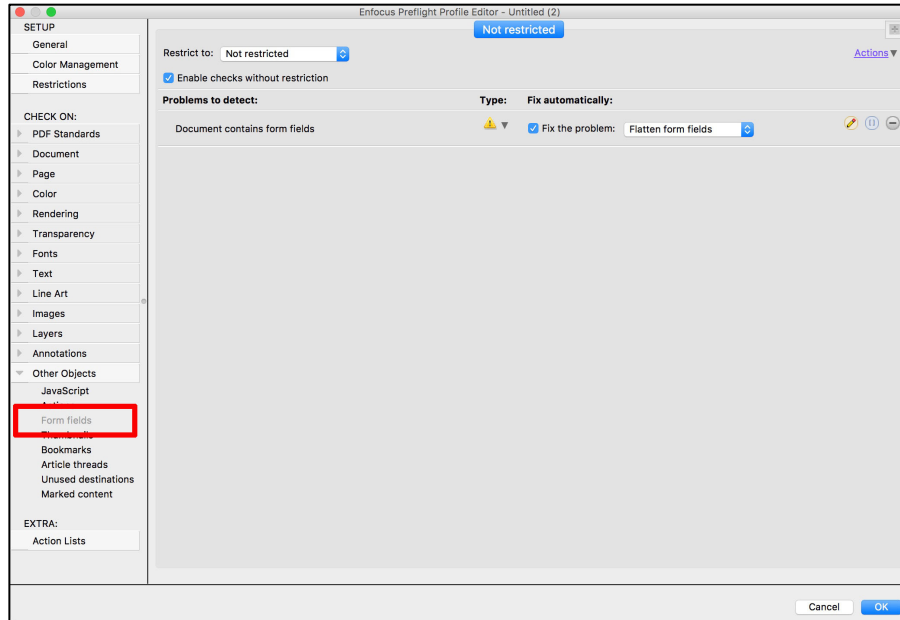
Preflight Profile, new Preflight Check – Check for Corrupt Fonts
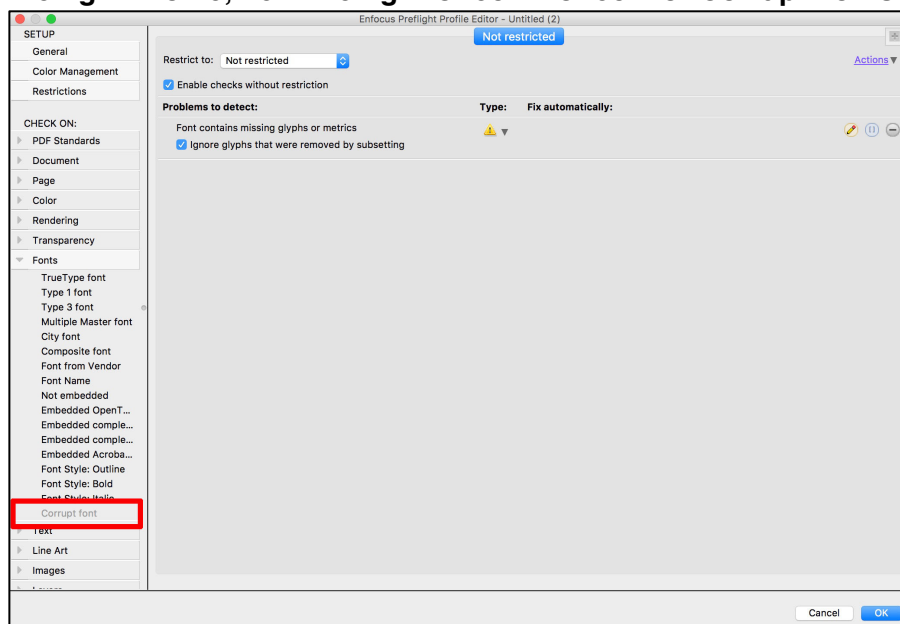
Improvement to Cut/Copy/Paste and Add Copied Graphics (XObjects)
The cut/copy/paste functionality that we added in PitStop 13 has proven extremely popular and has opened up a lot of new capabilities for our customers. With this version we add an additional functionality to the paste Action.
If this option is enabled, pasted objects are treated as XObjects, which means that the object is only actually in the PDF once. All the subsequent pastes link back to that original object, which means that the file size increases are minimized.
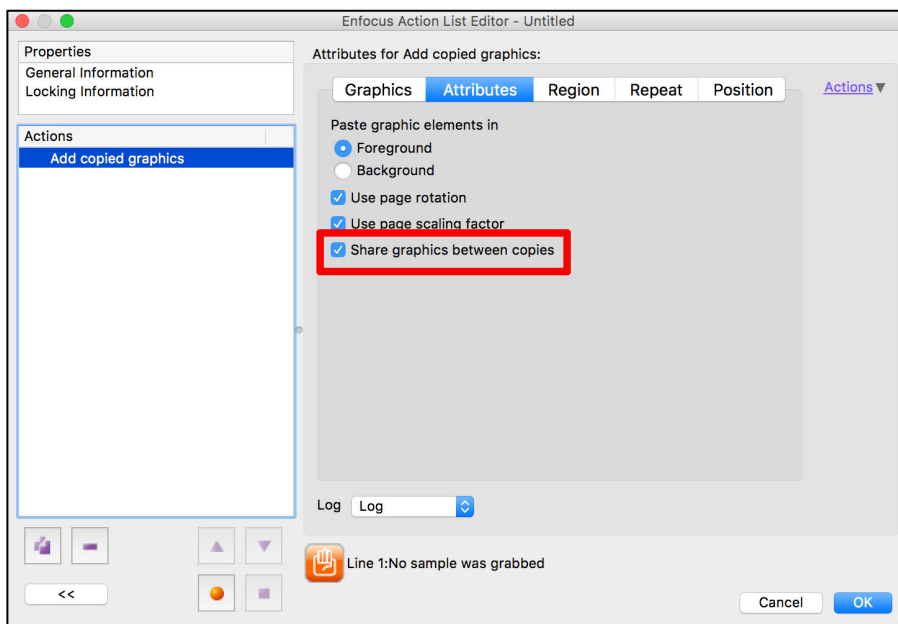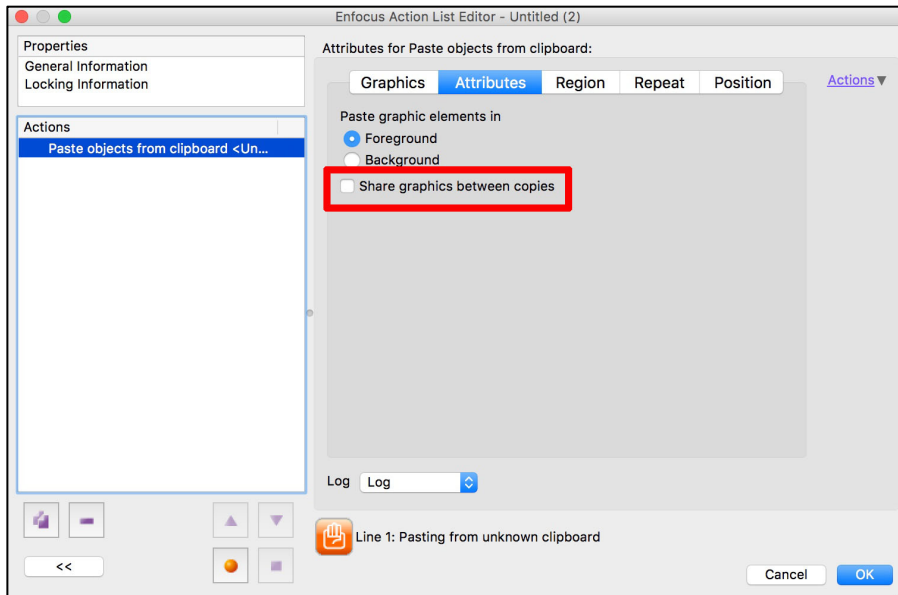
Improvement to Cut/Copy/Paste to use the clipped selection of an Area for position

Another improvement to the Paste Action relates to the position of the objects when they are pasted. In the PitStop 13, when the object was pasted, the pasted position was based on the bounding box of all the elements in the pasted object including hidden objects. This new version takes into account only the visible objects, so you can anticipate the pasted position of the objects with more accuracy.

41 Devicelink Profiles included as standard
With this version of PitStop we now include 41 Devicelink profiles for CMYK-CMYK conversions and managing Ink Coverage. These are made possible by our sister company X-Rite.
These Devicelinks will allow conversion between standard printing conditions and the ability to reduce excess ink coverage via Action Lists. All the Devicelinks will be made available in standard default Action Lists and will also be shipped as individual Devicelink profiles so users can create their own Action Lists.
Please note these profiles are encrypted and will only work with PitStop 2017. They will also not work with older versions of PitStop or other color applications.

PitStop Server - updated Adobe Transparency Flattener
This version of PitStop Server contains the latest Adobe PDF Library Transparency flattener (v15.0.1PlusP1m).

Support for Macintosh OSX version 10.12 (Sierra)
This operating system is now officially supported with PitStop 2017

New Standard Action Lists (will be supplied individually for the beta)

- RESTRICTION - Preflight only needed objects (ignore hidden ones)
- RESTRICTION - Preflight objects only within a contour (cutter guide/dieline)
- RESTRICTION - Preflight objects only within or overlapping a contour (cutter guide/dieline)
- RESTRICTION - Esko 'Normal' Inks
- RESTRICTION - Esko 'Technical' Inks
- PREPRESS - Remove Irrelevant objects
- PREPRESS - Remove irrelevant text objects
- PREPRESS - Remove irrelevant vector objects
- PREPRESS - Find Images without an overlapping Varnish
- PREPRESS - Check for Black Text sitting on Dark Color (does not include images)
- PREPRESS - Check for White Text sitting on Light Color (does not include images)
- PACKAGING - Created Round Cornered Cutter Guide based on PDF Trim Box (5mm Radius)
- PACKAGING - Created Round Cornered Cutter Guide based on PDF Trim Box (Variable)
- PAGE - Move first Page to Last
- PAGE - Reverse Page Order
- PAGE - Delete First Page
- PAGE - Delete Last Page
- LAYERS - Check for existence of a Layer by the Layer name

Devicelink Profiles

Ink Coverage Reduction
Reduce-GRACoL2006_Coated1v2-320%TAC
Reduce-GRACoL2013_CRPC6-320%TAC
Reduce-GRACoL2013UNC_CRPC3-280%TAC
Reduce-ISOcoated_v2-300%TAC
Reduce-ISOcoated_v2-330%TAC
Reduce-JapanColor2001Coated-340%TAC
Reduce-JapanColor2001Uncoated-300%TAC
Reduce-JapanColor2011Coated-340%TAC
Reduce-PSO_LWC_Improved_eci-300%TAC
Reduce-PSO_LWC_Standard_eci-300%TAC
Reduce-PSOcoatedv3-300%TAC
Reduce-SC_paper_eci-270%TAC
Reduce-SWOP2006_Coated3v2-300%TAC
Reduce-SWOP2006_Coated5v2-280%TAC
Reduce-SWOP2013C3_CPRC5-260%TAC

Conversion between Printing Standards (From-to)
GRACoL2006Coated1v2-Fogra39-300%TAC
GRACoL2006Coated1v2-SWOP2006Coated3-300%TAC
ISOCoatedv2-GRACoL2006Coated1v2-300%TAC
ISOCoatedv2-SWOP2006Coated3-300%TAC
ISOCoatedv2-SWOP2006Coated5-300%TAC
ISOUncoated-Fogra39-300%TAC

ISOUncoated-SWOP2006Coated3-300%TAC
ISOuncoated-SWOP2006Coated5-300%TAC
JapanColor2011-Fogra39-300%TAC
JapanColor2011-GRACoL2006Coated1v2-300%TAC
JapanColor2011-SWOP2006Coated3-300%TAC
JapanColor2011-SWOP2006Coated5-300%TAC
PSOcoatedv3-Fogra39-300%TAC
PSOcoatedv3-GRACoL2006Coated1v2-300%TAC
PSOcoatedv3-SWOP2006Coated3-300%TAC
PSOcoatedv3-SWOP2006Coated5-300%TAC
PSOUncoatedv3-Fogra39-300%TAC
PSOUncoatedv3-GRACoL2006Coated1v2-300%TAC
PSOUncoatedv3-SWOP2006Coated3-300%TAC
PSOUncoatedv3-SWOP2006Coated5-300%TAC
SWOP2006Coated3v2-Fogra39-300%TAC
SWOP2006Coated3v2-GRACoL2006Coated1v2-300%TAC
SWOP2006Coated3v2-SWOP2006Coated5-300%TAC
SWOP2006Coated5v2-Fogra39-300%TAC
SWOP2006Coated5v2-GRACoL2006Coated1v2-300%TAC
SWOP2006Coated5v2-SWOP2006Coated3-300%TAC

Important Fixes

The following customer reported bugs have also been resolved with this update. If you reported one of these bugs it would be helpful if you could verify that it has been fixed on your system.

Log Number	Description
BZ33886	The search engine ignores empty lines consisting of lone spaces
ENFP-3970	Temp files from configurator (Command line) tasks where the input folder is on a network volume are not cleaned up
ENFP-3966	Excessive tmp files created when doing rendering tasks
ENFP-3965	Crash in PitStop Server caused by "Add Bleed"
ENFP-3975	Object appears when rasterizing
ENFP-4662	The action to add varnish always adds a varnish for forms, resulting in bad or obsolete varnishes
ENFP-4665	The close gaps action does not log correctly if the page content contains a form followed by a path that needs to be closed
ENFP-4663	Line weight preflight fix changes to zero
ENFP-4669	Check page safe type zone does not update right/left labels
ENFP-4029	Action list only works on some files if many are processed at same time
ENFP-4022	PitStop Server crashes with an Action List creating a clone of a PNG
ENFP-4667	GWG ICC profile web site is invalid
ENFP-4660	PitStop Server 13 preferences contain invalid folder path
ENFP-4781	Converting to gray after using the standard action list to add marks, makes the marks disappear
ENFP-4673	Spot colors with ASCII characters create invalid XML reports
ENFP-3972	Adding bleed is not working when the content is inside a form, which is inside a form
ENFP-4794	German Language Preferences working incorrectly
ENFP-4784	Link buttons in Regular preflight report not working with Acrobat DC
ENFP-2106	Click on the magnifying glass in the PitStop Pro Preflight report won't bring the concerning PDF in front because of the tab structure of Acrobat DC
BZ34144	.notdef glyph issue in supplied file
BZ25700	File corrupt after going through PitStop Server with an empty Preflight Profile
ENFP-4970	Custom reports not working with PitStop Pro and PitStop Server 13.2
ENFP-4976	Fix to resize trimbox is executed while it shouldn't
ENFP-4958	PitStop Server on Windows has issues with filenames containing decomposed unicode
ENFP-4913	Certified PDF - Signing the digital signature failed/ Corrupt session
ENFP-4902	Disabled hotfolder is not updated in the UI
ENFP-4891	Adding a background with PitStop Server can corrupt a PDF
ENFP-4901	ICC Based color fix is not applied automatically
ENFP-4996	Differences in the highlighting in an Annotated Report

ENFP-4909	Objects are removed after replacing page content with bitmap, keeping text
ENFP-5024	Recorded EAL prompts error
ENFP-4926	File doesn't process in PitStop Server
ENFP-5038	Slow processing speed when searching for trim marks in some files
ENFP-4811	Cannot specify blending ICC profile in PitStop Server configurator
ENFP-5031	Wrong xref table with PitStopLib 12 update 3 or later
PRN58417	Japanese, Enfocus tool names should be displayed completely
ENFP-5027	Add Bleed Action List affects objects in form xobjects
ENFP-5002	Flattening issue with PitStop Server 13 update 2
ENFP-4837	Compression in PitStop Server compromises image
ENFP-5191	Acrobat crashes while reordering Action Lists in a Preflight Profile
ENFP-5043	When adding bleed some added objects are not visible
ENFP-5157	Element not outside the trim box gets removed with Action List to remove content outside the trim box
ENFP-5122	Some custom preflight messages don't work
ENFP-4867	Convert shading to image issue
ENFP-5040	Remap color issues: no error shown when the action list could not remap a spot color in NChannel
ENFP-5046	Adding bleed visually changes a file
BZ33567	PitStop Server interface is not closing down
ENFP-5153	Acrobat goes to not responding with certain Action List and files
ENFP-5176	Text disappears when converting text to outlines or bitmap
ENFP-5170	Layers are removed from layers Panel in Acrobat while they shouldn't
ENFP-5146	Selection rectangle not immediately showing in PitStop Pro
ENFP-5159	Issues with a DeviceN color space containing spot colors that are not defined in its colorants dictionary: proposed fix doesn't work
ENFP-4864	The Acrobat combine files functionality via right click in Explorer is no longer working when PitStop Pro is installed
ENFP-5250	The CLI does not exit gracefully on a certain corrupt file
ENFP-5257	"Invalid Extended Graphic State" error when opening PDF file with PitStop Pro
ENFP-5259	Leading space before Enfocus ID when signing in-issue
ENFP-5136	Crash when rasterizing page content on a high resolution
ENFP-5121	PitStop Library is not releasing the preflighted output PDF