

### 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

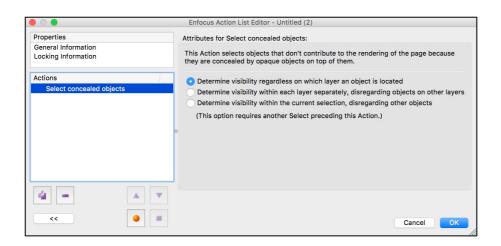
This new Select Action allows you to select elements that are present within a PDF file, but are not needed to render or print the PDF. Typically these objects are the result of a lazy PDF creator, or can be caused where a PDF has been placed and cropped within a page layout application such as Adobe 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.

		Enfocus Action List Editor - Untitled (2)
Properties		Attributes for Select visible objects:
General Information Locking Information		This Action selects objects that contribute to the rendering of the page.
Actions Select visible objects		<ul> <li>Determine visibility regardless on which layer an object is located</li> <li>Determine visibility within each layer separately, disregarding objects on other layers</li> <li>Determine visibility within the current selection, disregarding other objects (This option requires another Select preceding this Action.)</li> </ul>
4 -		
<<	•	Cancel OK

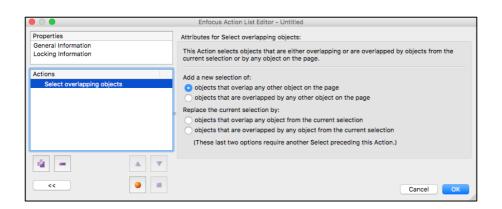
#### **Select Overlapping Objects Action**

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.

	Enfocus Inspector		Enfocus Inspecto	r
1 Form Selected		1 Form Selected		
🔁 A 🗖		🔁 A 💌		
<ul> <li>Transparency - Transpare</li> </ul>	ency Group	Transparency - Parent	Transparency Groups	
Form is transpar	ency group	Parent groups of	the current selection (	click to select)
Knockout gro	pup	Parent ty	vpe Knockout	Isolated Blending color space
Isolated grou		Page group	No	Yes CMYK
Blending color s	space: None (inherited from the parent group, pr $\Diamond$	Transparency g	group No	Yes CMYK
ω	ICC Profile: None	Transparency	group No	No СМҮК
		User selectio	n -	-

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.





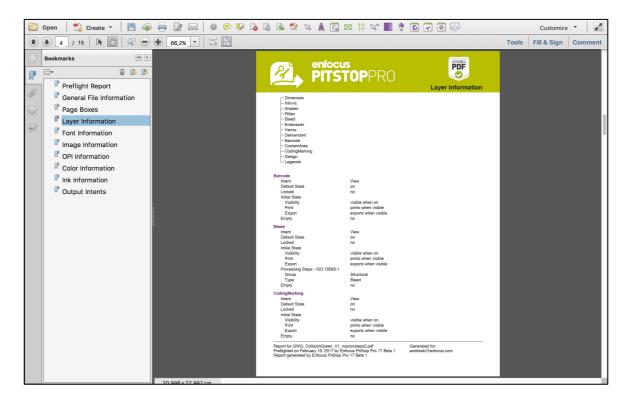
#### New layers category within the Preflight report

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'.





			Enfocus Pro	Preflight Profile Editor - Untitled (2)
SETUP	▼ Profile Prop	erties		
General	Name:	Untitled (2)		
Color Management	Author:			
Restrictions	Company:			
CHECK ON:	Description			
PDF Standards	▼ Permissions	r i		
Document	Profile is:	Not locked	Set Password	ord
Page	0	Allow changing 'A	Allow fixes'	
Color		Allow changing 'A		
Rendering	0	Allow changing 'L	.og fixes','Preflight Rep	Report' and 'Color Management' settings
Transparency	▼ Problem Ha	ndling		
Fonts	🗸 Allow fix	es		
▶ Text	🗹 Allow sig	jn-off		
Line Art	Log fixes	\$		
Images	▼ Preflight Re			
Layers	-		ult, include details of:	
Annotations	Fonts Images	Color	Page boxes Output Intent	
Other Objects	<b>Minuges</b>	011	C Output intent	
EXTRA:				
Action Lists				
				Cancel

## 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.



	Enfocus Action List Editor - Untitled (2)	
	Enfocus Action List Editor - Unitied (2)	
Properties	Attributes for Add object:	
General Information		Actions V
Locking Information	Object and position Fill Stroke	Actions
Actions	Add rectangle 📀 in foreground 📀	
Add rectangle		
	Width Height	
	Use fixed value 70.5556 mm     Use fixed value 35.2778 mm	
	Use page box value media box 📀 Use page box value media box 📀	
	Round corners with radius 3.5278 mm	
	Position the center 😋 relative to the lower left	
	of the media box ᅌ	
	with an offset of X: 0 mm	
	Y: 0 mm	
	Use page rotation	
	Use page scaling factor	
	Log Log	
4 - A V		
<< 9		
	Cance	el OK

#### 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.

	Enfocus Action List Editor - Untitled (2)	
Properties	Attributes for Add object:	
General Information Locking Information	Object and position Fill Stroke	Actions V
Actions Add rectangle	Add rectangle in foreground i Width Height Use fixed value 70.5556 mm Use fixed value 35.2778 mm Use page box value media box i Round corners with radius 3.5278 mm Position the center i relative to the lower left i of the media box i with an offset of X: 0 mm Y: 0 mm Y: 0 mm V use page scaling factor	
	Log Log 🧿	
4 -		
<<	Cance	el OK

#### **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.



Properties General Information Locking Information	Enfocus Action List Edito Attributes for Reorder pages: New page ordering: Custom	Reverse pages Swap first and last page Swap even and odd pages Move first page to back
Actions Reorder pages		✓ Custom
	Numbers are increased et (and) Group a part of the expre- Specify a range Move page labels Preview of new page ordering (max 1000) Number of pages: 20 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 1	eding expression to fit the whole document length. ach repetition. sssion, frequently used in combination with
4 -	Log Log 🗘	

#### '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.

	Enfocus Action List Editor - Untitled (2)	
Properties	Attributes for Remove pages:	
General Information Locking Information	No attributes available	<u>Actions</u> ▼
5		
Actions		
Remove pages		
	۰	
	Log Log ᅌ	
4 - •	<b>v</b>	
<<		
		Cancel OK

#### 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.



		✓ Don't change
	Enfocus Action List Editor - Untitled (2	Keep proportional to height Scale by percentage
Properties General Information Locking Information	Attributes for Scale selection: Width Don't change	Change to value Adjust by value
Actions Scale selection	Height Don't change	Change to page box value
		Cancel OK

Improvements to 'Scale to fit Page Size' Action

	Enfocus Action List Editor - Untitled (2)
Properties	Attributes for Scale to fit page size:
General Information	✓ Scale to value
Locking Information	Scale page boxes until crop box of fits the target size: Scale to percentage
Actions	Width: Scale to value 35.2778 mm Keep proportional to width
Scale to fit page size	Height: Scale to value S 35.2778 mm
	Allow non-proportional scaling of page boxes
	Scale content according to page boxes
	Allow non-proportional scaling of content
	Log Log 😜
4 -	
<<	Cancel

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.



• •	Enfocus Pro	flight Profile Editor - Untitled (2)	
SETUP		Not restricted	2
General	Restrict to: Not restricted		Actions V
Color Management			
Restrictions	Enable checks without restriction		
	Problems to detect:	Type: Fix automatically:	
CHECK ON: PDF Standards	Document contains form fields	🔔 🔻 🗹 Fix the problem: 🛛 Flatten form fields 🔤 🔇	🧷 🕕 😑
			·
Document			
Page			
Color			
Rendering			
Transparency			
Fonts			
Text			
Line Art			
Images			
Layers			
Annotations			
<ul> <li>Other Objects</li> </ul>			
JavaScript			
Form fields			
Bookmarks			
Article threads			
Unused destinations			
Marked content			
EXTRA:			
Action Lists			
			Cancel OK

#### Preflight Profile Editor – Flatten Form Fields is now a fix option

#### Preflight Profile, new Preflight Check – Check for Corrupt Fonts

		Trome Earton - Ontinea (2)	
SETUP		Not restricted	10
General	Restrict to: Not restricted		Actions V
Color Management			
Restrictions	Enable checks without restriction		
	Problems to detect:	Type: Fix automatically:	
CHECK ON:	Font contains missing glyphs or metrics	📥 🔻	Ø (1)
PDF Standards	Ignore glyphs that were removed by subsetting	<u> </u>	000
Document			
Page			
Color			
Rendering			
Transparency			
<ul> <li>Fonts</li> </ul>			
TrueType font			
Type 1 font			
Type 3 font			
Multiple Master font			
City font			
Composite font Font from Vendor			
Font Name			
Not embedded			
Embedded OpenT			
Embedded comple			
Embedded comple			
Embedded Acroba			
Font Style: Outline			
Font Style: Bold			
Font Stule: Italia			
Corrupt font			
P lext			
Line Art			
Images			
h Lauran	1		
			Cancel

#### 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.



	Enfocus Action List Editor - Untitled (2)
Properties	Attributes for Paste objects from clipboard:
General Information	
Locking Information	Graphics Attributes Region Repeat Position Actions
	Paste graphic elements in
Actions	• Foreground
Paste objects from clipboard <un< td=""><td>Background</td></un<>	Background
	Share graphics between copies
	Log Log ᅌ
	Line 1: Pasting from unknown clipboard
CC	
<<	Cancel
	Enfocus Action List Editor - Untitled
Properties	Attributes for Add copied graphics:
General Information	
Locking Information	Graphics Attributes Region Repeat Position Actions
	Paste graphic elements in
Actions	• Foreground
Add copied graphics	Background
	✓ Use page rotation
	Vuse page scaling factor
	Share graphics between copies
	,
	Log Log S
	Log Log
ř <u>í</u> – A V	
	Log Log © Line 1:No sample was grabbed

# 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-PSO\_LWC\_Standard\_eci-300%TAC Reduce-PSOcoatedv3-300%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"
	Object appears when rasterizing
ENFP-4662	The action to add varnish always adds a varnish for forms, resulting
	in bad or obsolete varnishes
	The close gaps action does not log correctly if the page content
	contains a form followed by a path that needs to be closed
	Line weight preflight fix changes to zero
	Check page safe type zone does not update right/left labels
	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
	Spot colors with ASCII characters create invalid XML reports
	Adding bleed is not working when the content is inside a form, which
	is inside a form
	German Language Preferences working incorrectly
	Link buttons in Regular preflight report not working with Acrobat DC
	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
	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
	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
	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