

Fiery Command WorkStation 6 FS300 & Above Color Settings

How to use this document

This tool is intended to show users the detailed color processing path for Fiery servers on FS300 software and above running Fiery Command WorkStation® 6. [Watch the full video](#) presentation to understand how each setting affects different color spaces. This page describes how to access the expert settings along with some key concepts related to digital front end (DFE) color management. Finally, you will see the recommended Fiery expert color settings to use for most jobs.

Managing various color spaces

Users are able to send jobs to the Fiery server containing a variety of color spaces. The Fiery server processes each of the many color types for precise color output and consistency. Fiery servers offer advanced color management capabilities that provide users with greater color control. The expert features and options allow users to customize workflows to deliver accurate color every time.

This document provides examples of the impact of various color management settings to help guide you to configuring the Fiery server for the best color result. Although not every possible combination of options is presented, enough information is provided to ensure that you can make the correct decisions when setting up your workflows and output devices.

In a traditional print environment, CMYK workflows were often preferred. Fiery servers' color technology allow the flexibility to work in a variety of color spaces like CMYK, RGB, device independent color spaces, and custom spot colors without having to modify the native content to be compatible with a traditional print workflow.

How do I know what color space I am using?

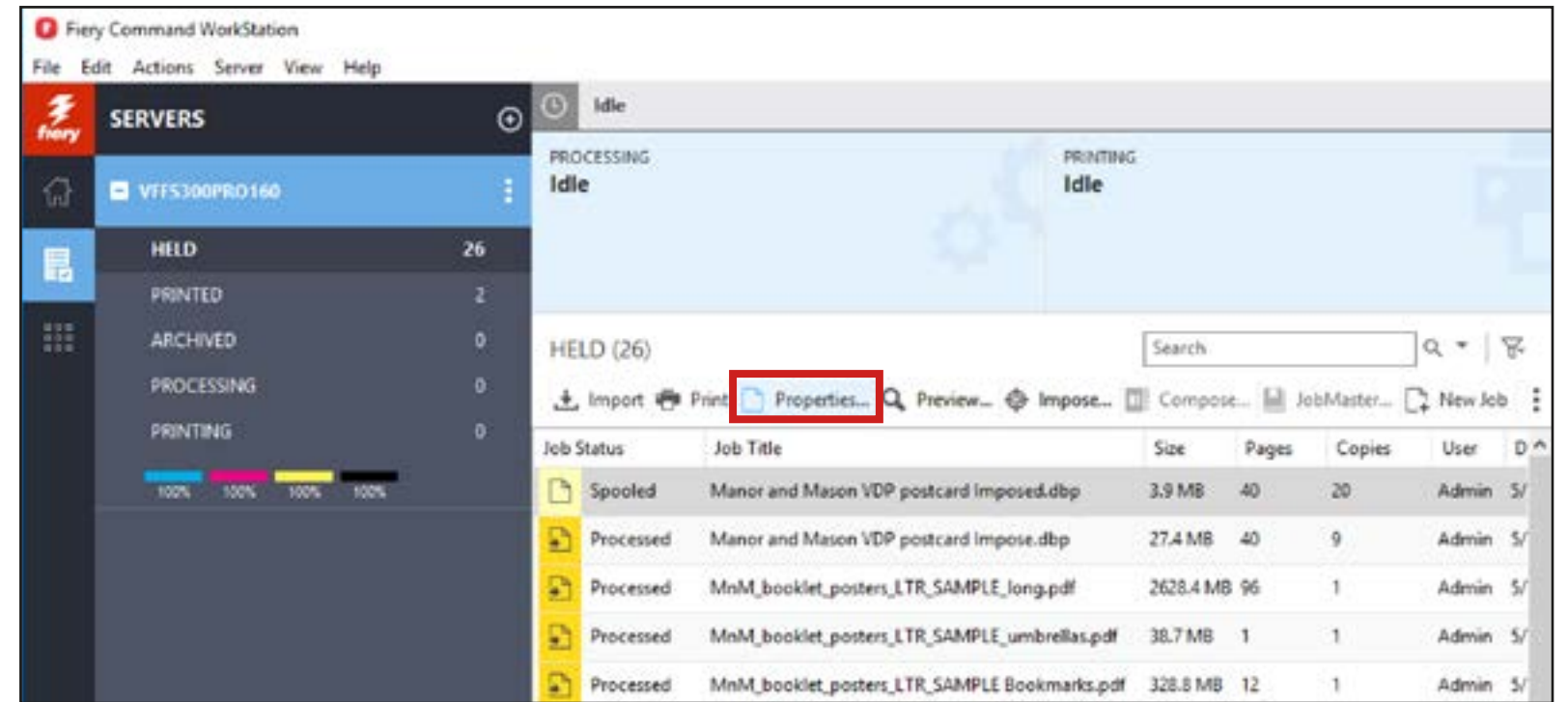
As content is designed in a native application, this provides the first source of information on the color type. Business applications typically use RGB while graphics applications can draw with CMYK, RGB and custom spot colors. Digital cameras capture images in RGB, and corporate logos are often created using spot colors from industry standard color libraries. If you do not have access to the native content, the Fiery server has utilities in the Graphic Arts Package, Premium Edition (or Productivity Package) that can help you identify documents' color content.

Print Gray Using Black Only

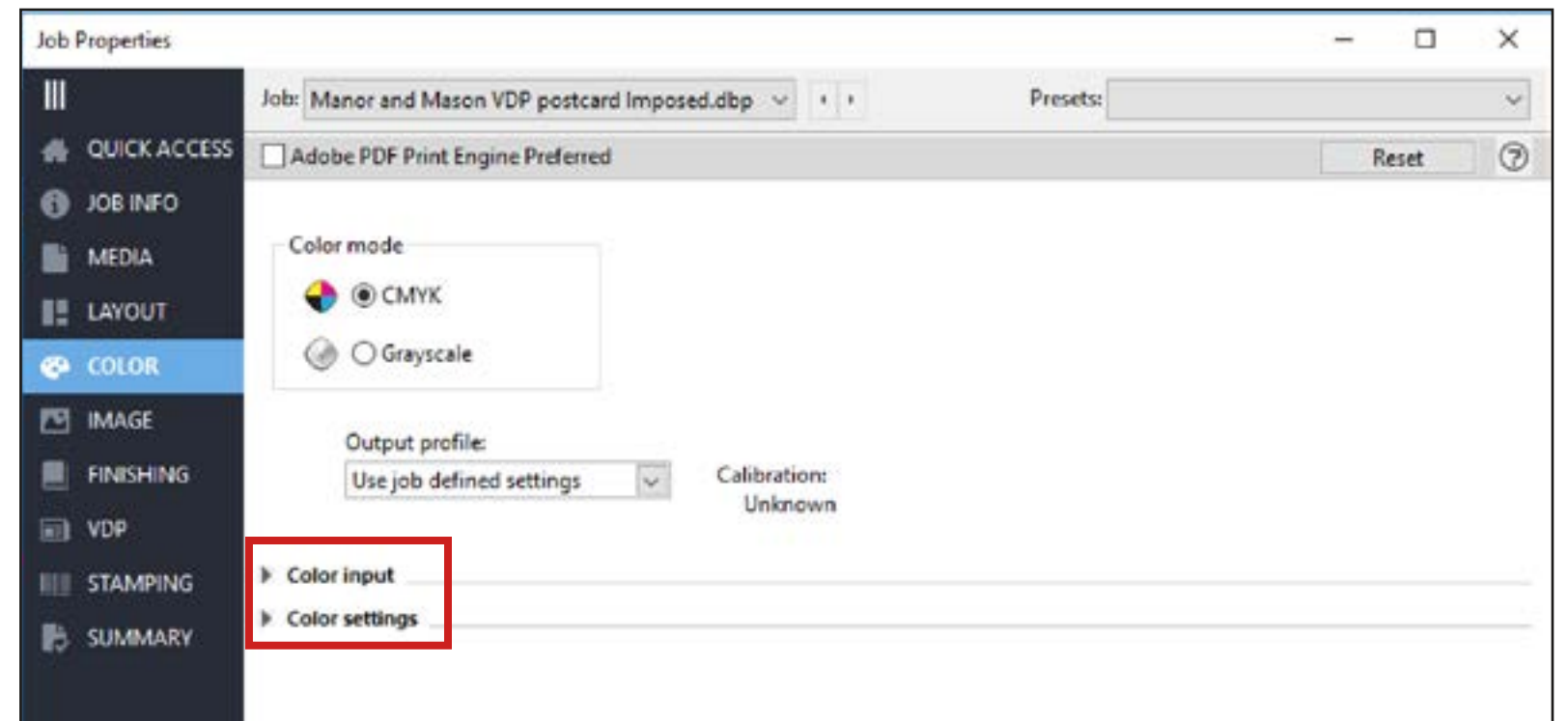
Color management is designed to convert color from a source device to a destination device and closely maintain the color appearance between these different devices. For example printing a RGB photograph from a digital camera to a printer using CMYK. A side effect of this design is converting pure colors like Black and Gray into the print system's CMYK. This can affect the neutral appearance of gray and add unwanted color clicks to the print job. Fiery servers' Gray and Black processing eliminate this problem by preserving the source Black and Gray colors to print with only the print system's black toner, saving the color click charge.

How to access the color settings on your Fiery DFE

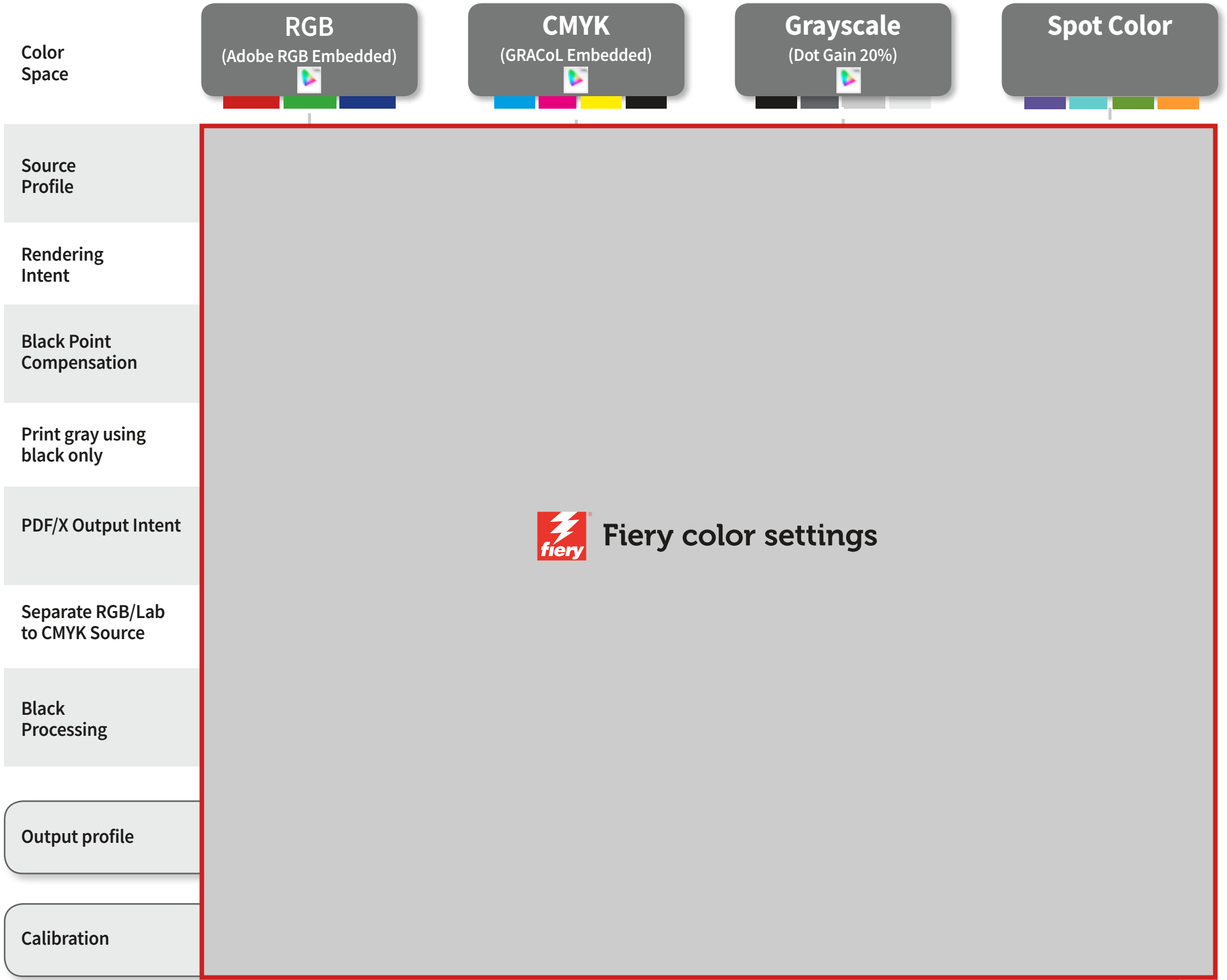
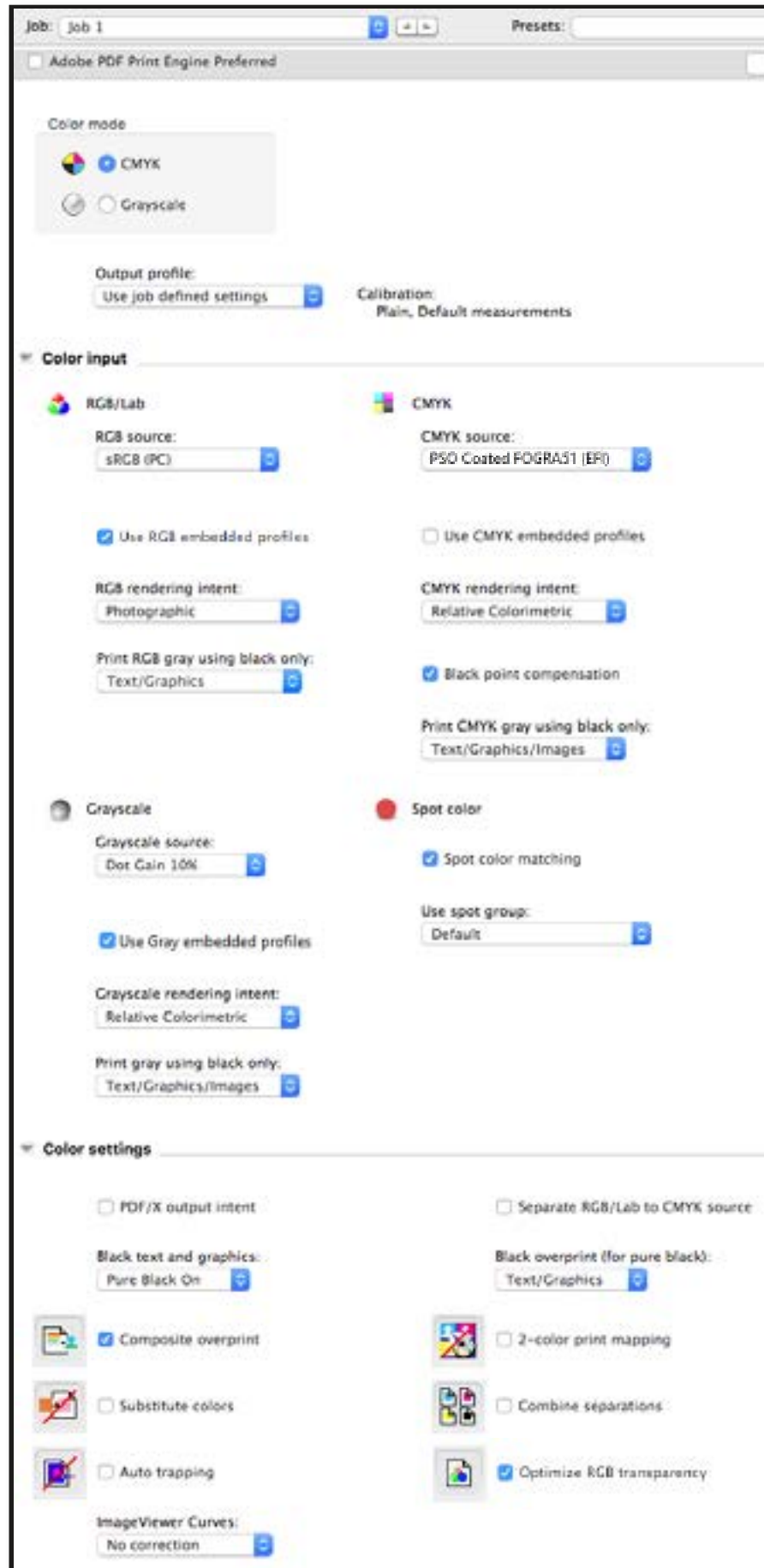
Select Properties after highlighting a job in the list from within Fiery Command WorkStation 6.



Expand the Color input and Color settings sections to view all color settings.



Fiery Command WorkStation 6 FS300 & Above Color Settings – Best Practices Flowchart



Fiery Command WorkStation 6 FS300 & Above Color Settings – What's New

Color mode

- CMYK
- Grayscale

Output profile: Use job defined settings

Calibration: Plain, Default measurements

Color input

RGB/Lab

- RGB source: sRGB (PC)
- Use RGB embedded profiles
- RGB rendering intent: Photographic
- Print RGB gray using black only: Off

CMYK

- CMYK source: PSO Coated FOGRA31 (EP)
- Use CMYK embedded profiles
- CMYK rendering intent: **Relative Colorimetric**
- Black point compensation
- Print CMYK gray using black only: Text/Graphics/Images

Grayscale

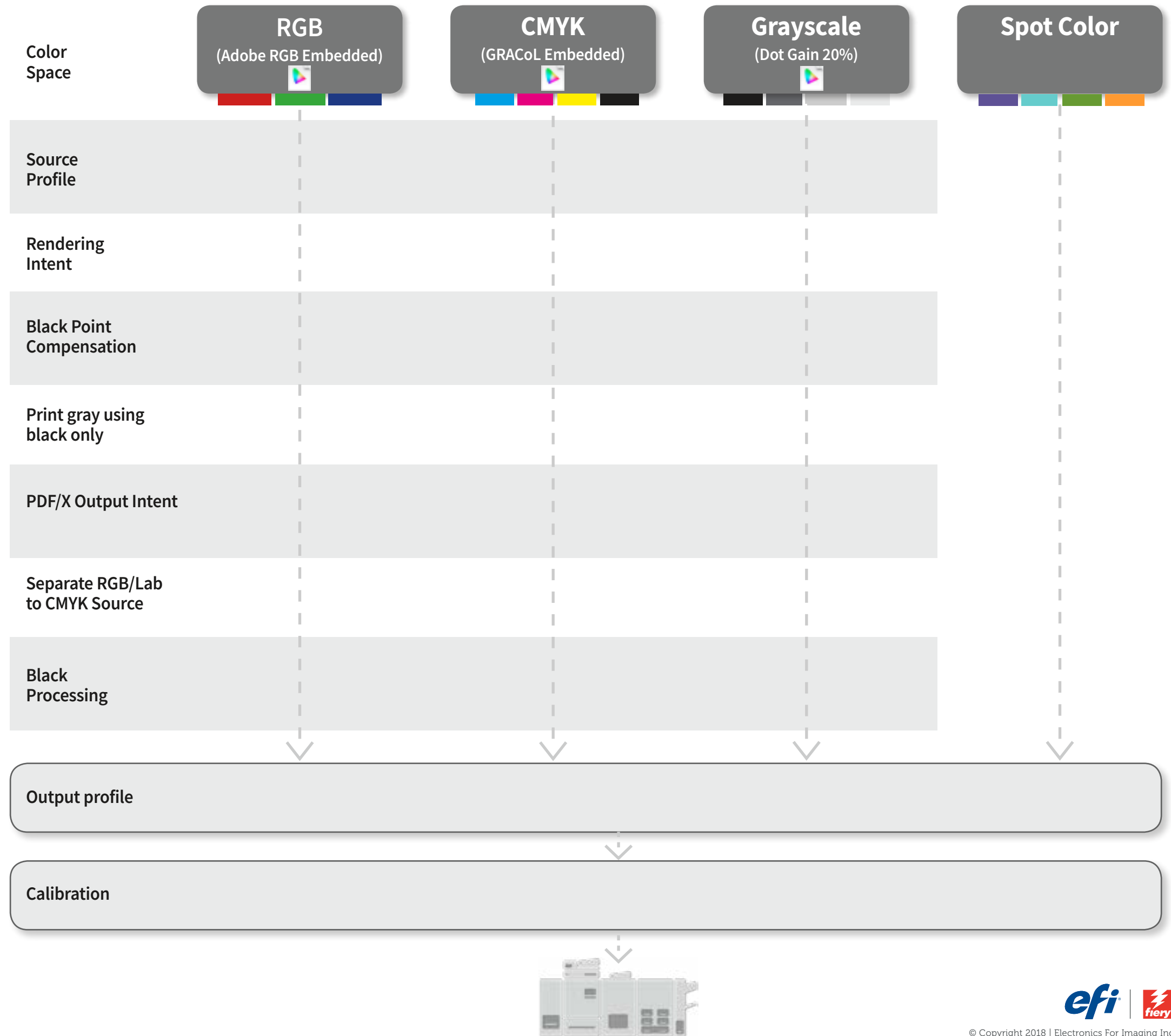
- Grayscale source: **Dot Gain 10%**
- Use Gray embedded profiles
- Grayscale rendering intent: **Relative Colorimetric**
- Print gray using black only: **Text/Graphics/Images**

Spot color

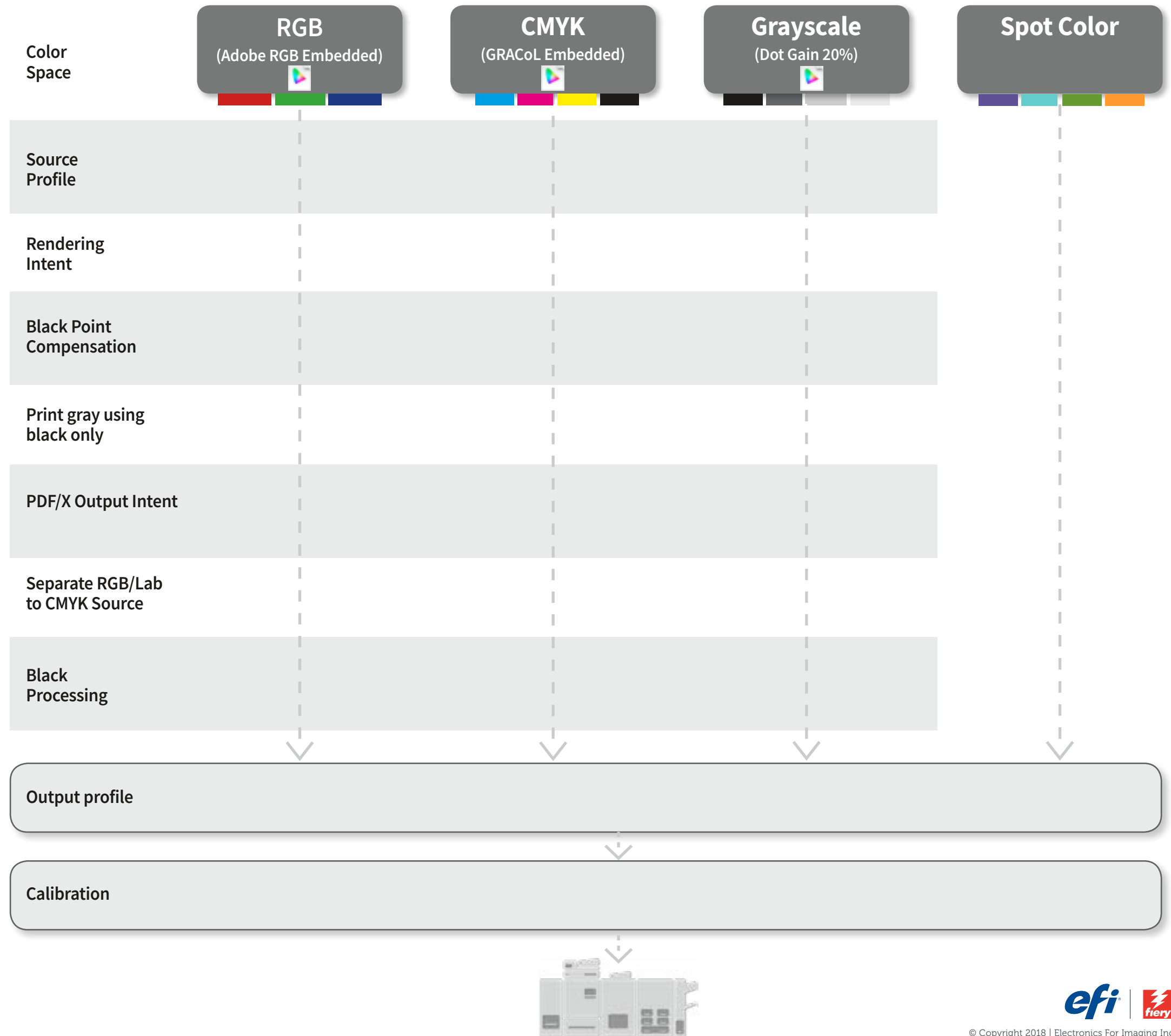
- Spot color matching
- Use spot group: **Default**

Color settings

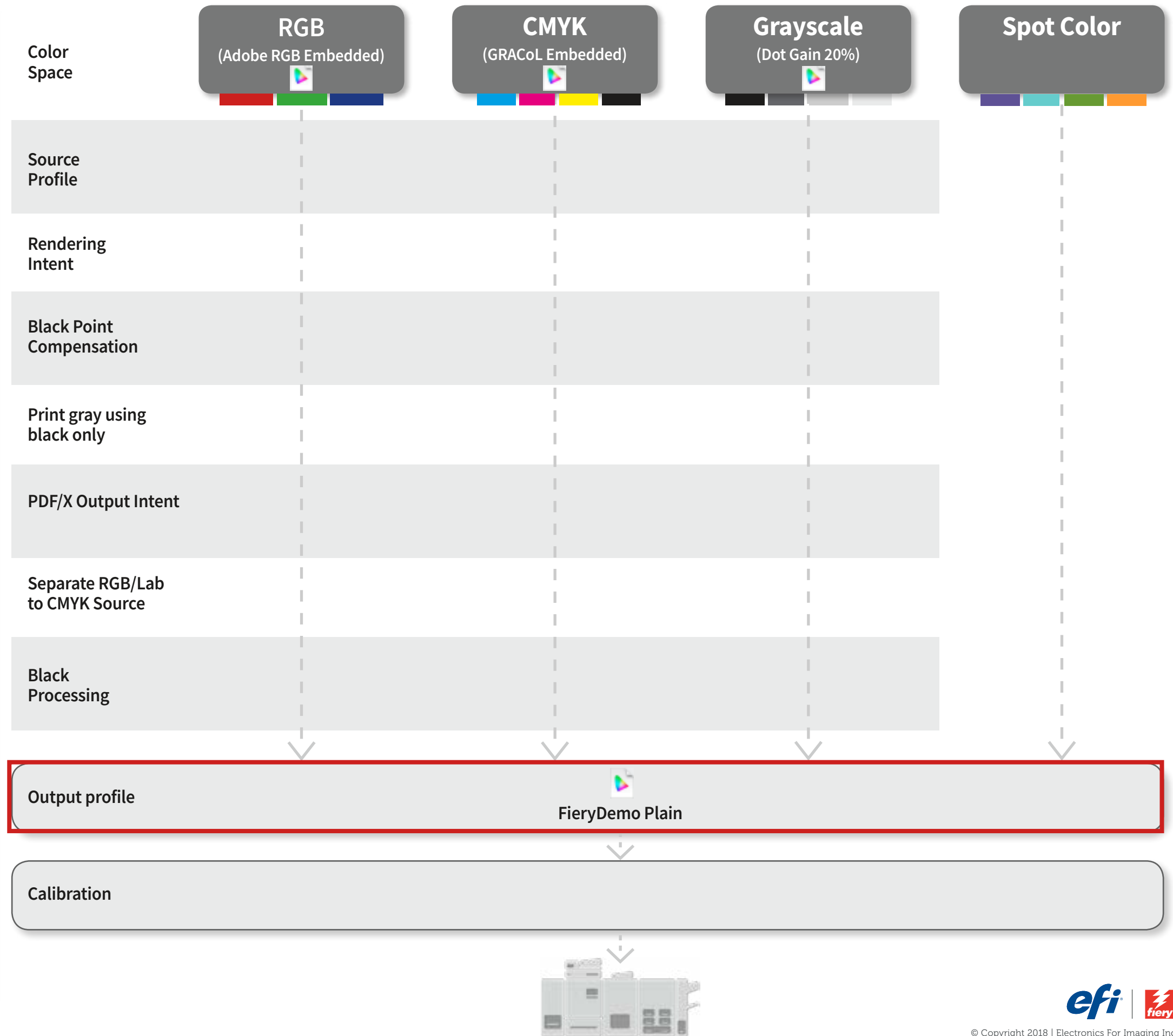
- PDF/X output intent
- Separate RGB/Lab to CMYK source
- Black text and graphics: Pure Black On
- Black overprint (for pure black): Text/Graphics
- Composite overprint
- 2-color print mapping
- Substitute colors
- Combine separations
- Auto trapping
- Optimize RGB transparency
- ImageViewer Curves: No correction



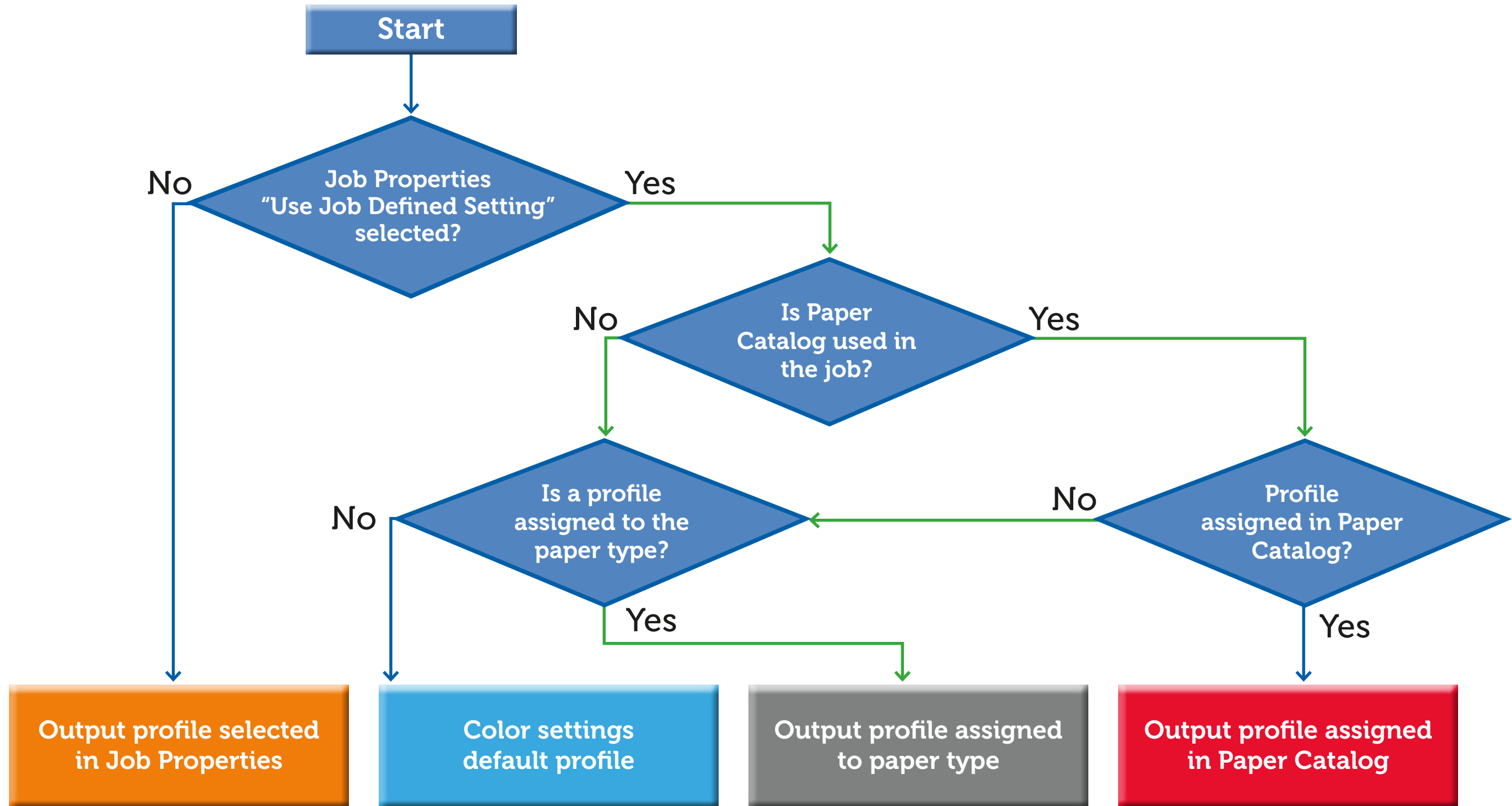
Fiery Command WorkStation 6 FS300 & Above Color Settings – Best Practices Flowchart



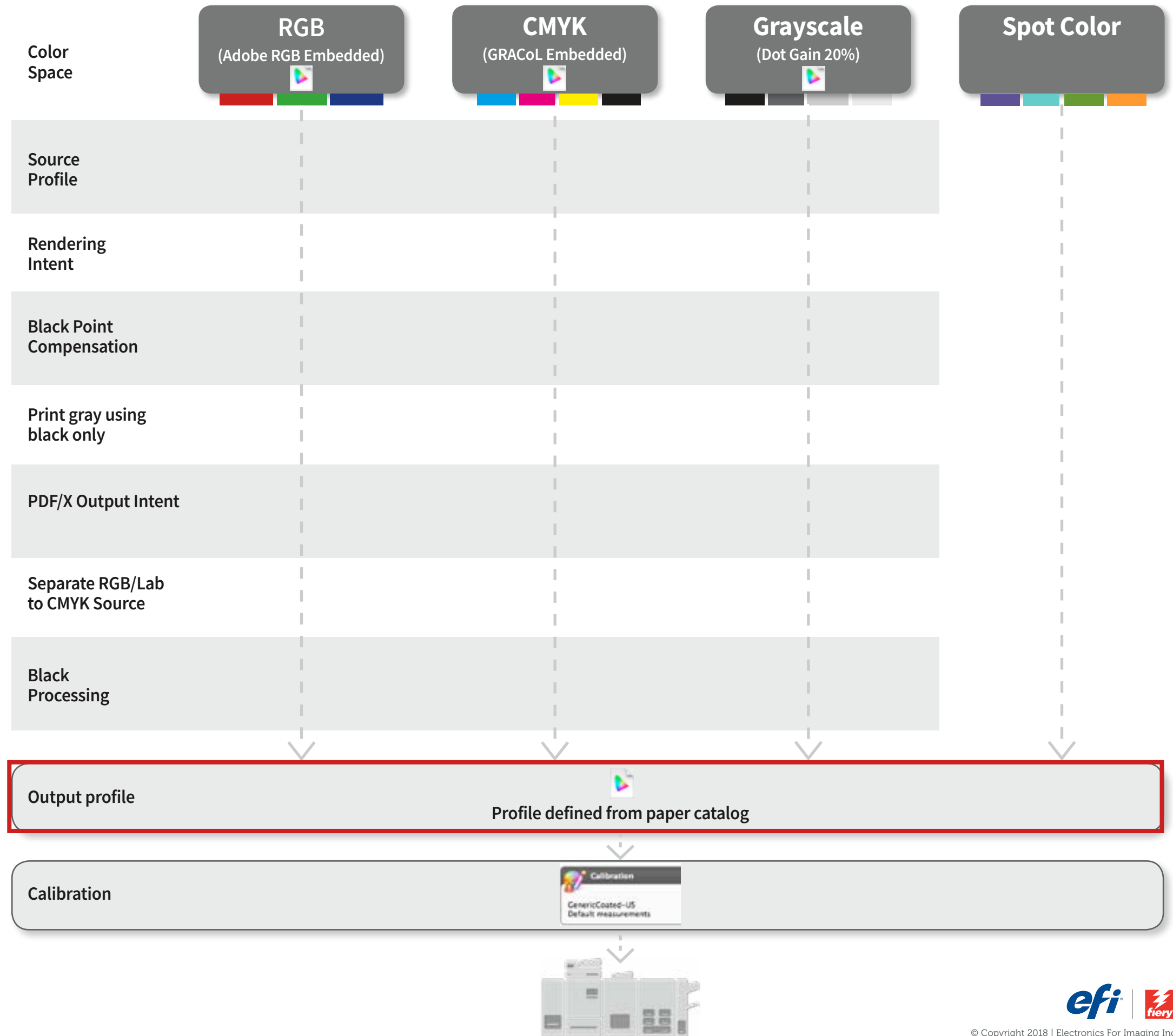
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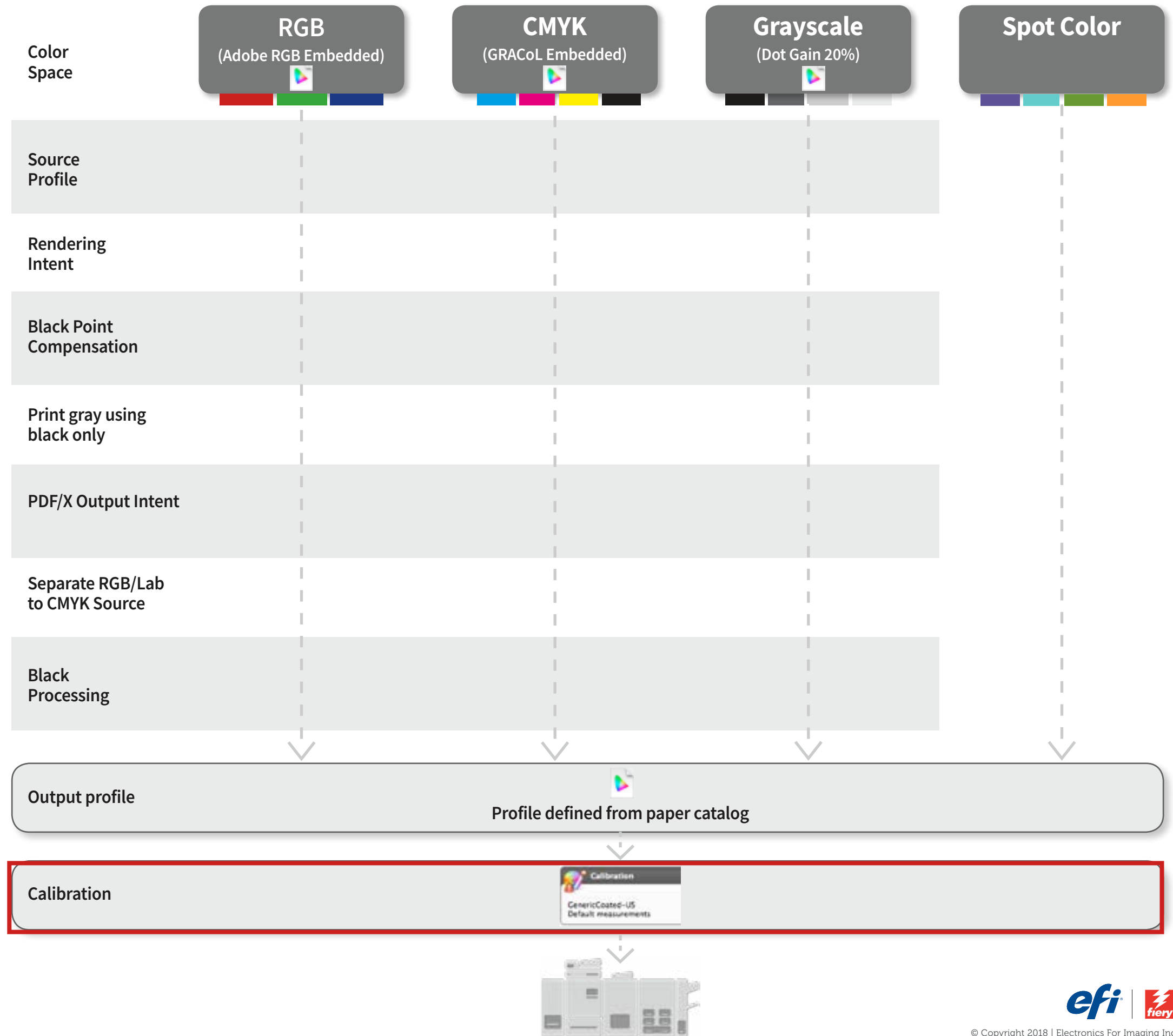
Fiery server output profile selection



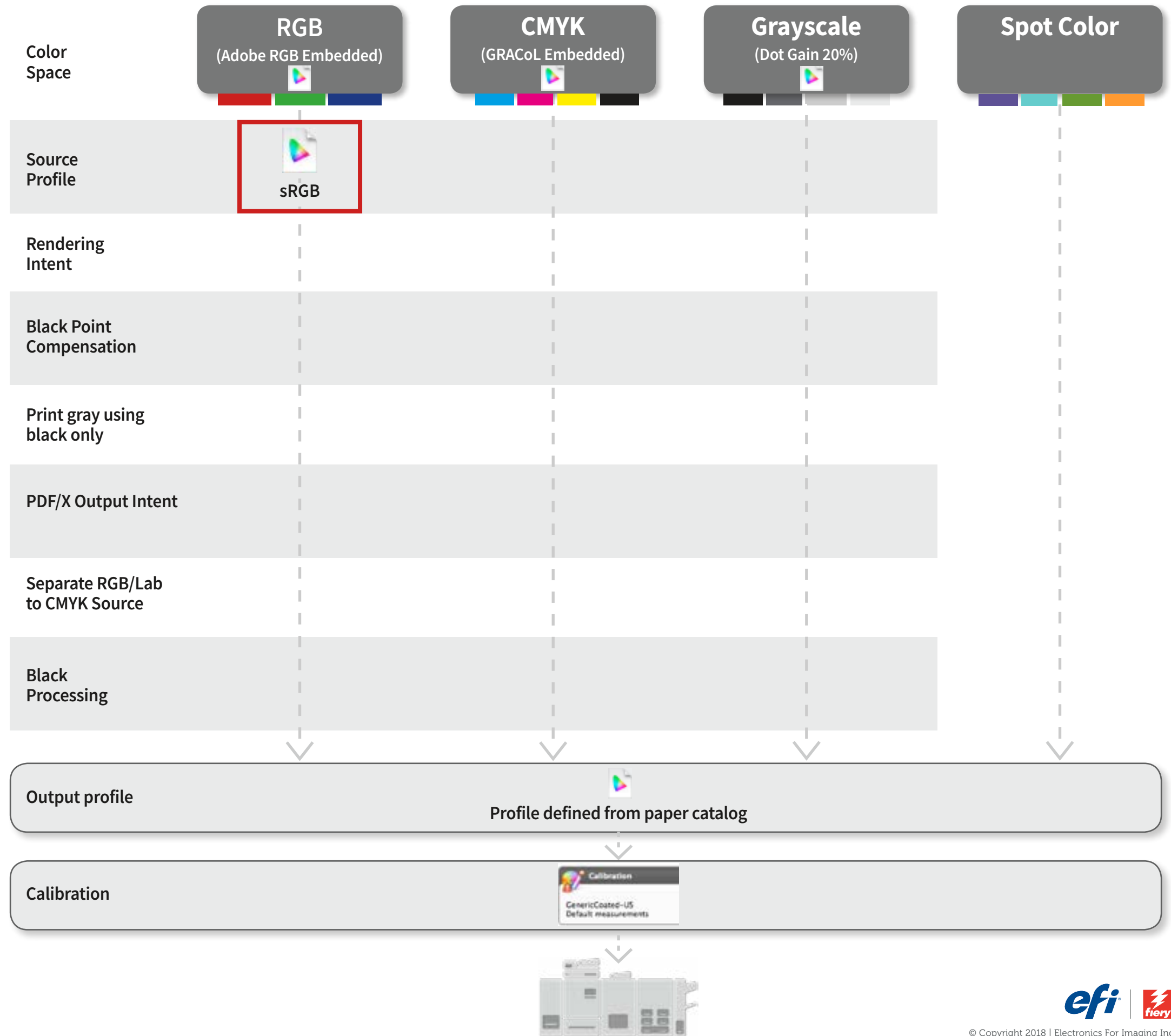
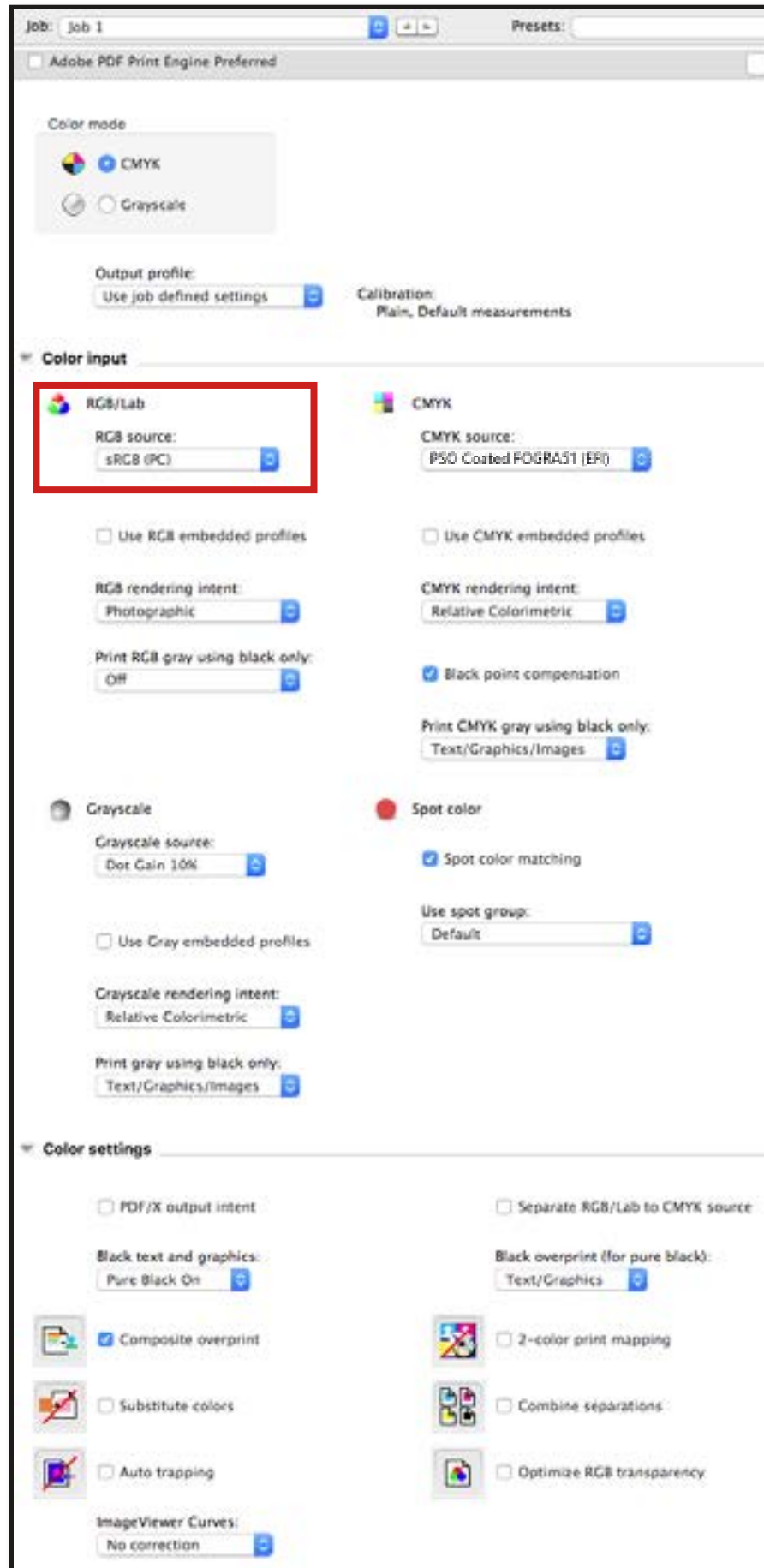
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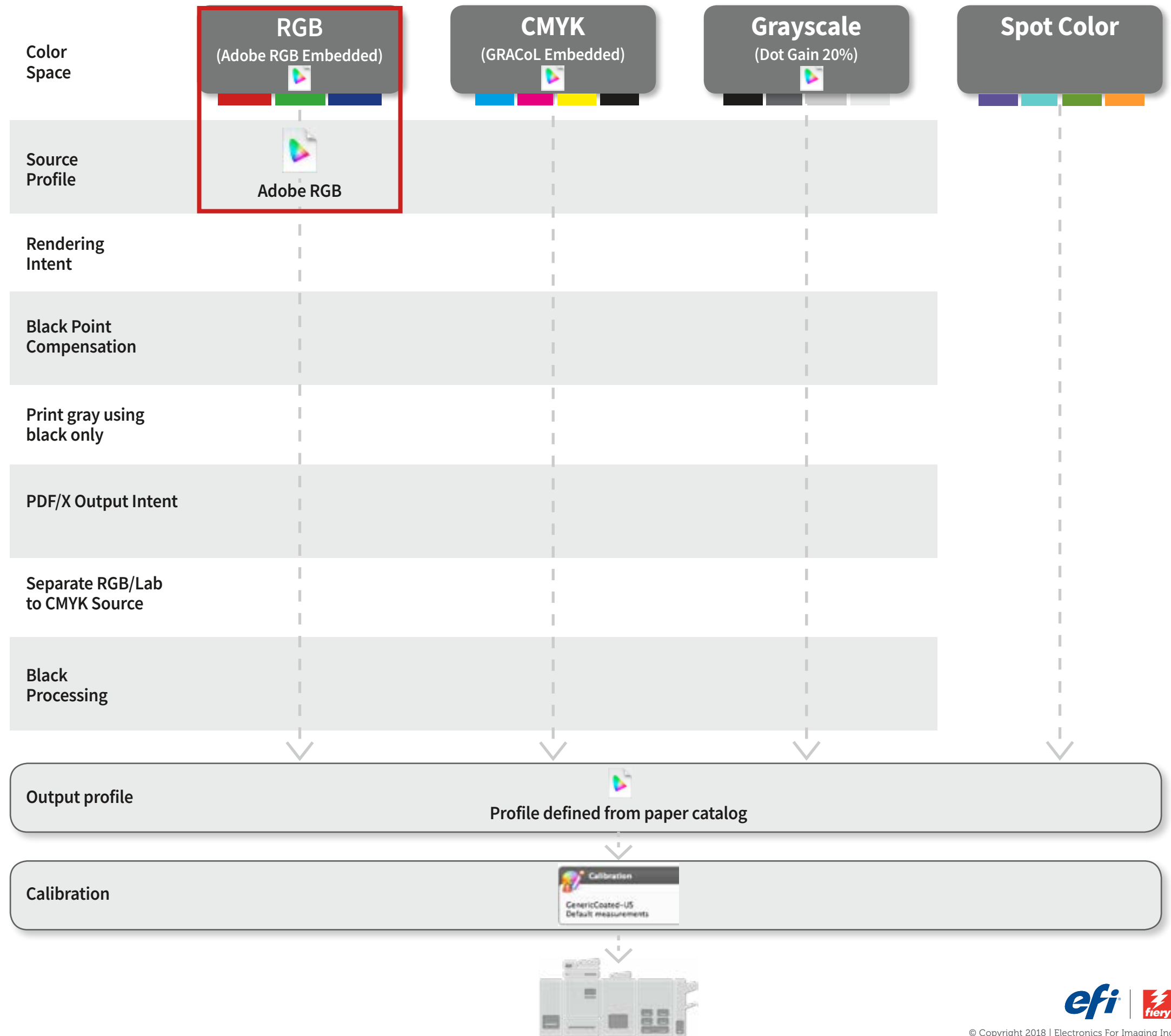
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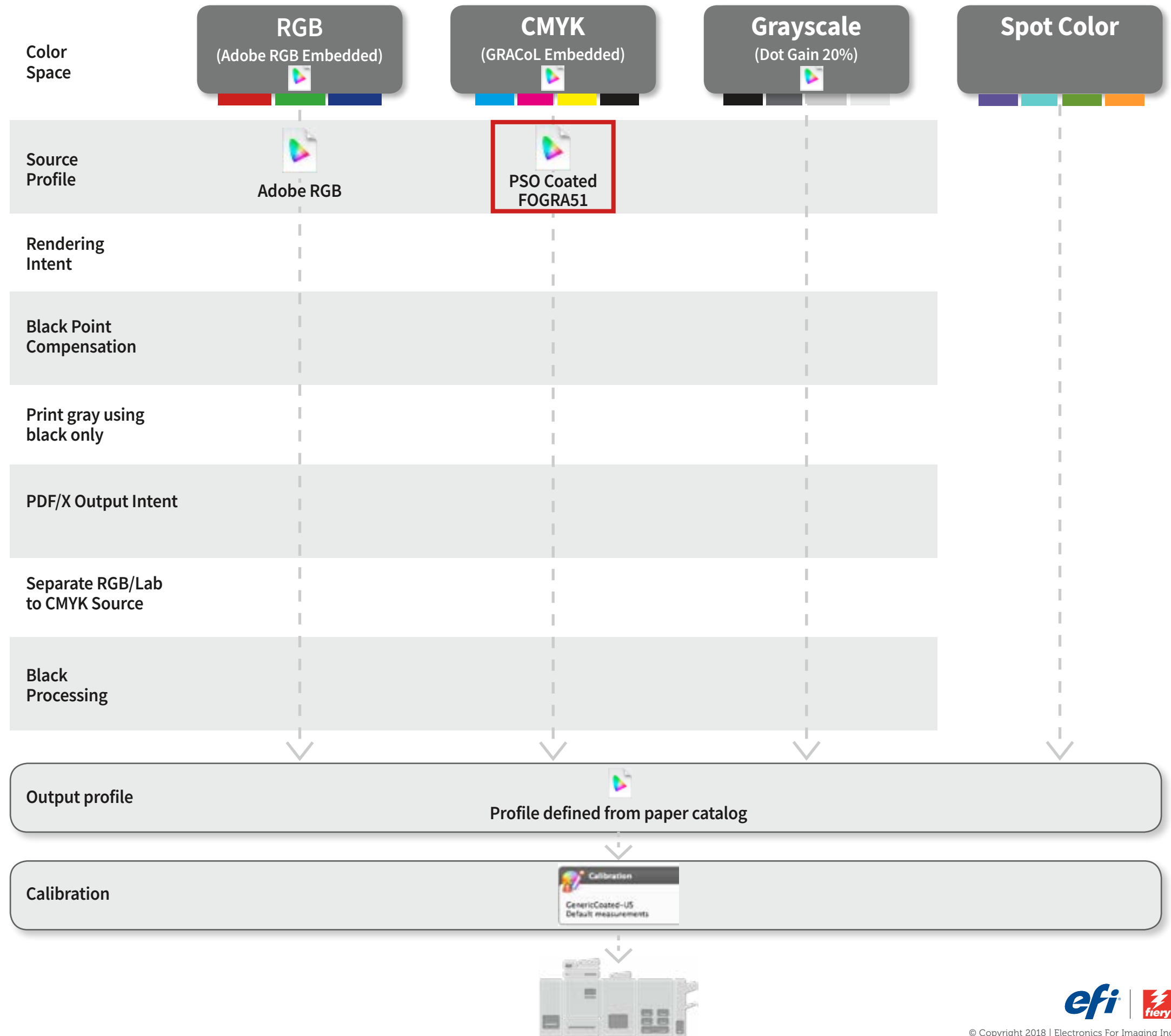
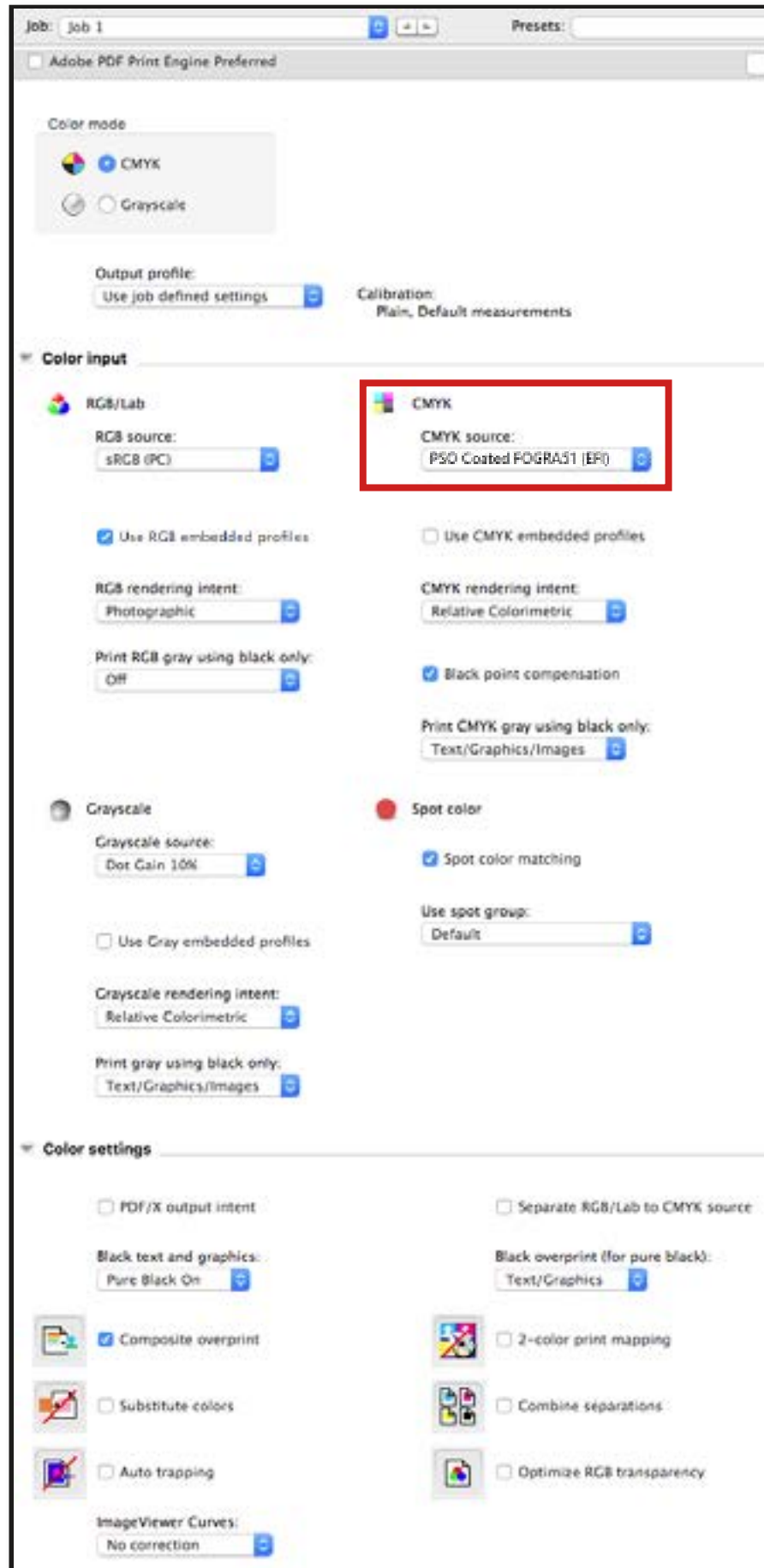
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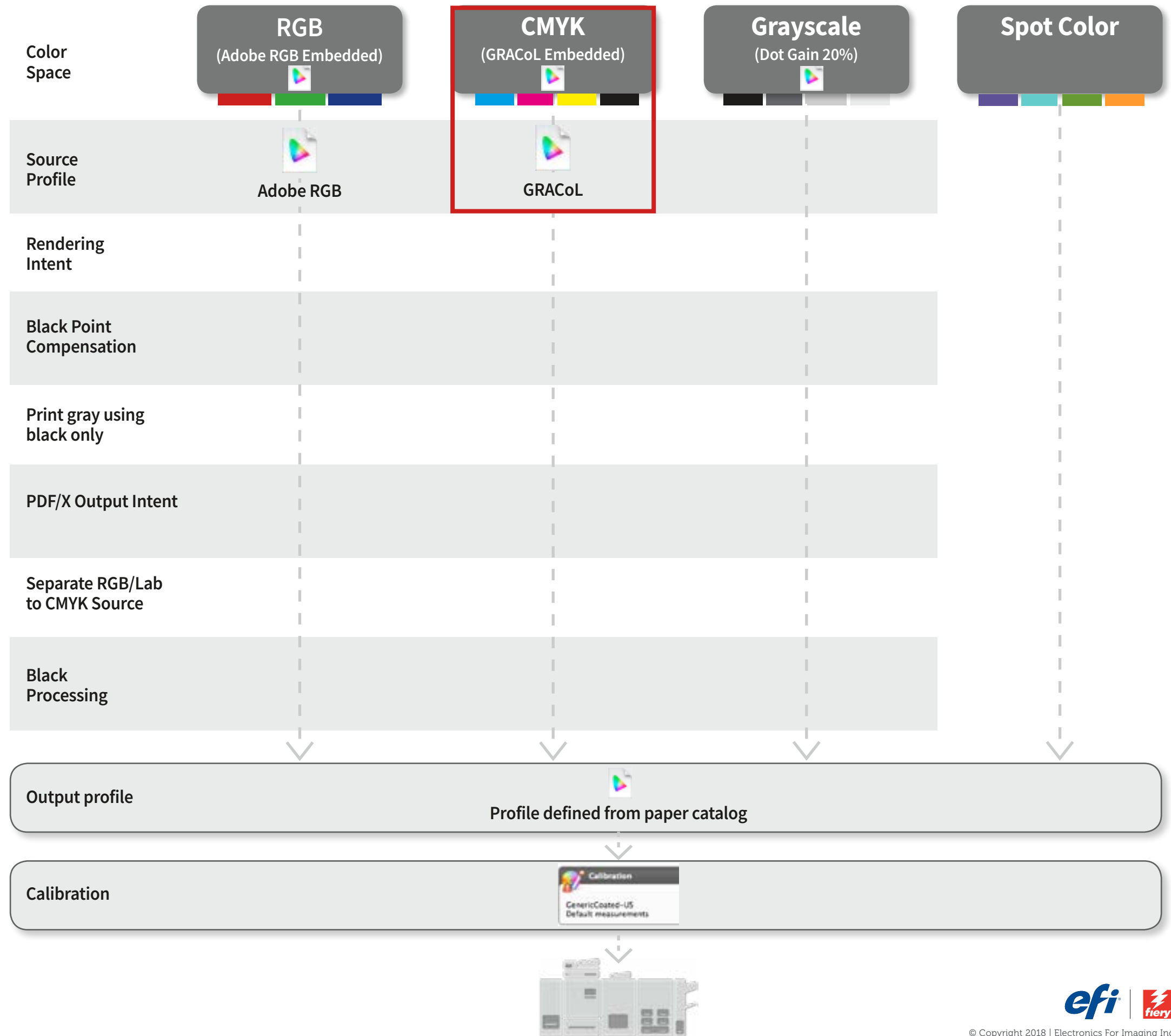
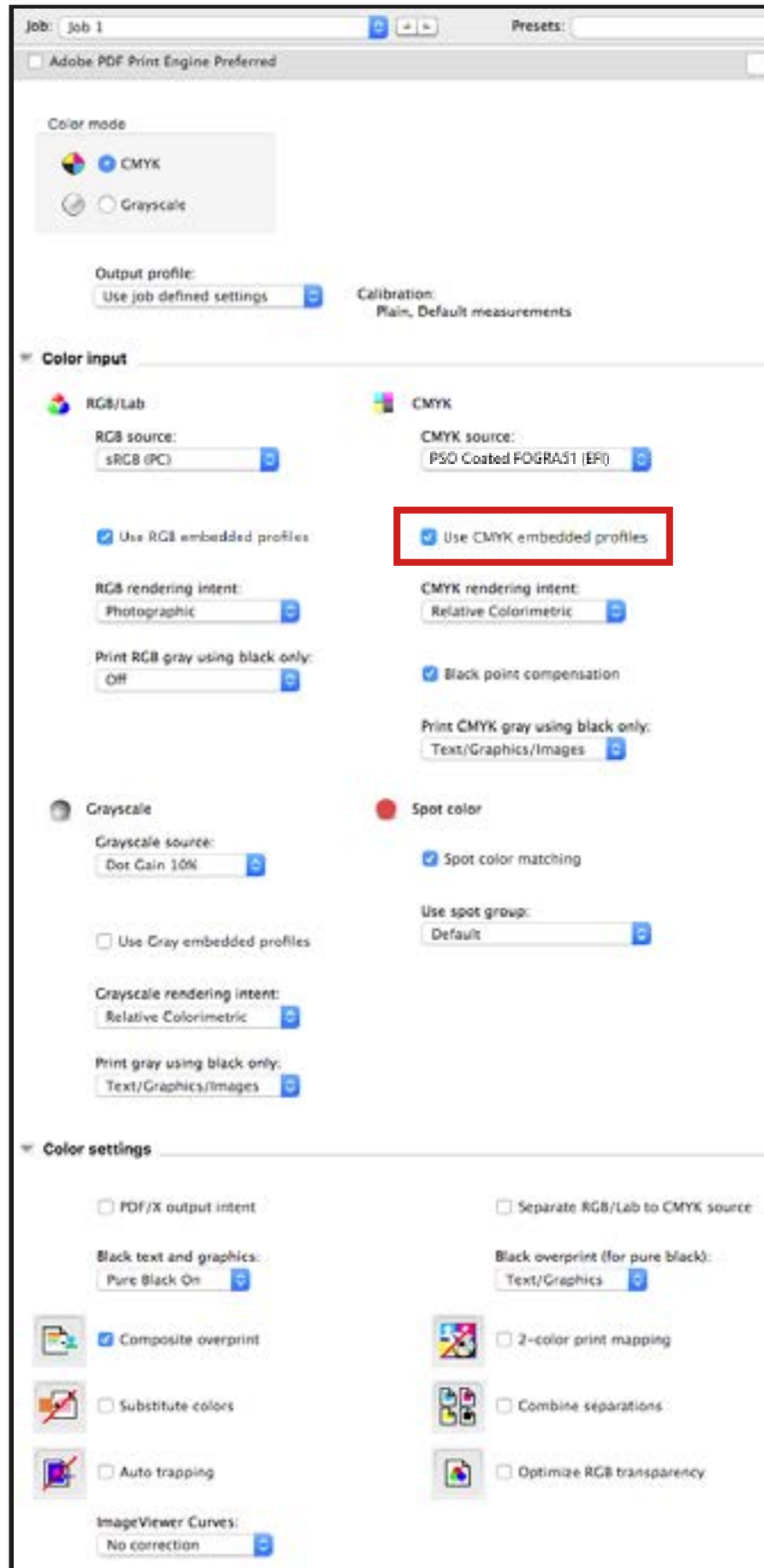
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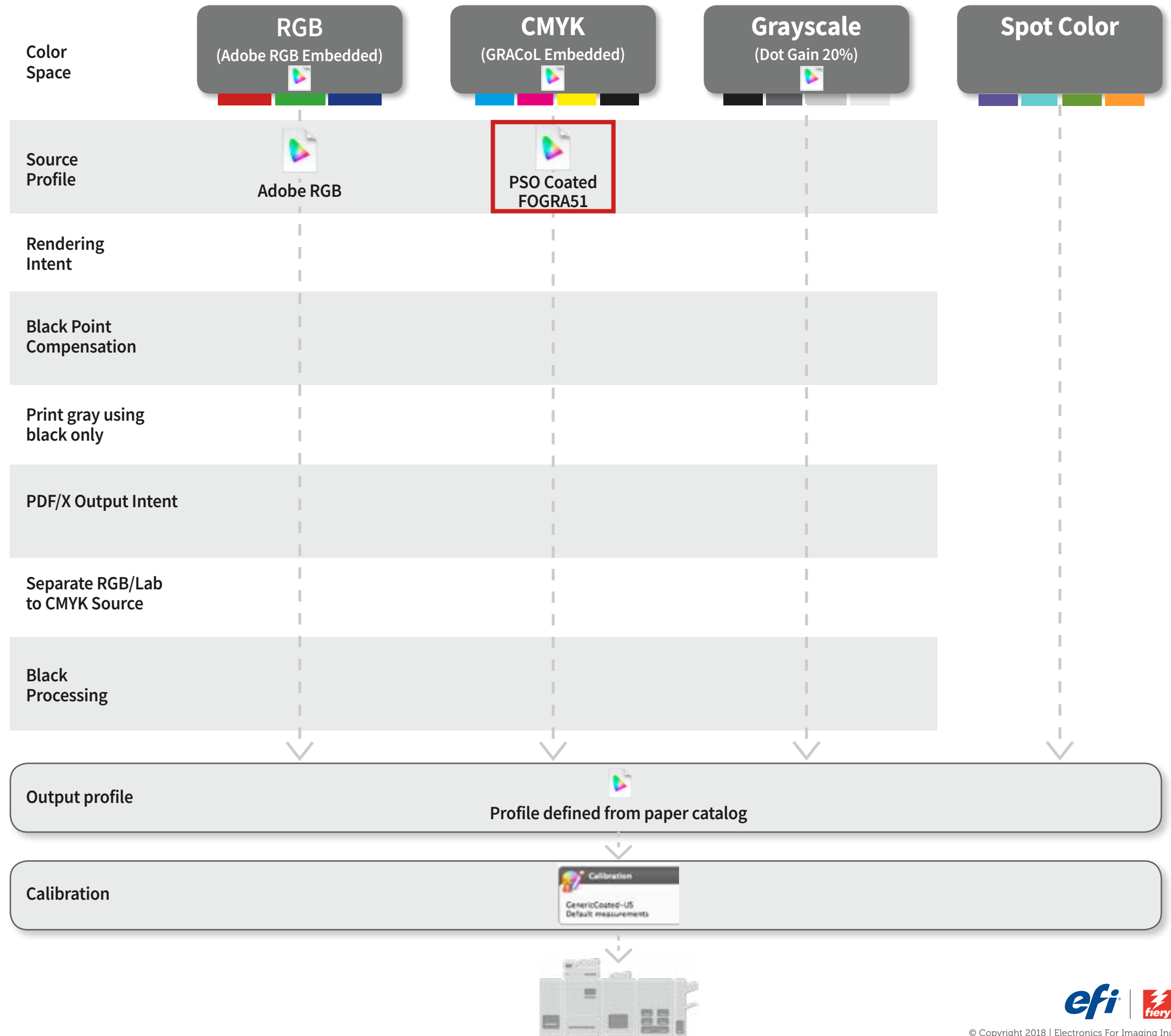
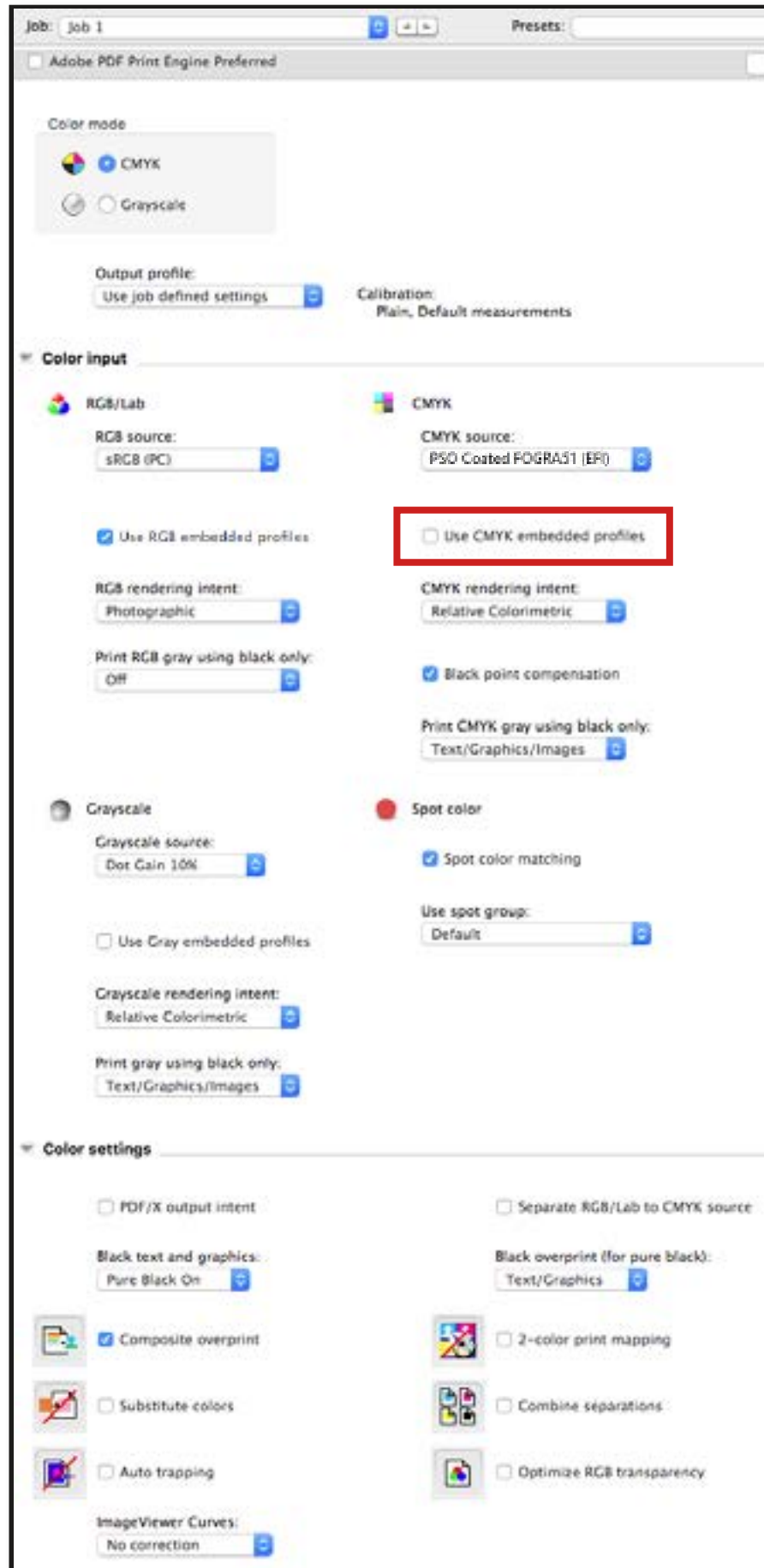
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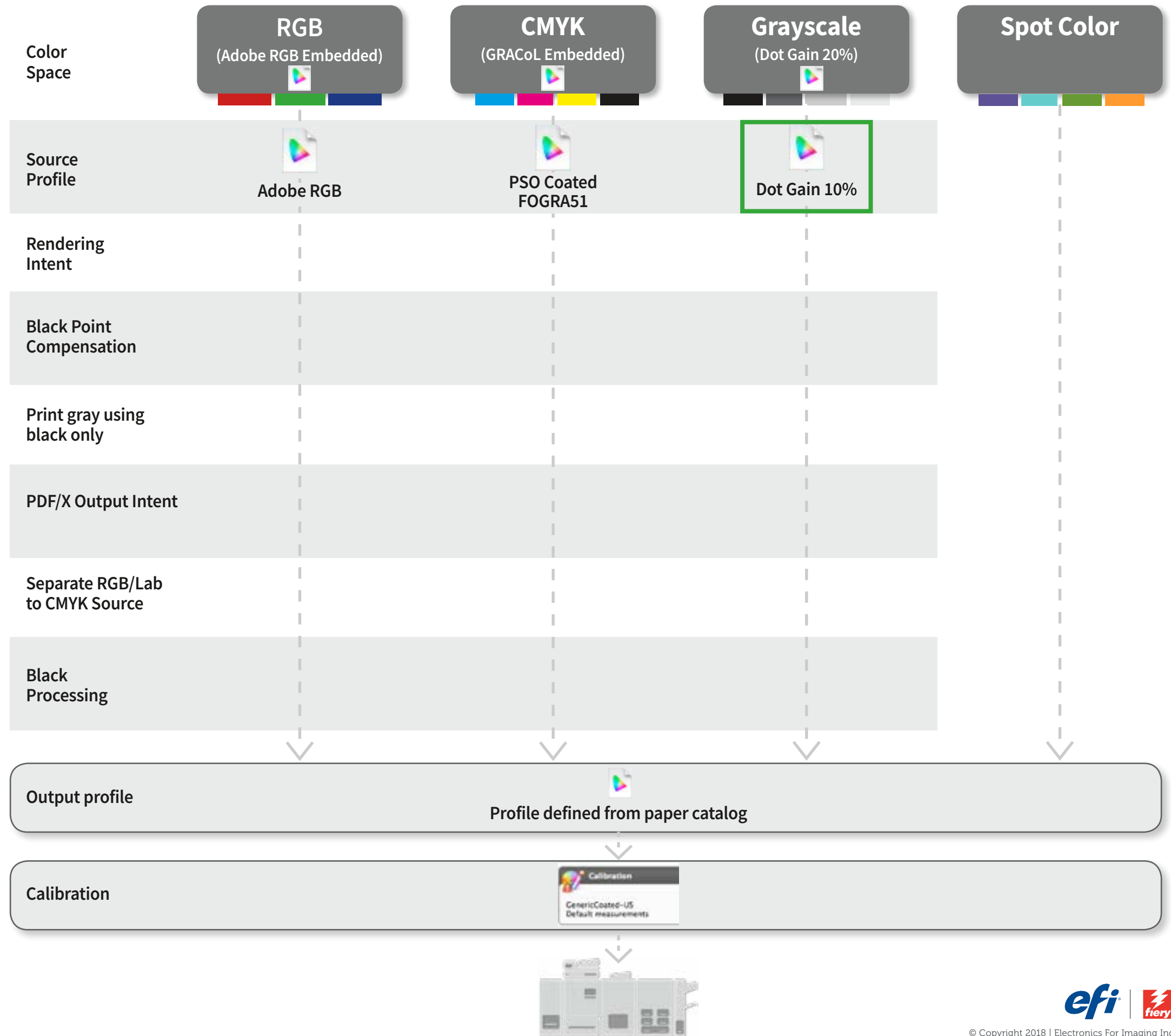
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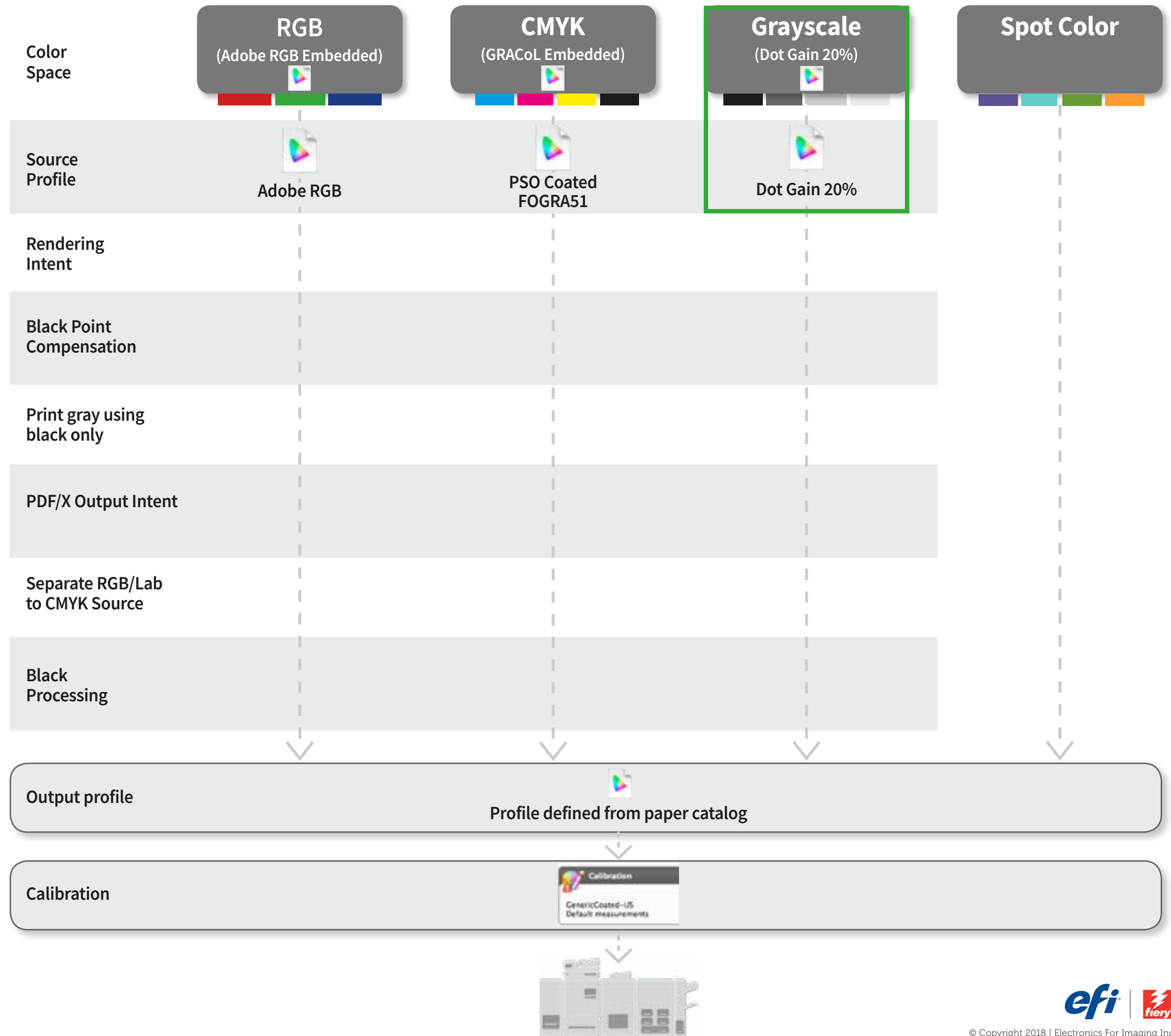
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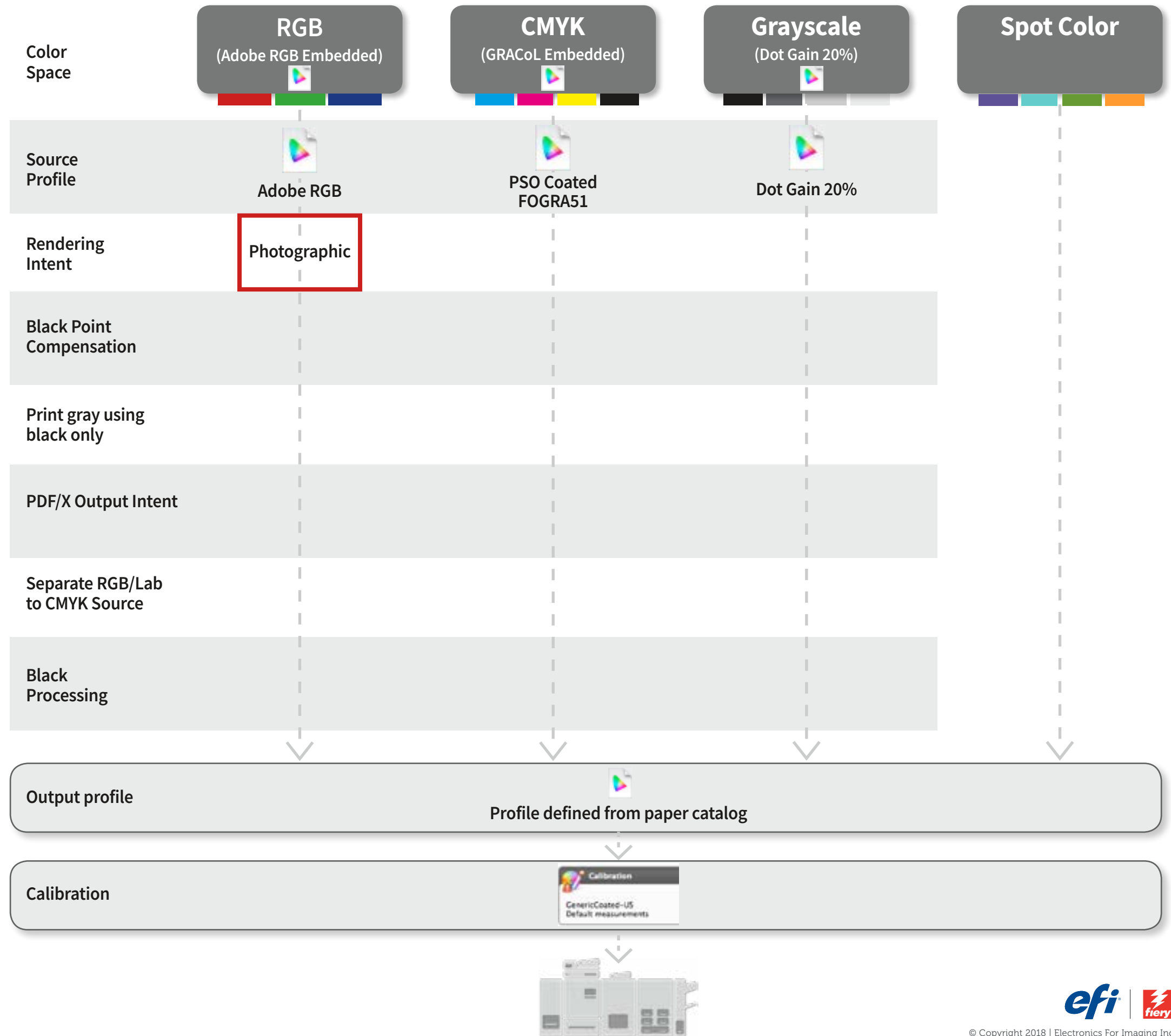
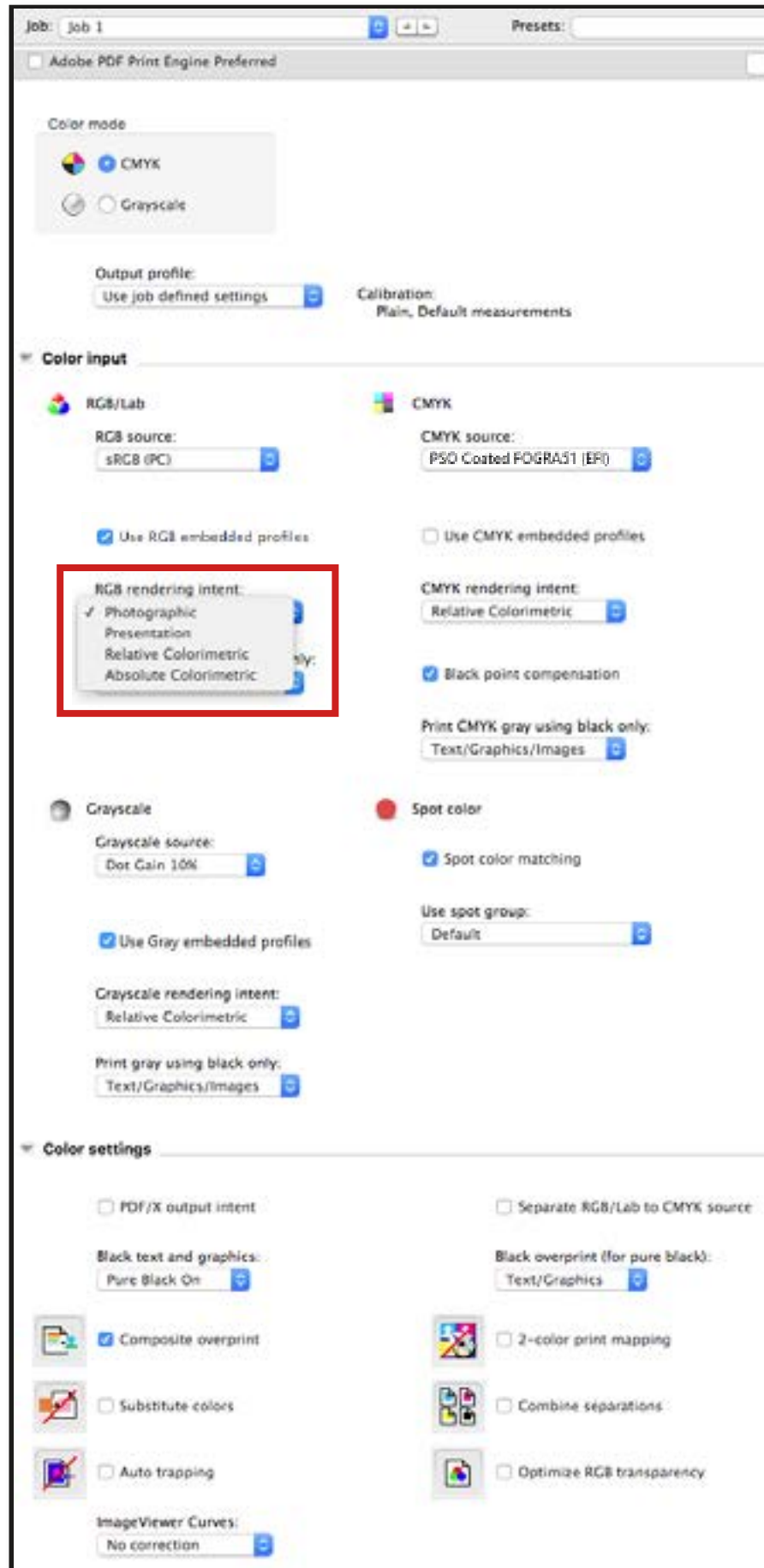
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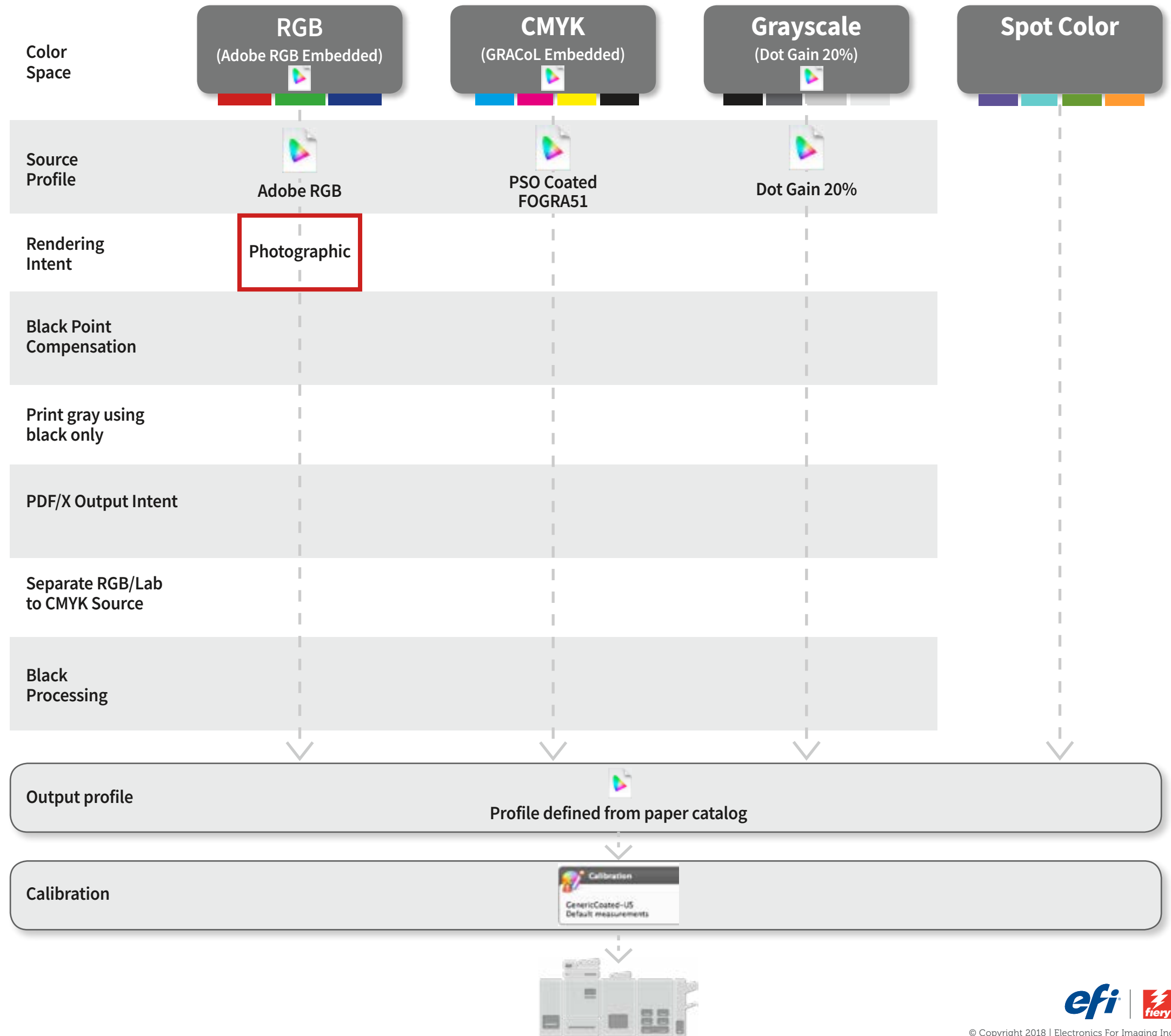
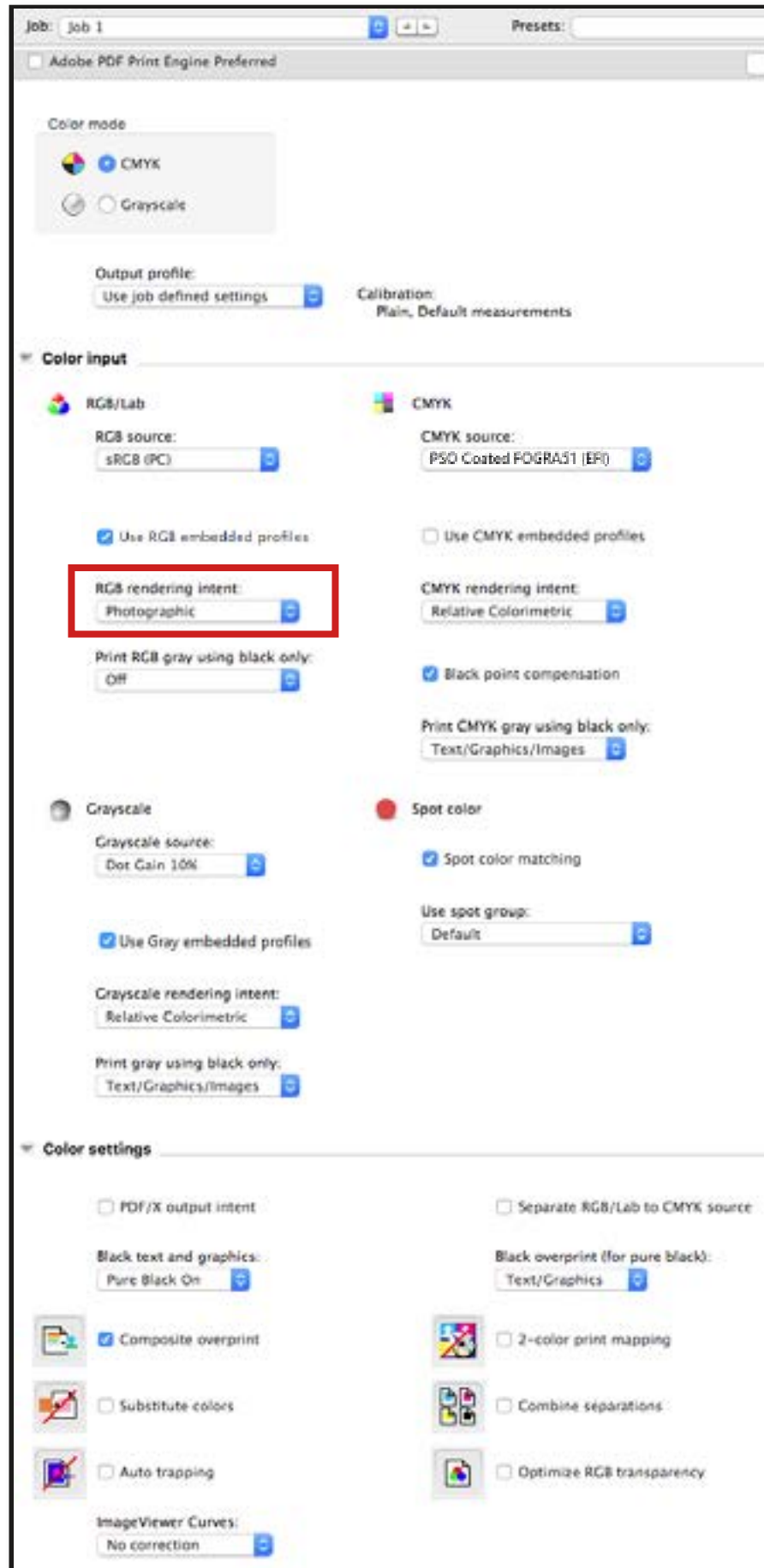
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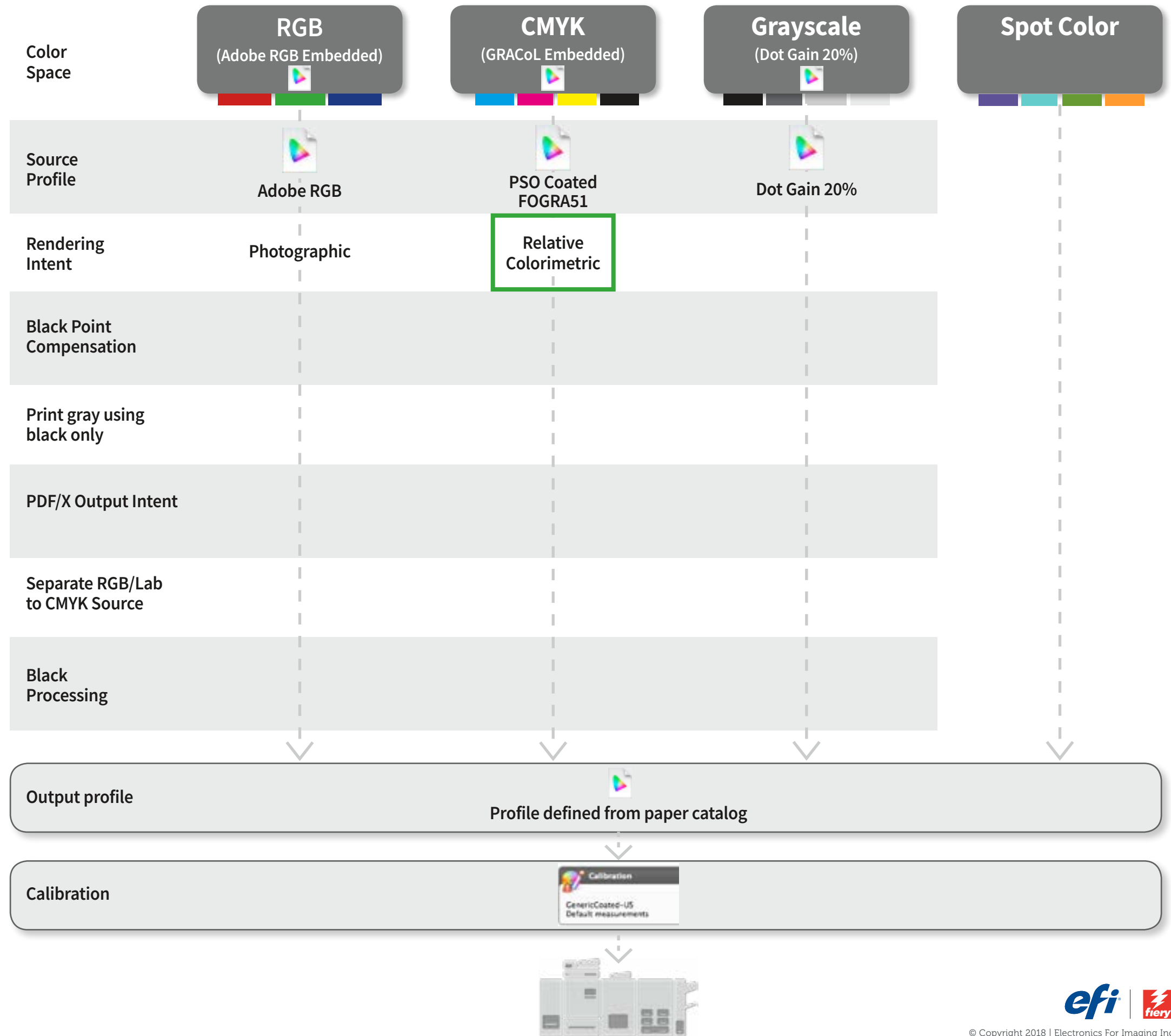
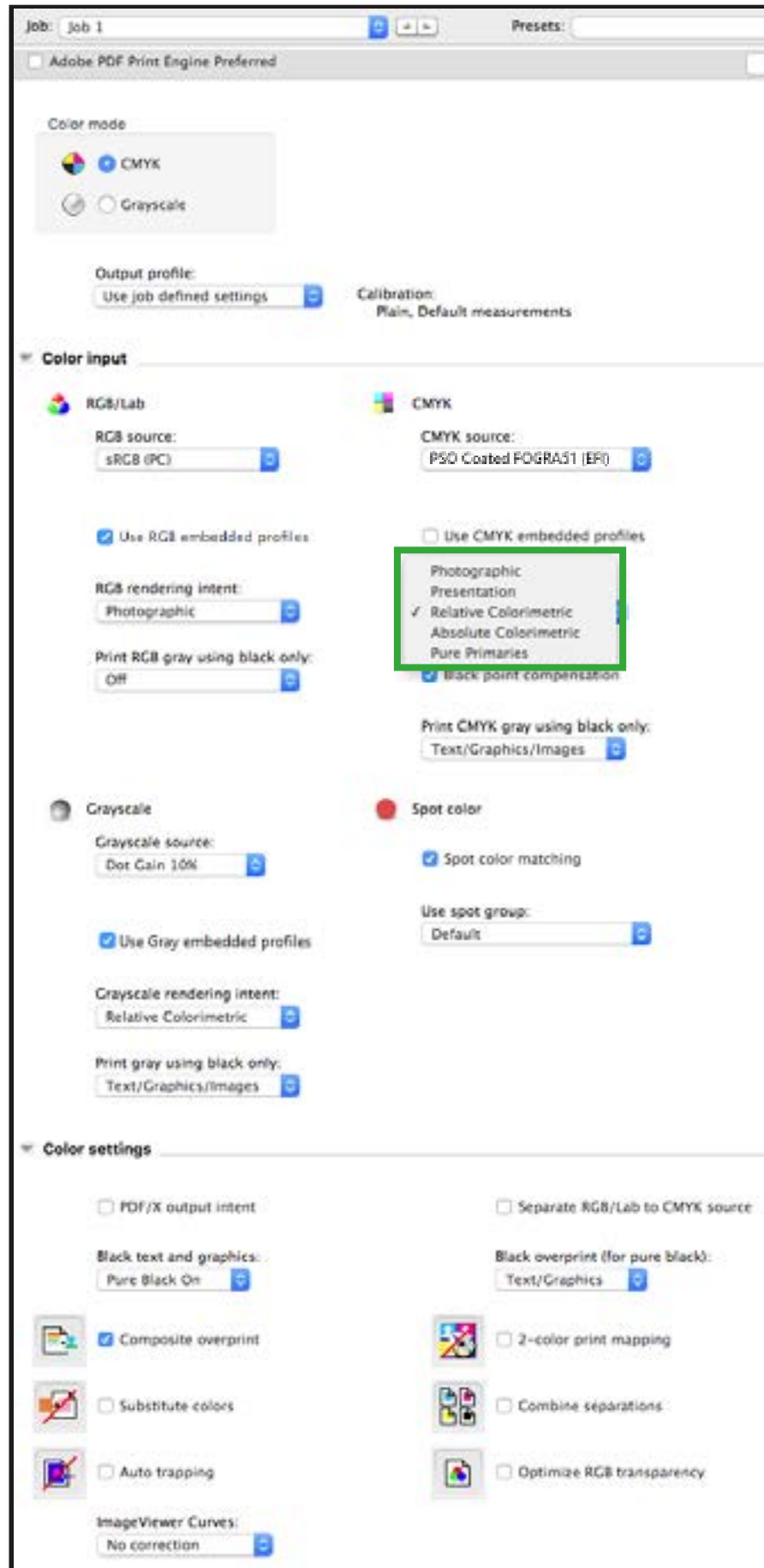
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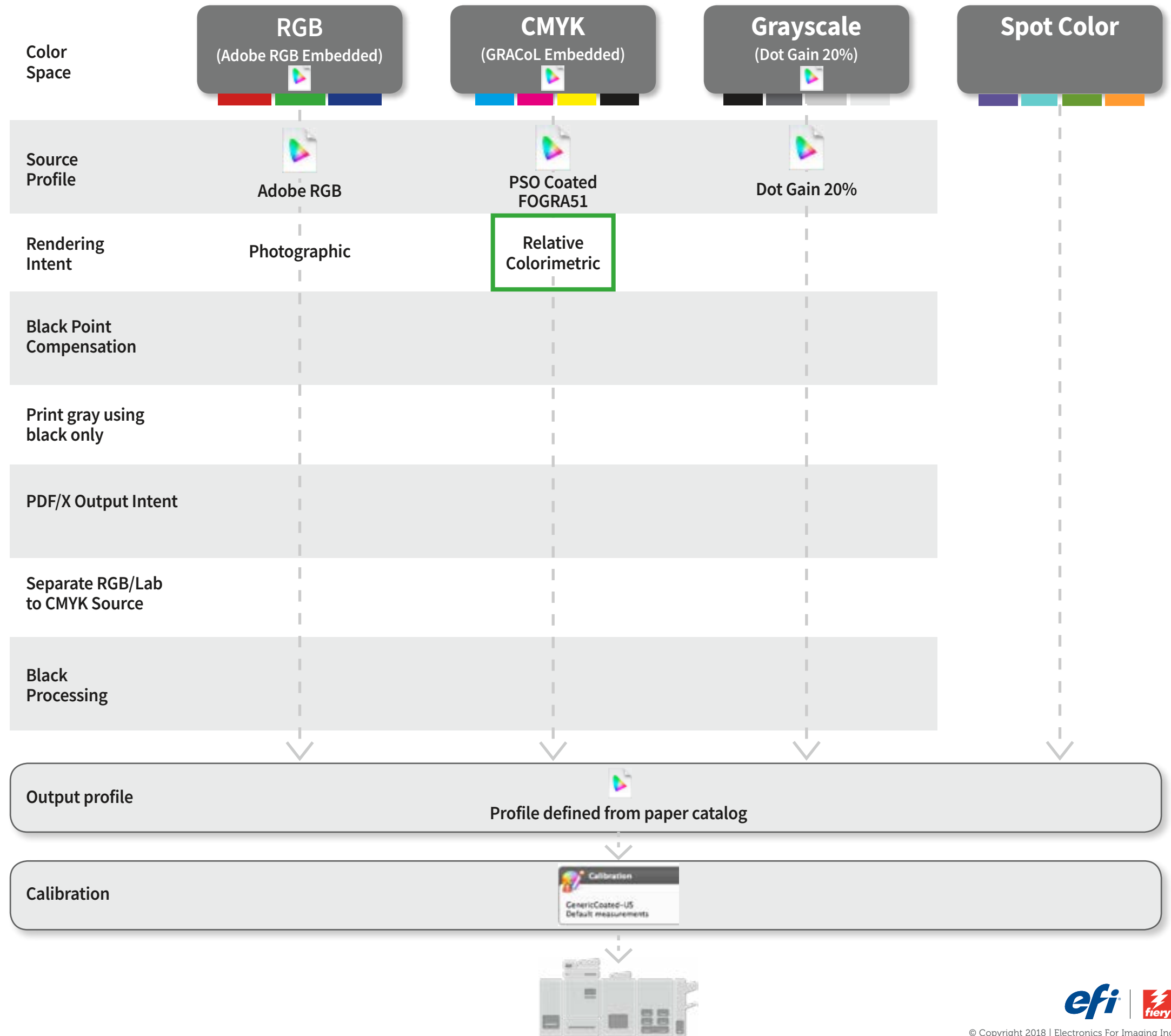
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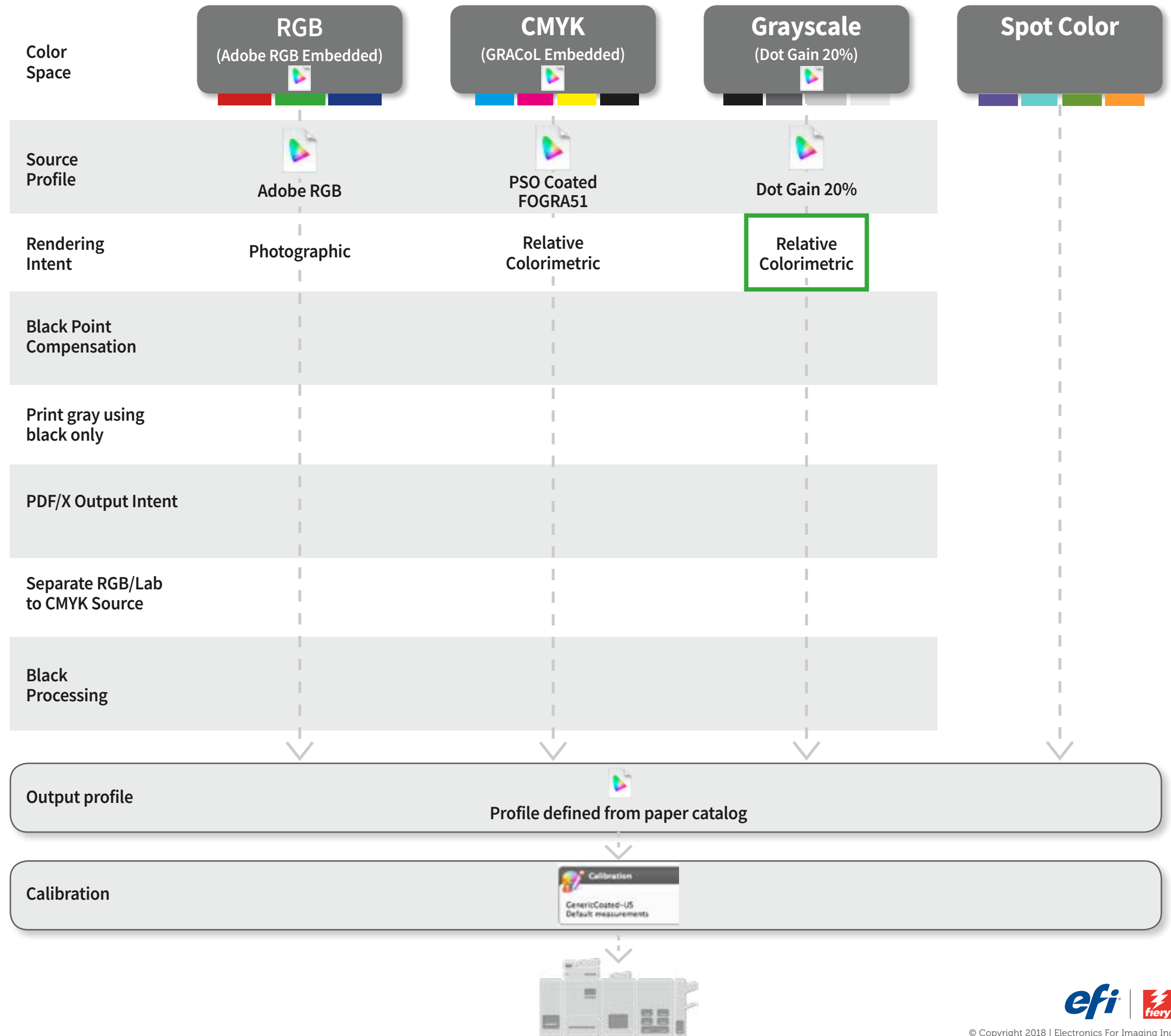
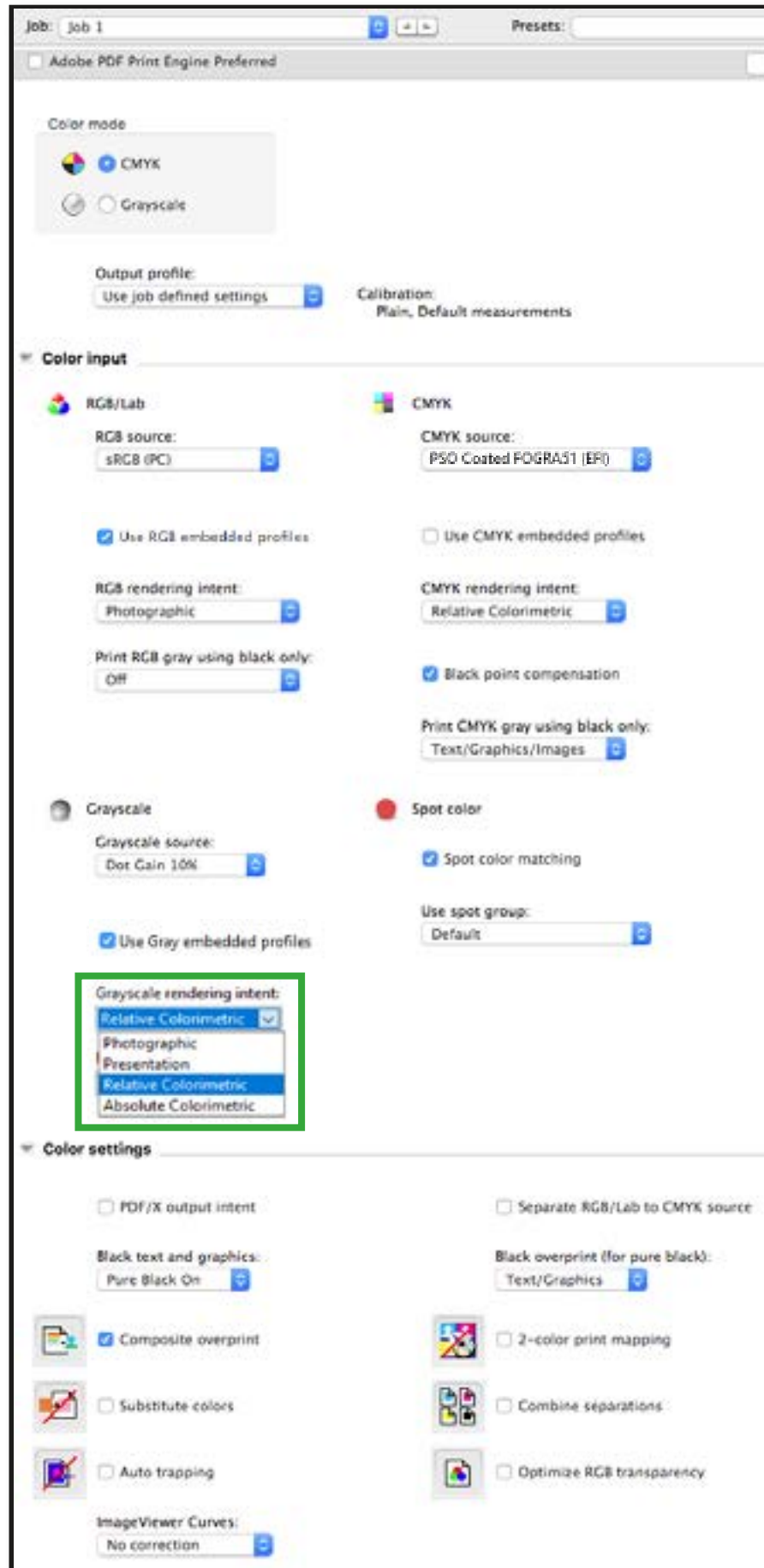
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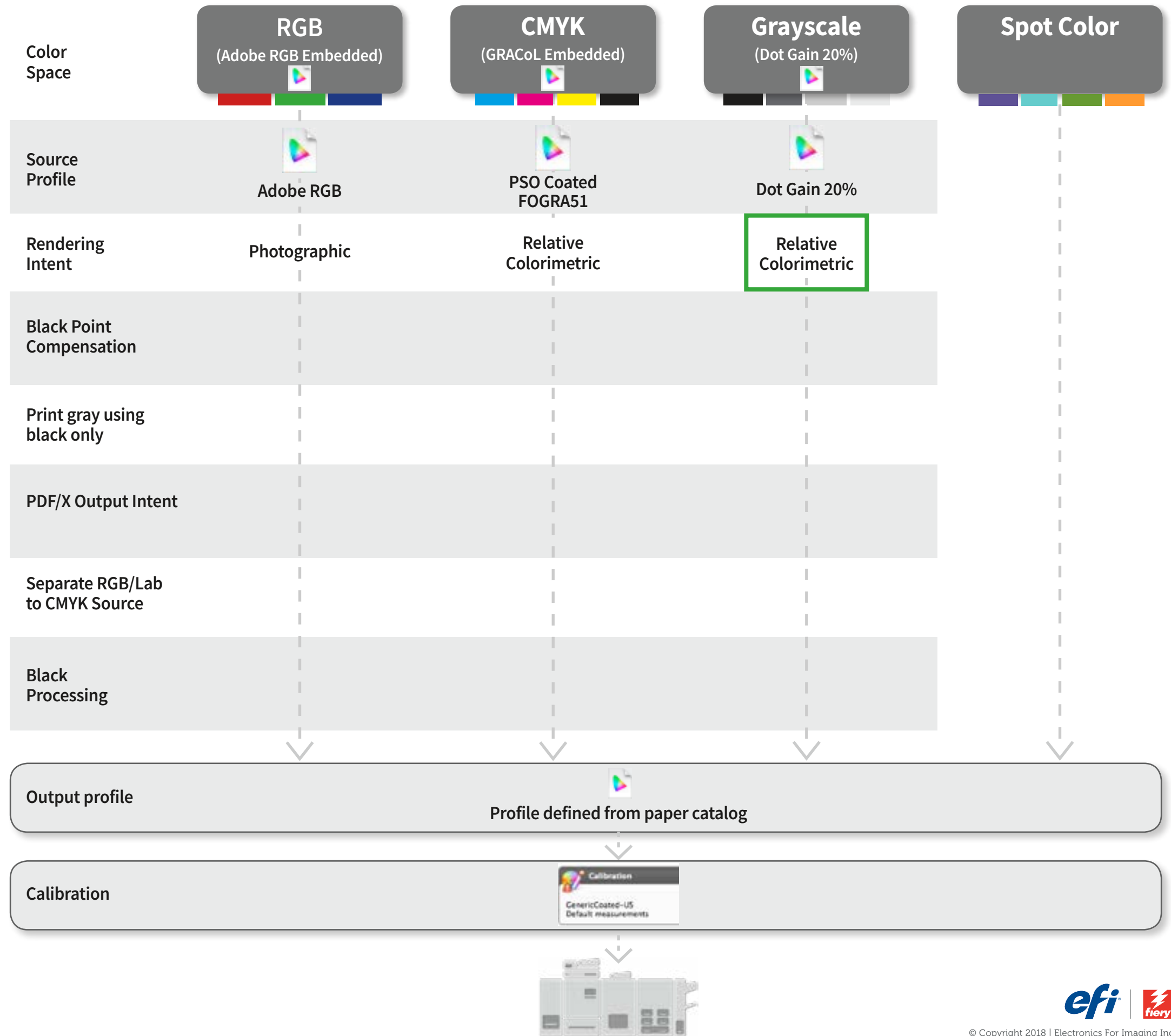
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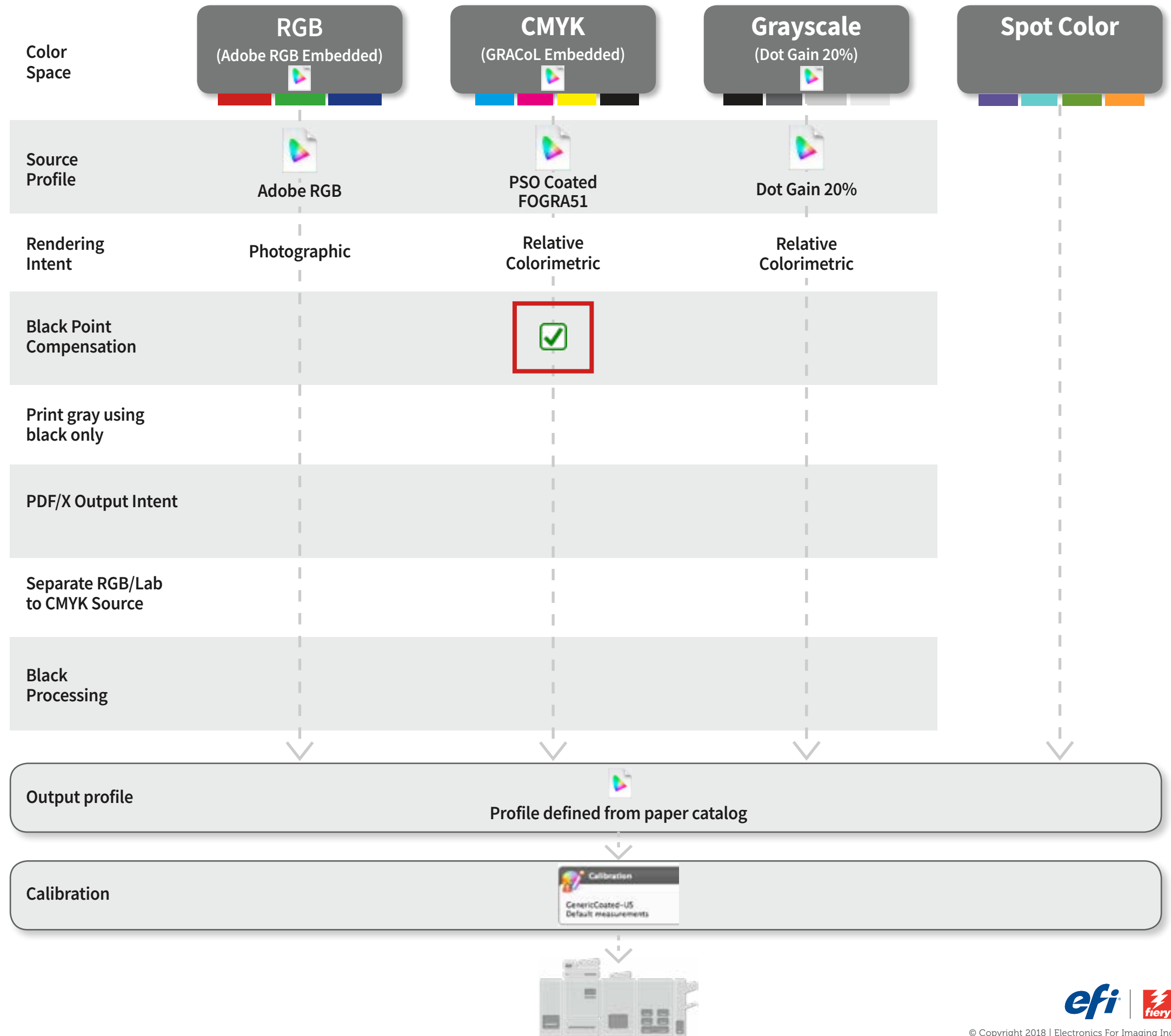
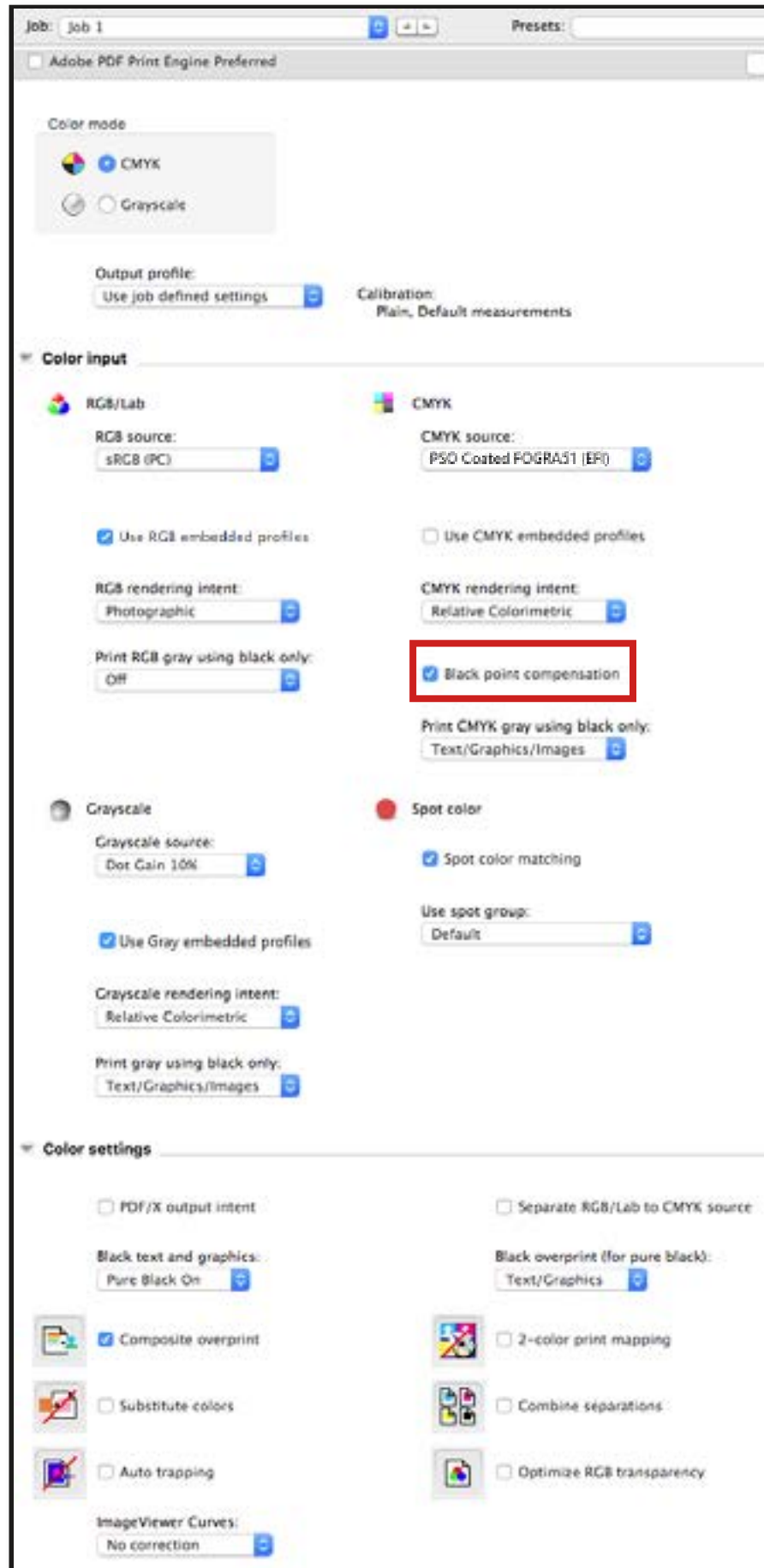
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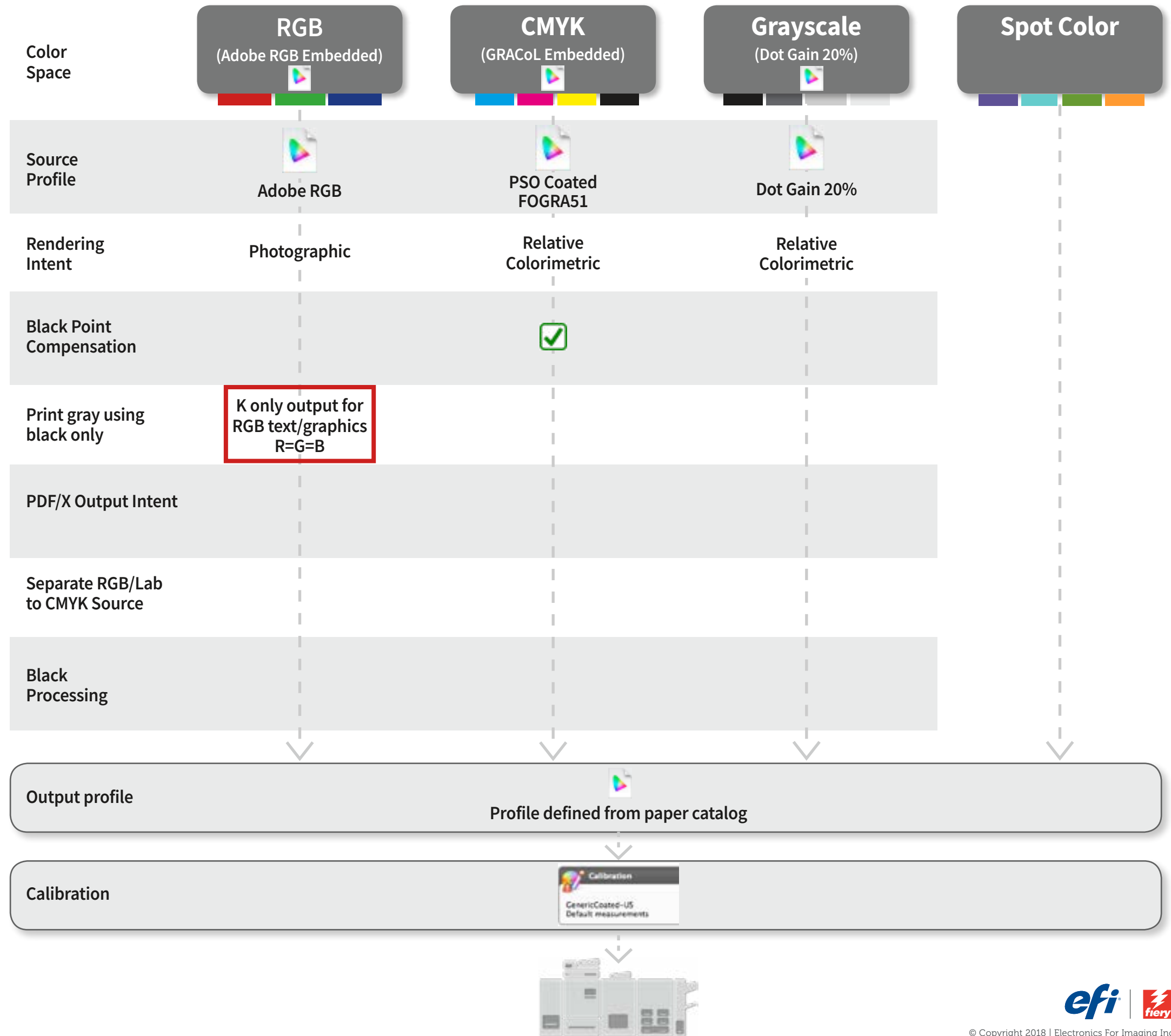
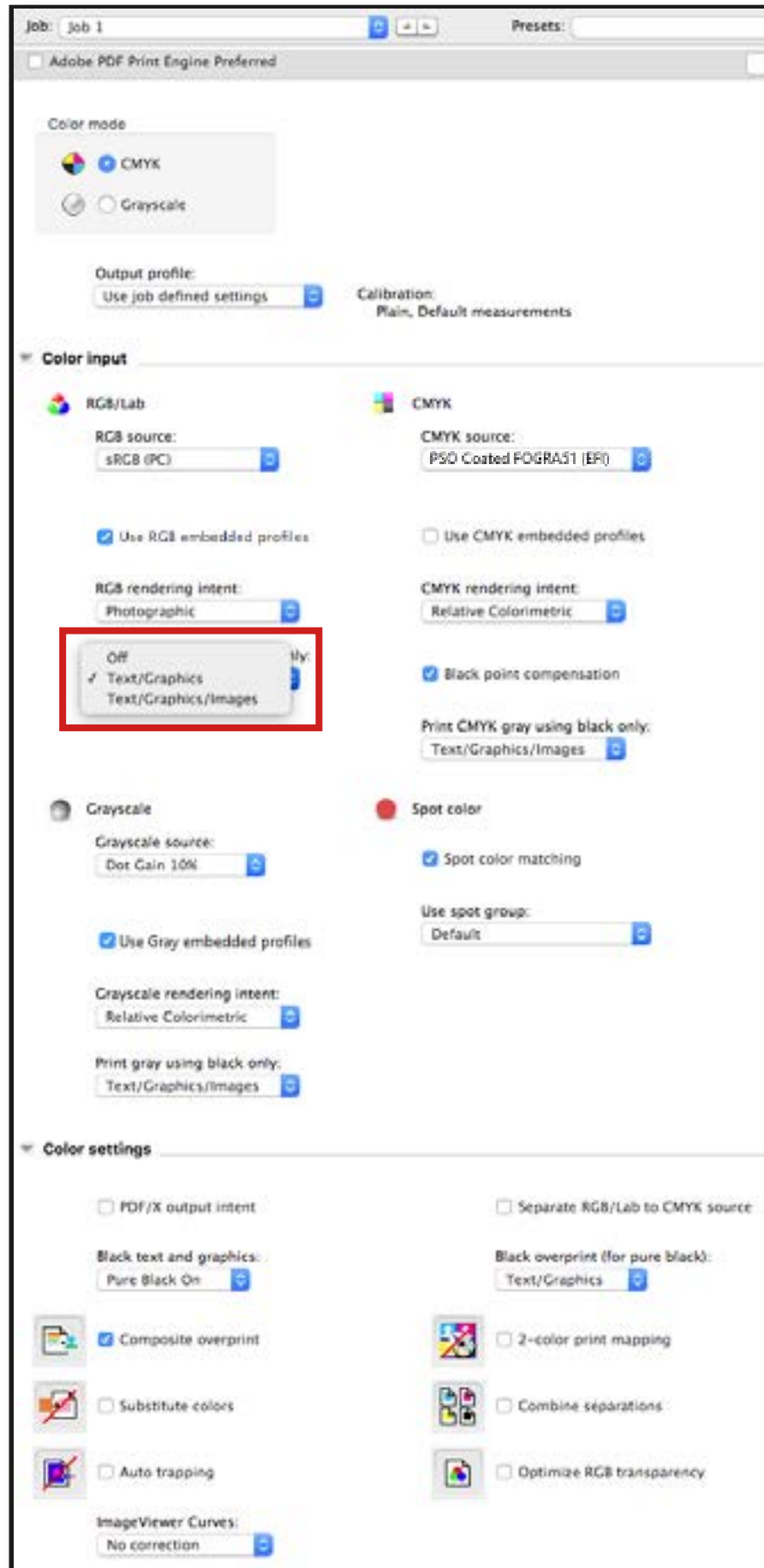
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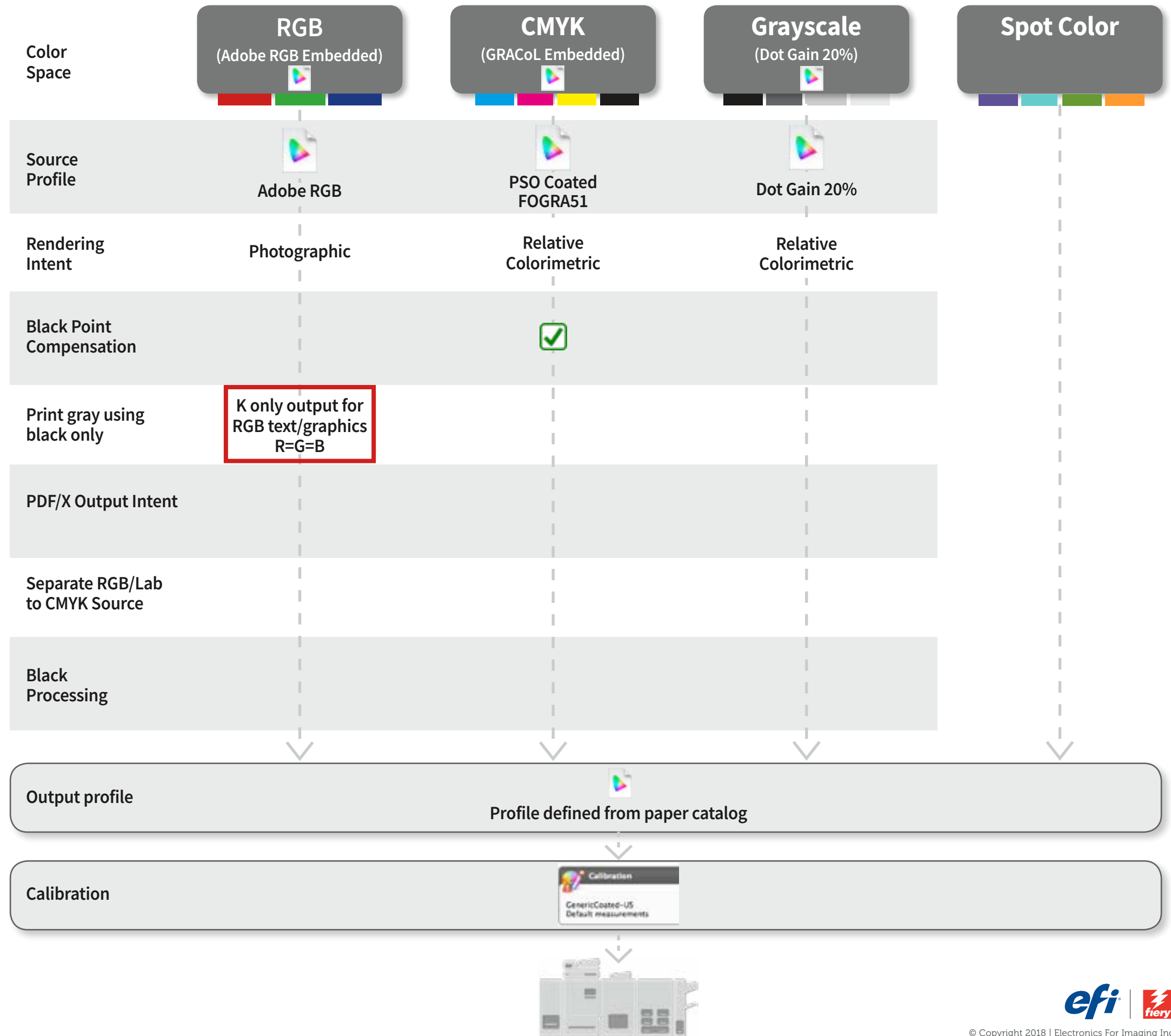
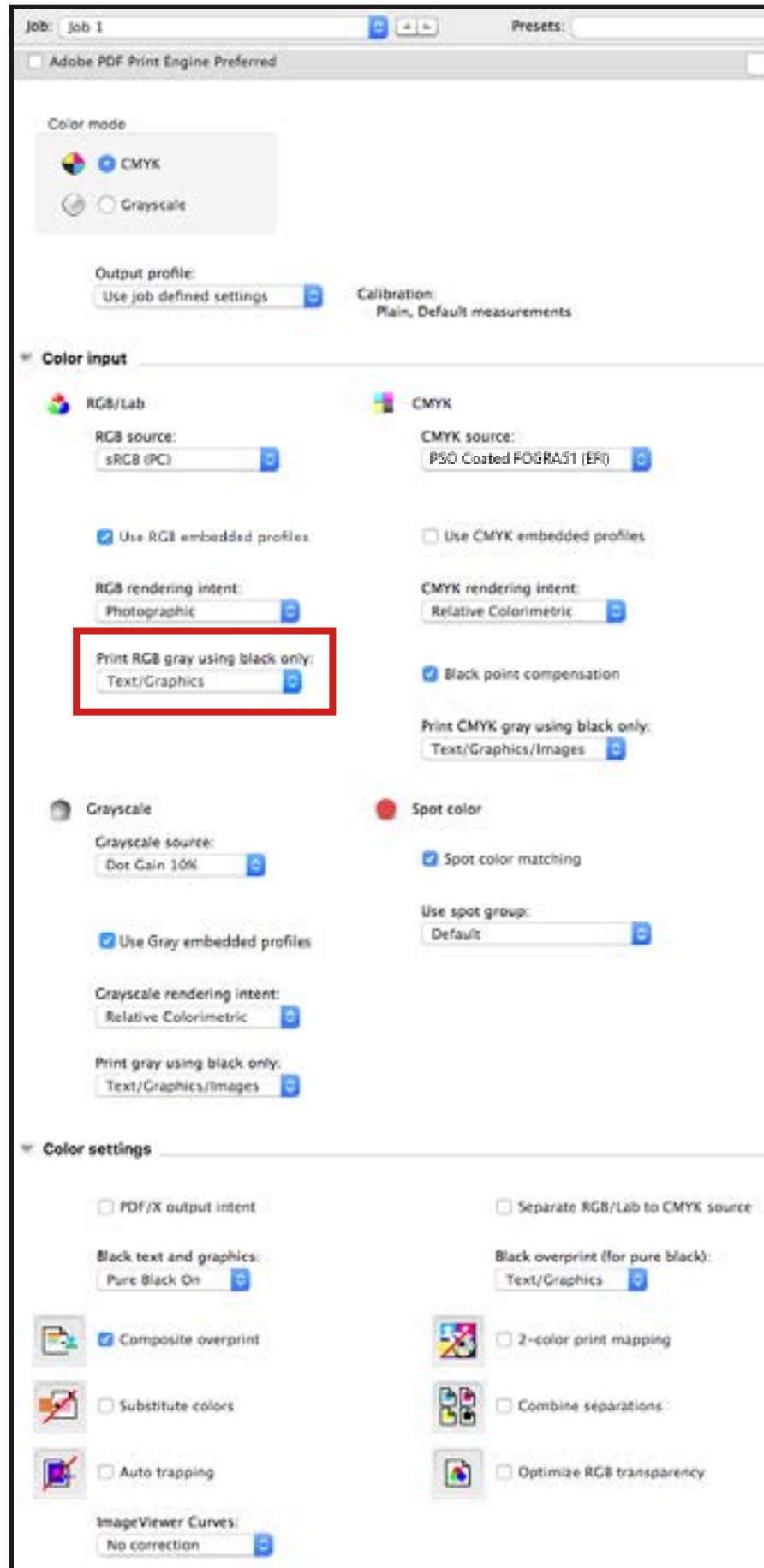
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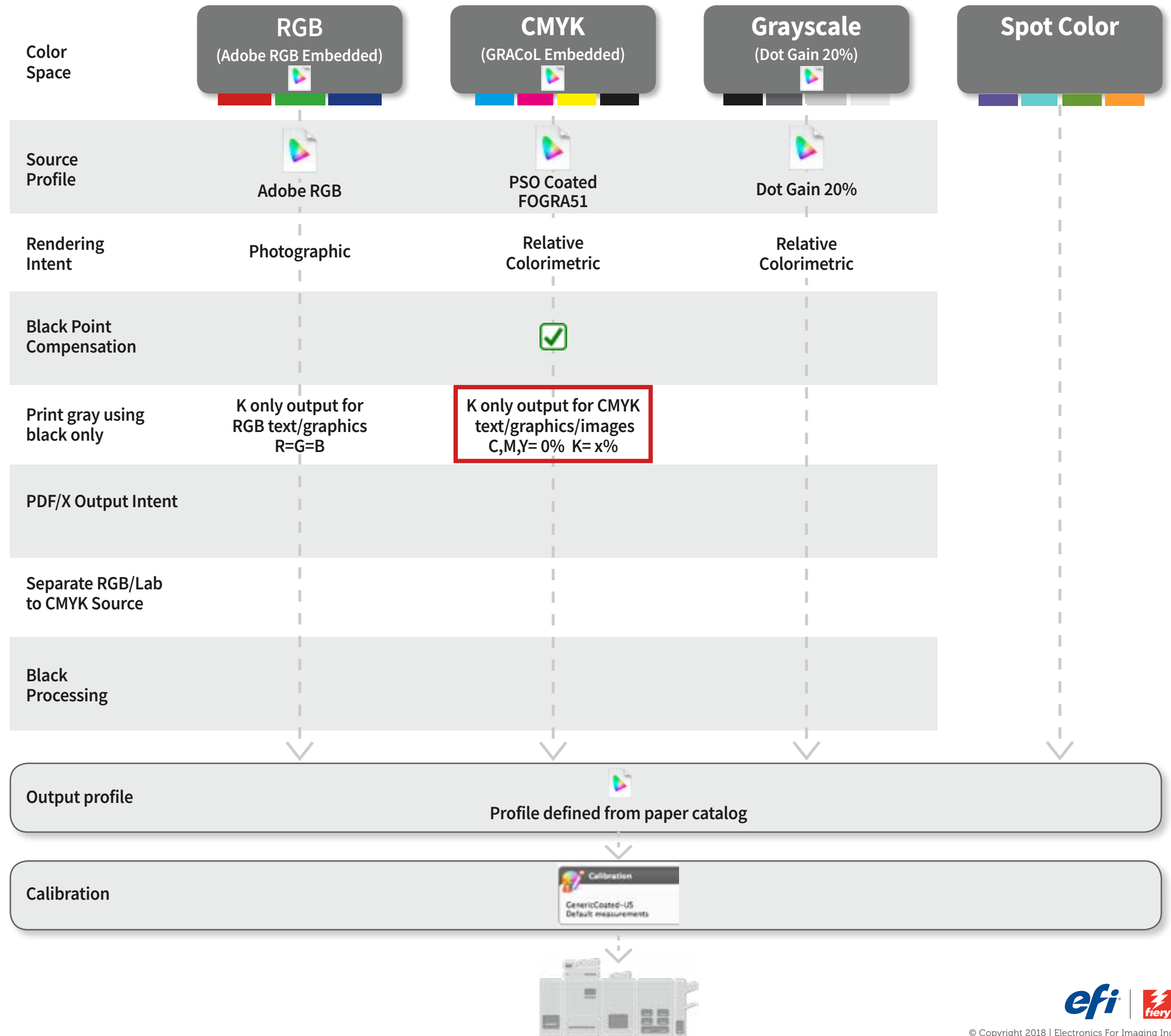
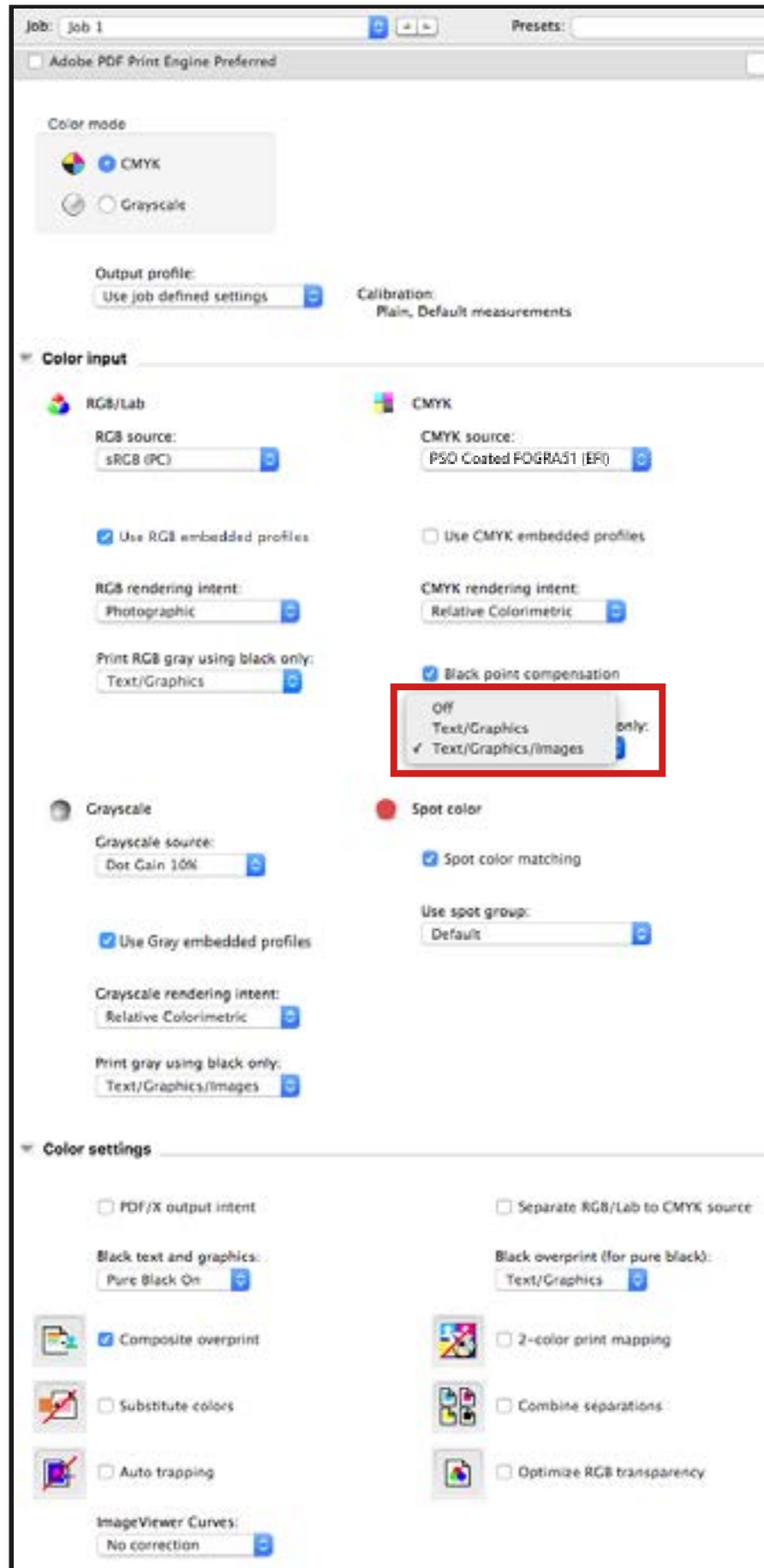
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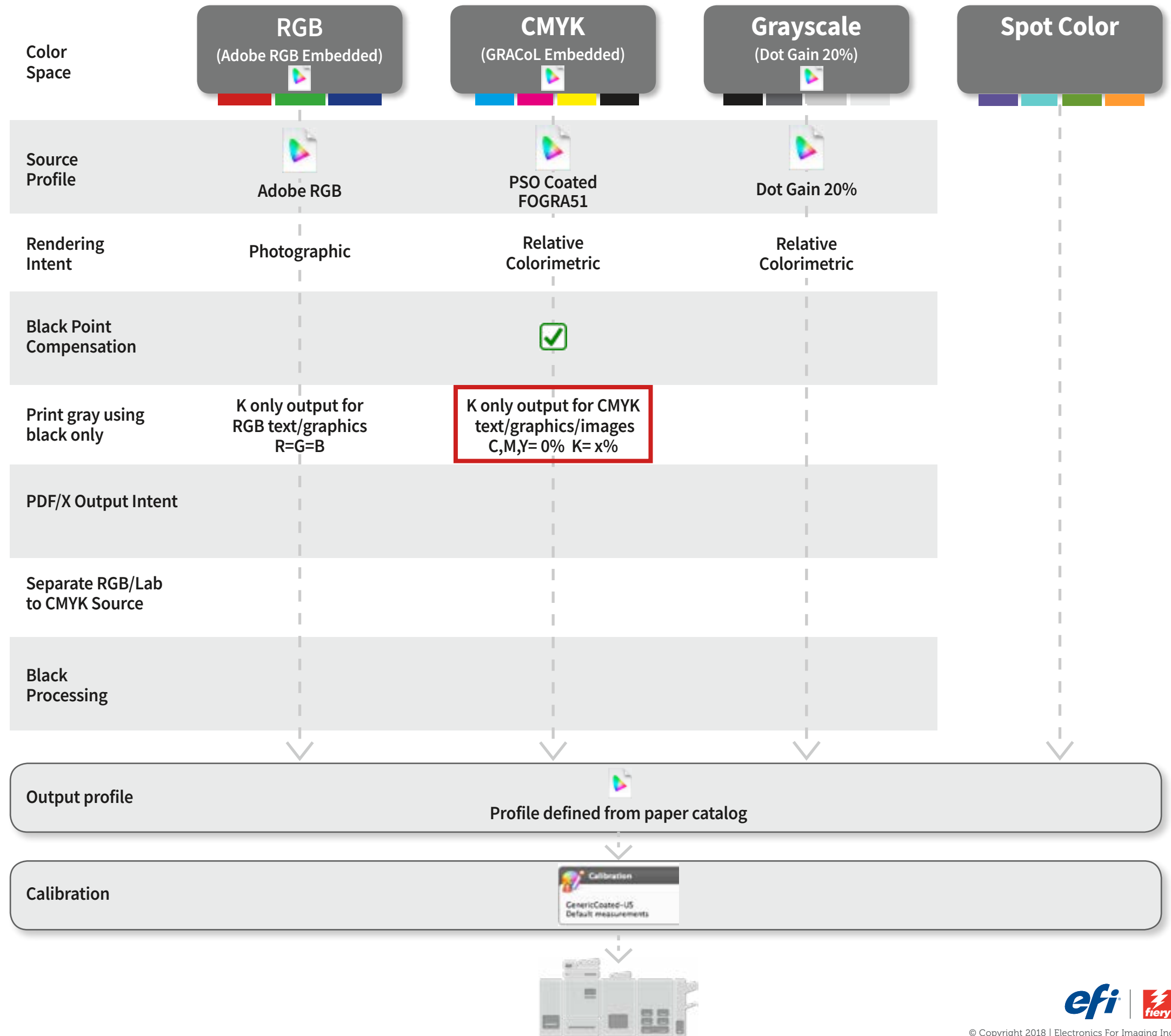
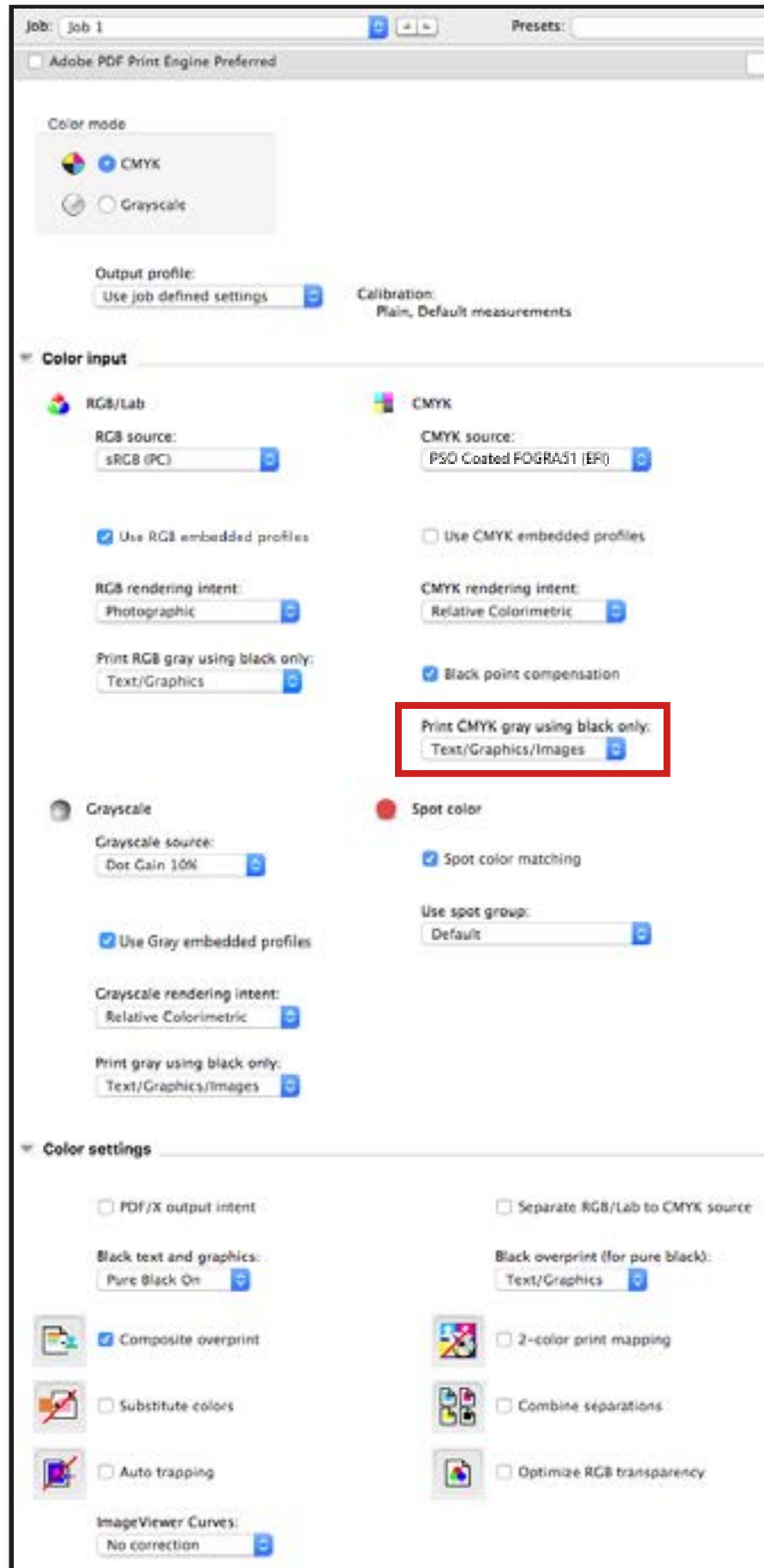
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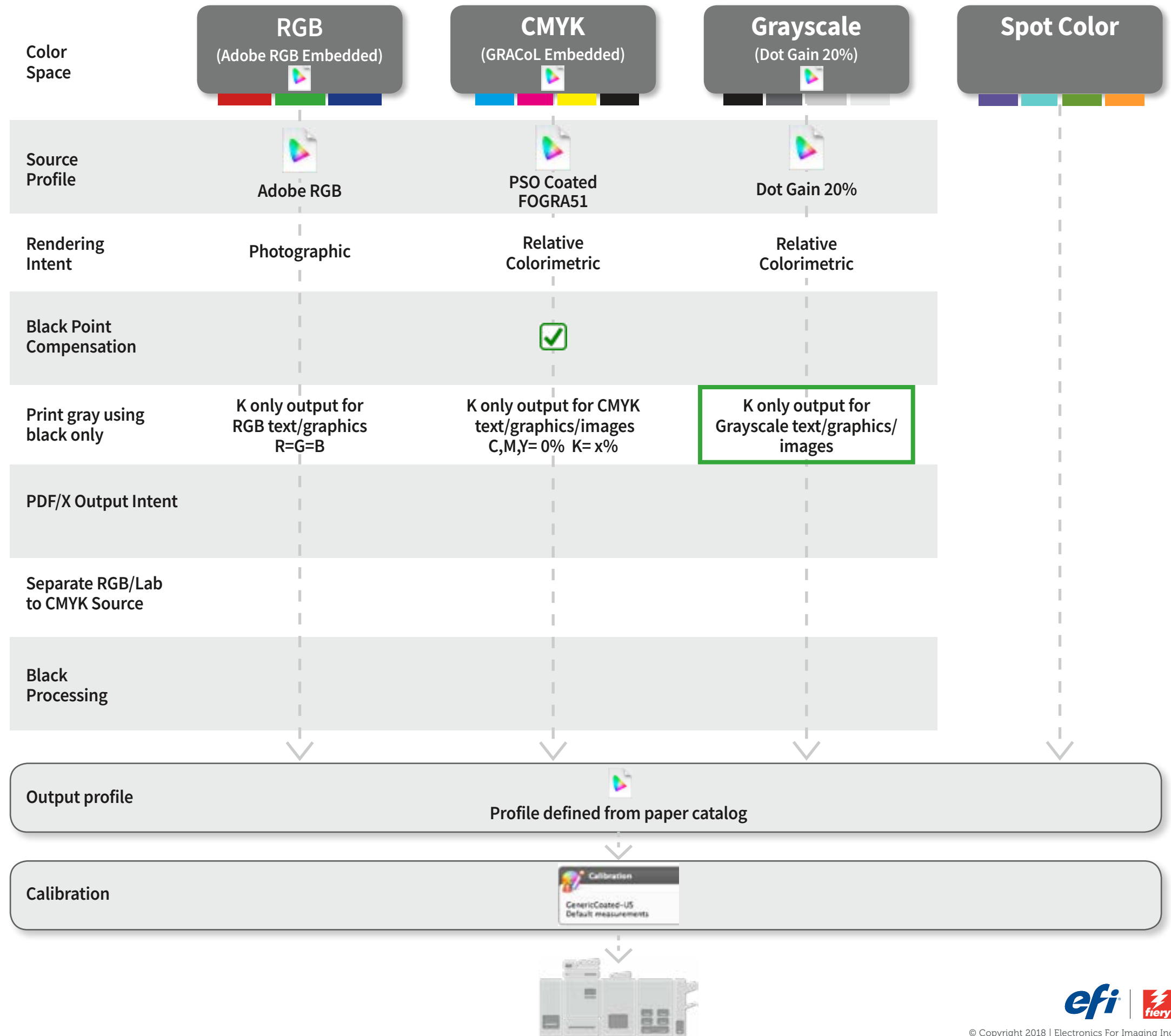
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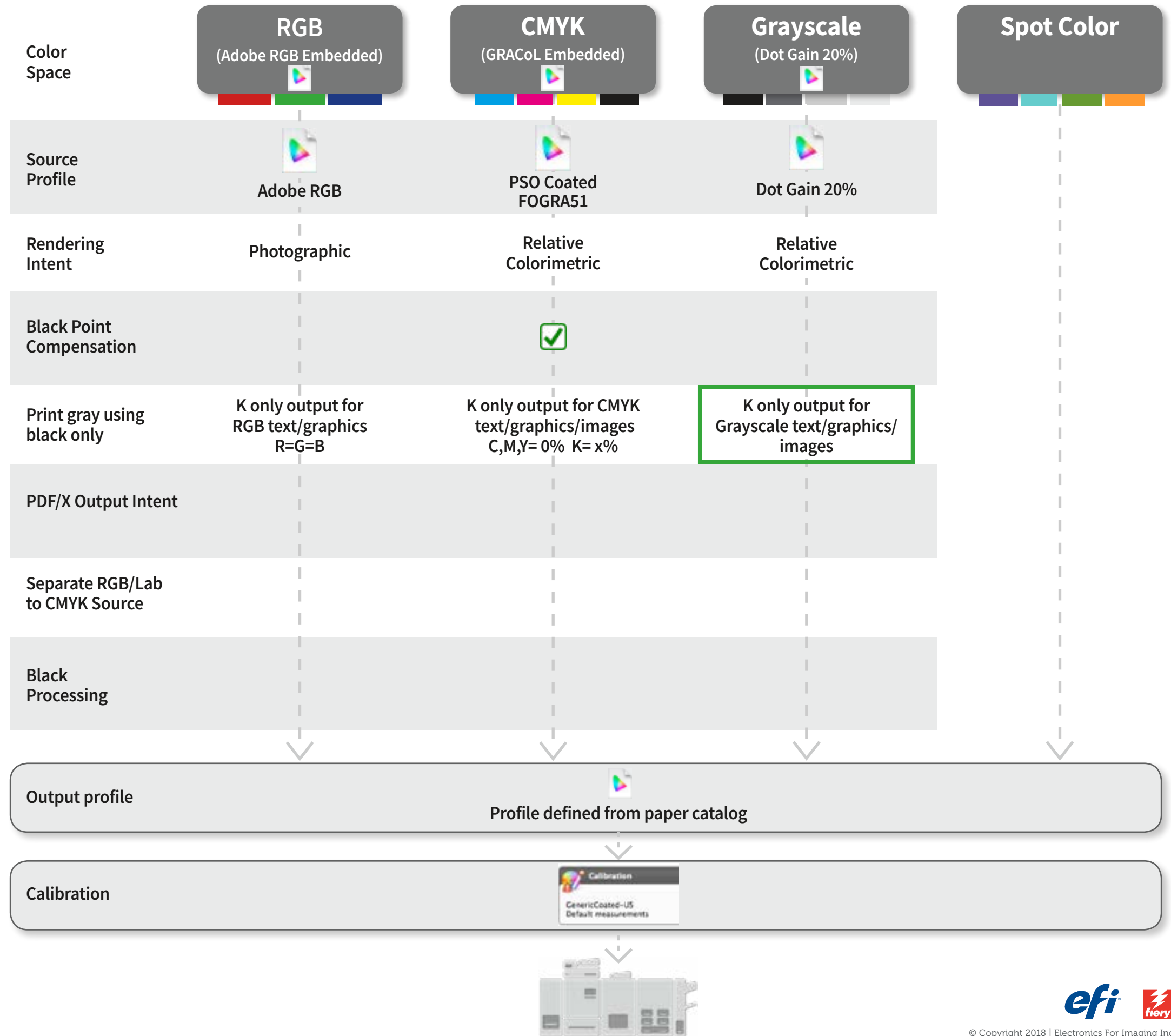
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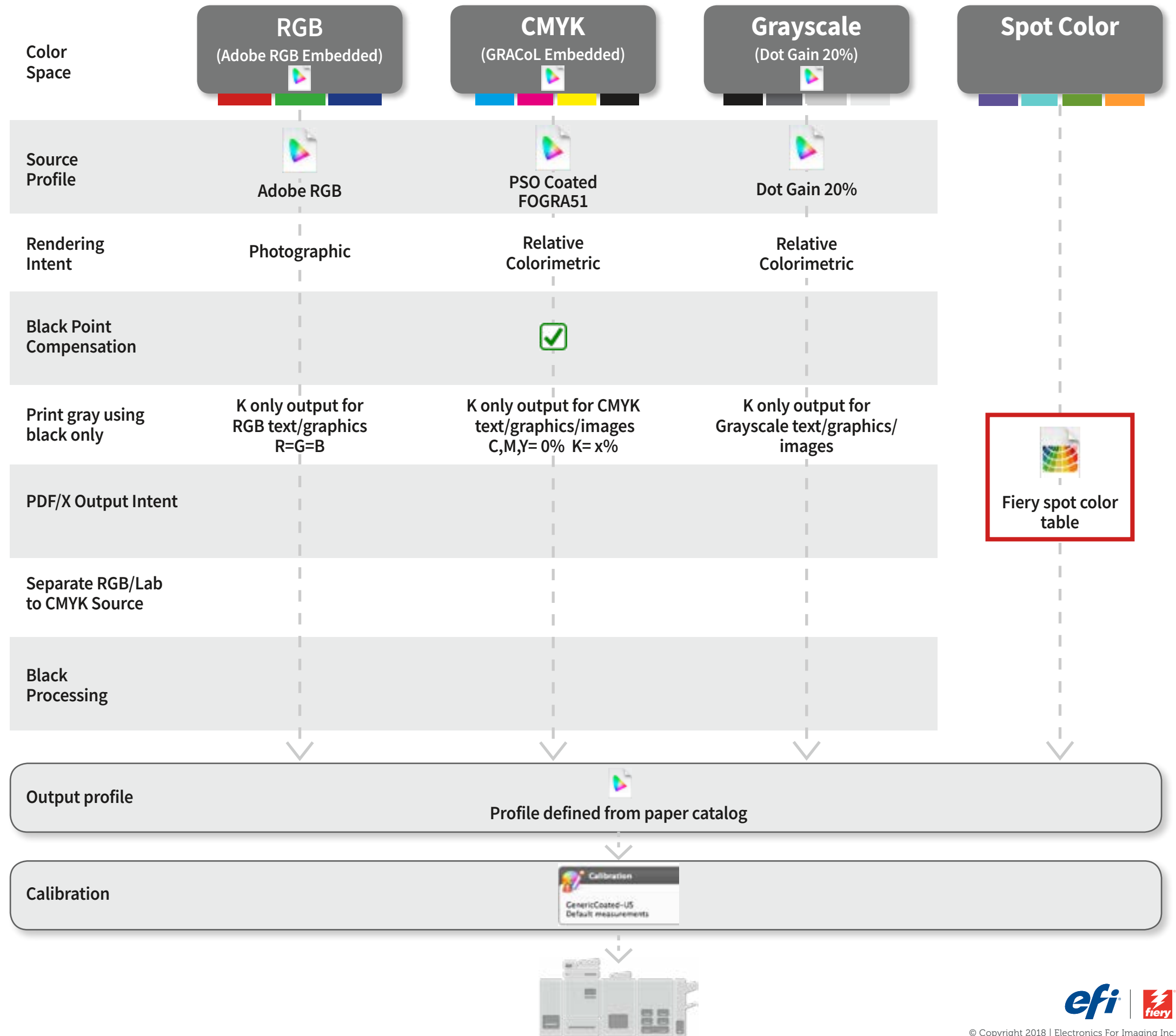
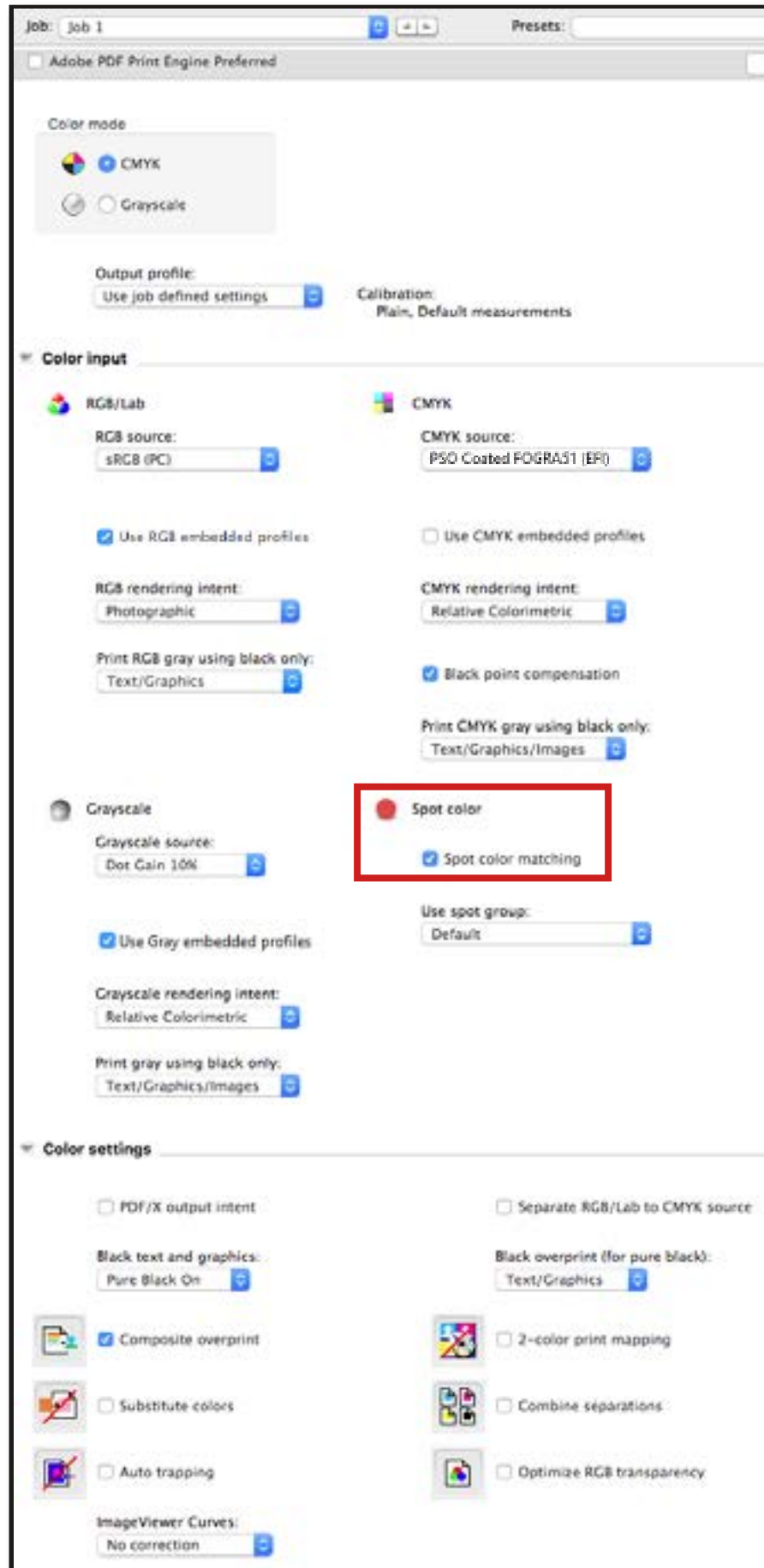
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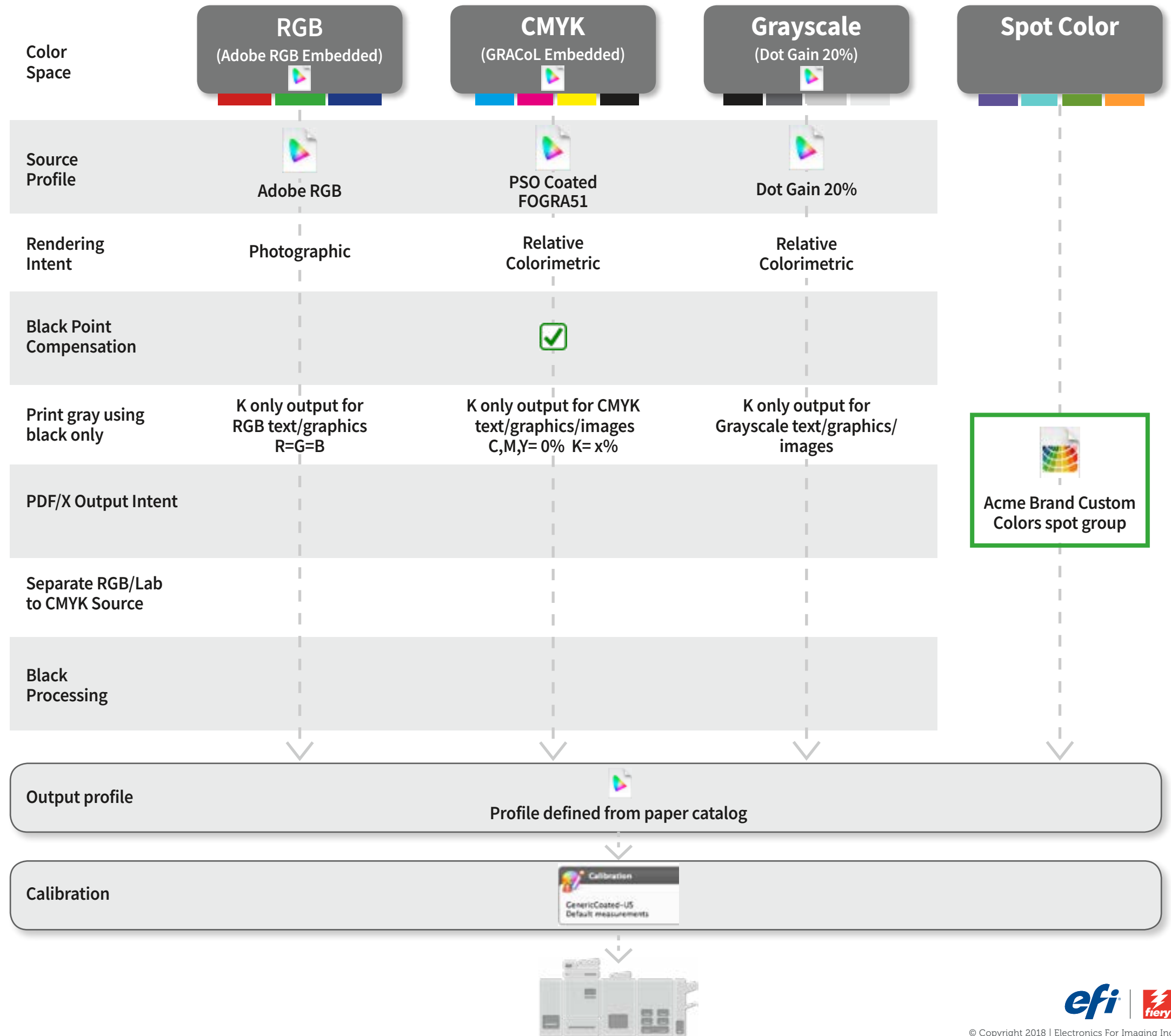
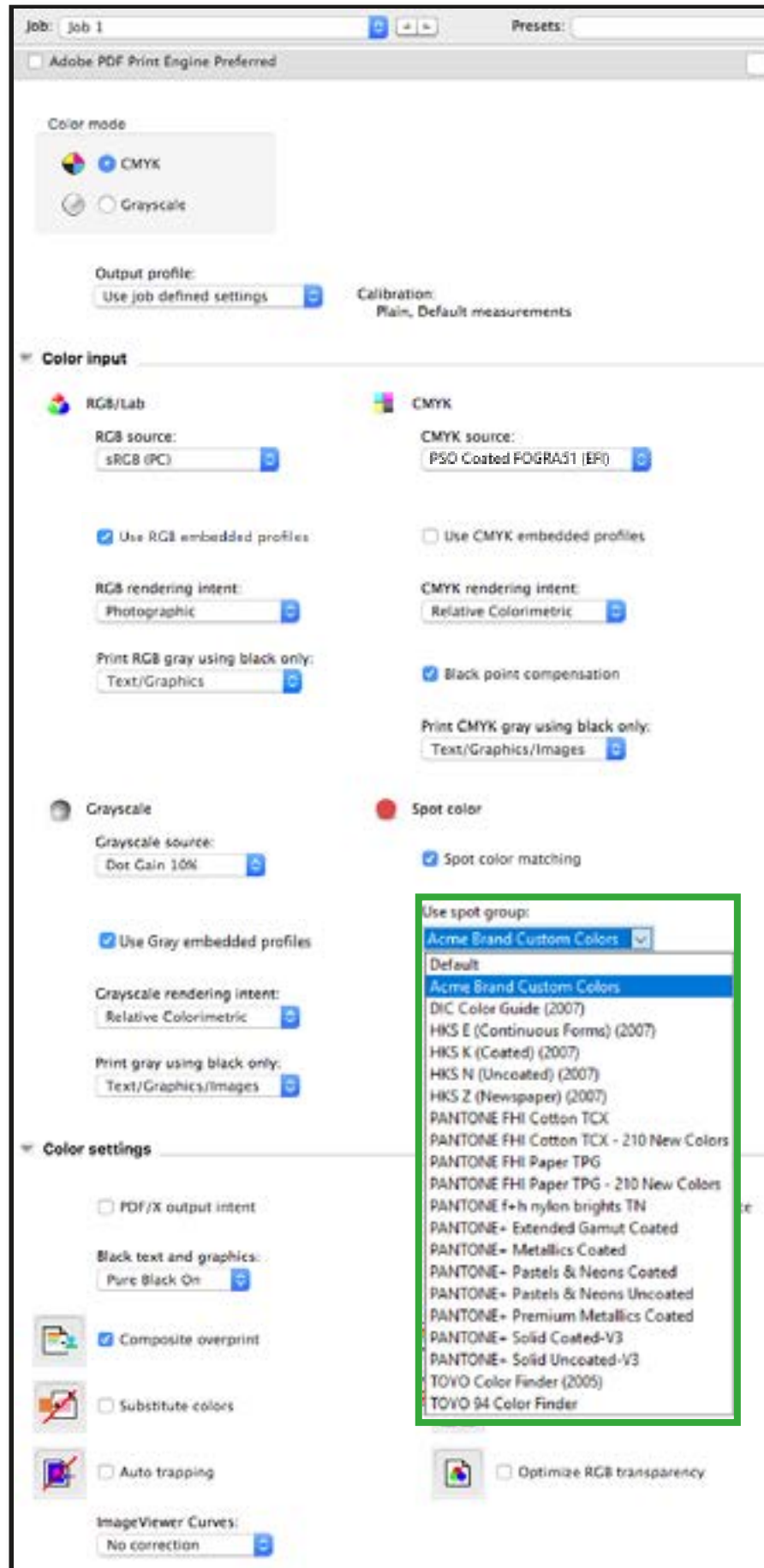
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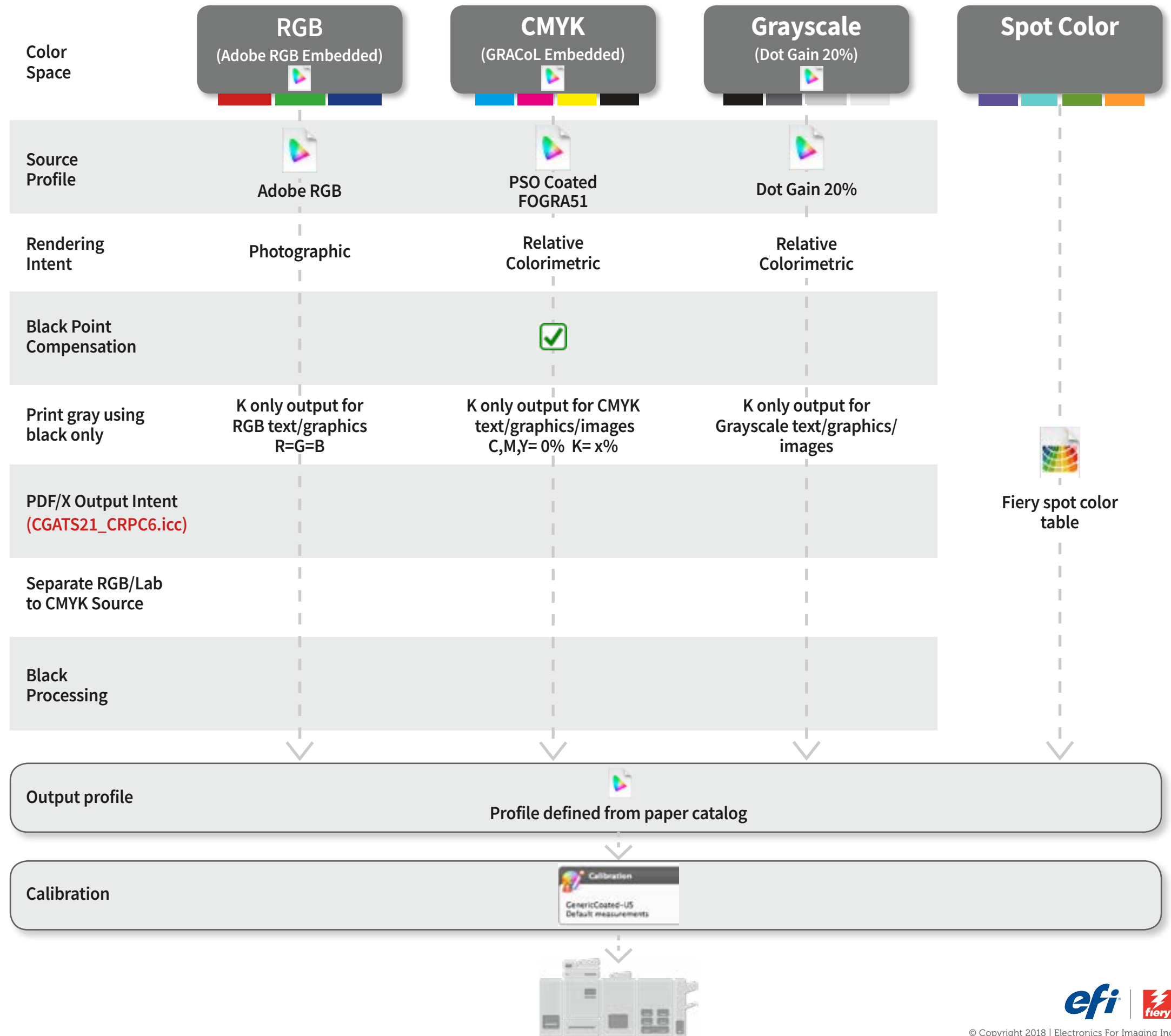
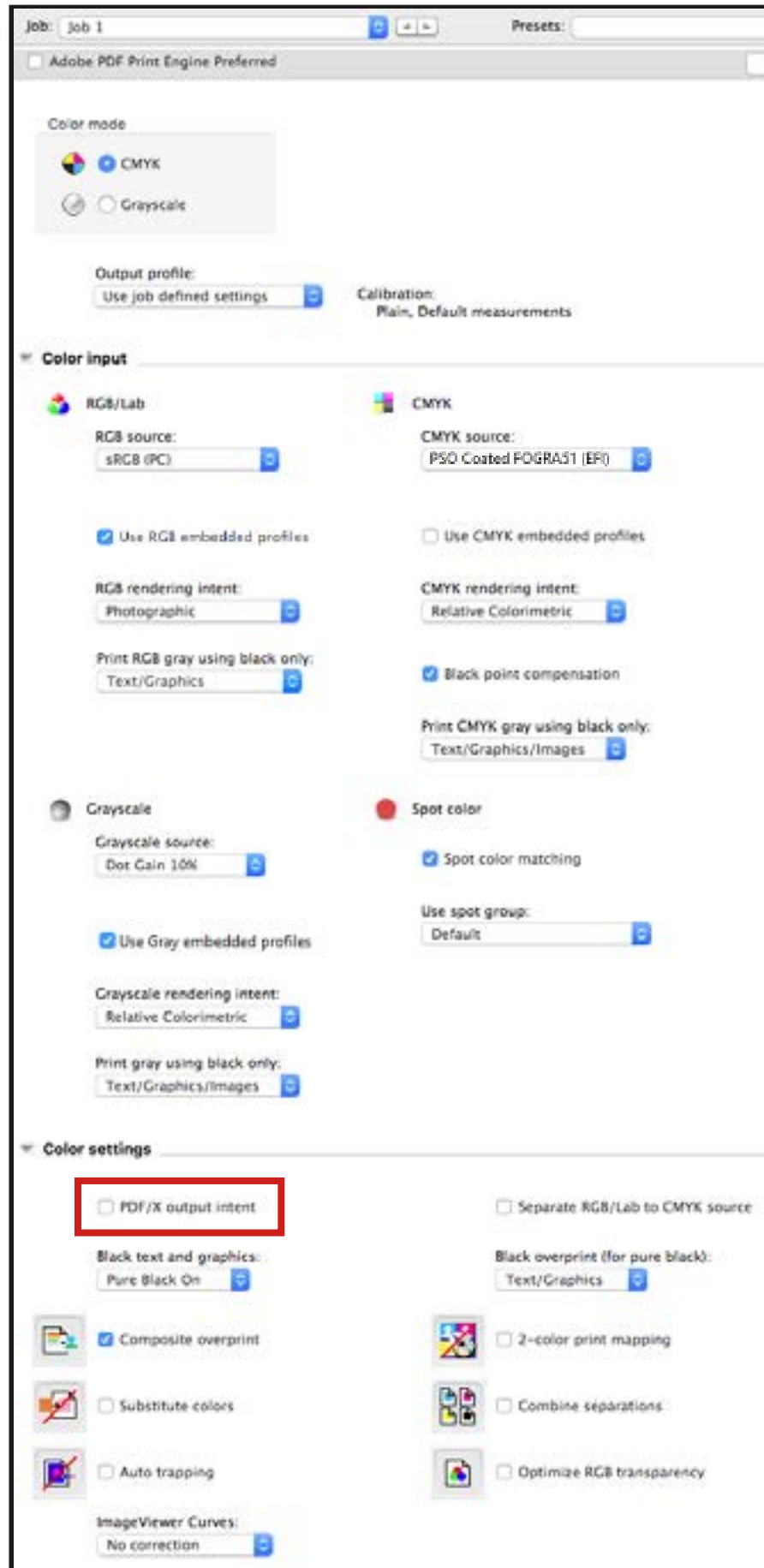
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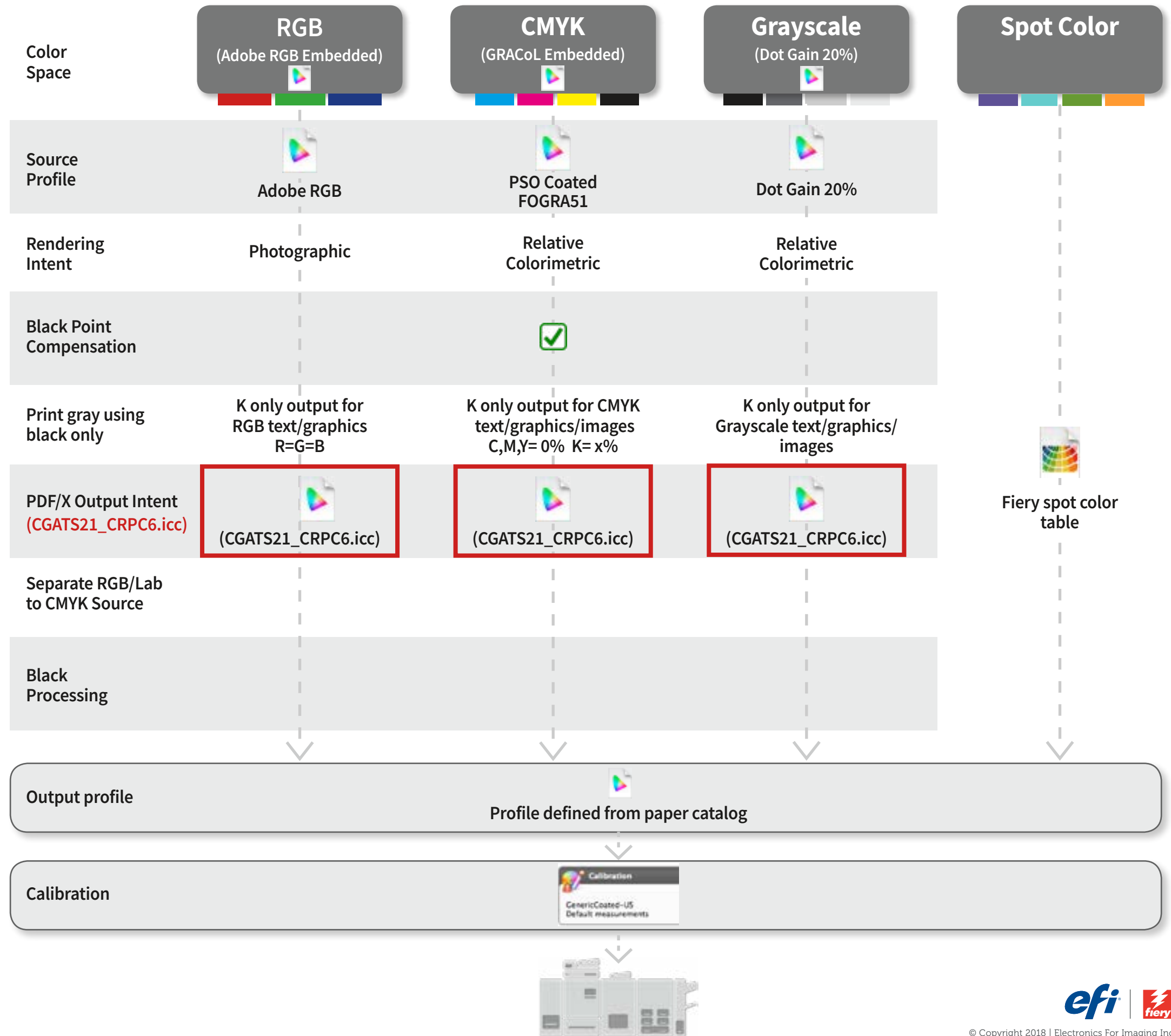
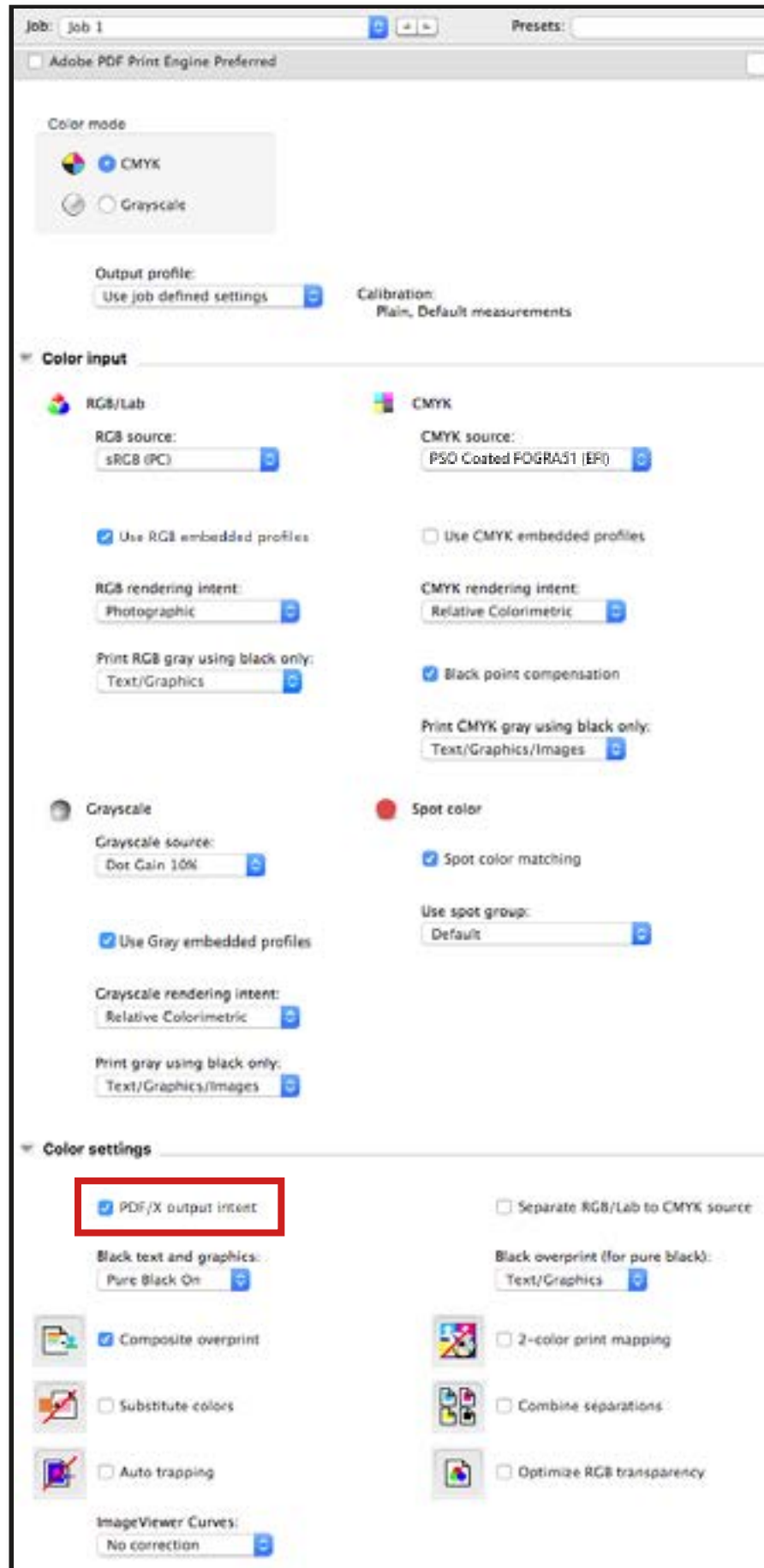
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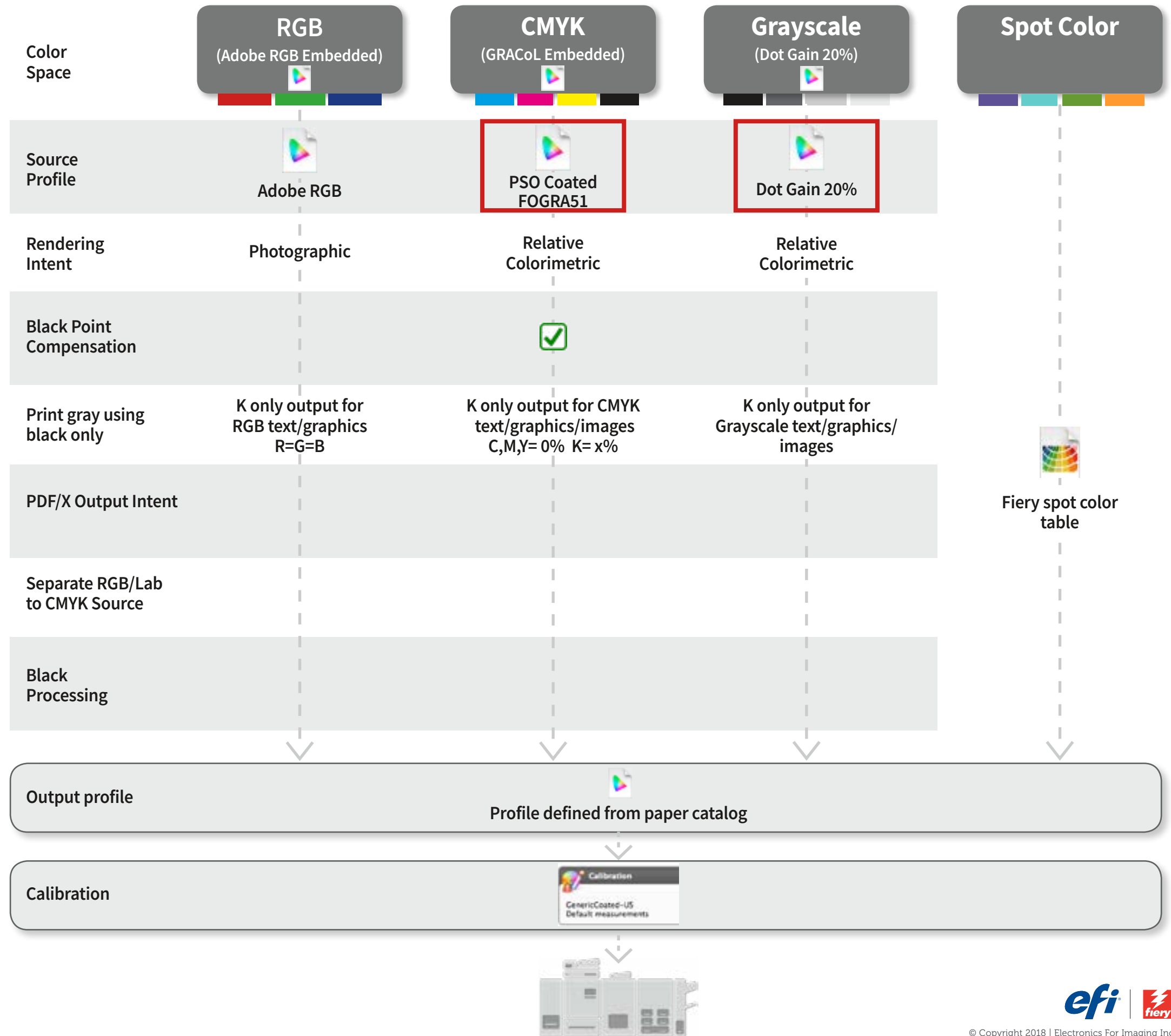
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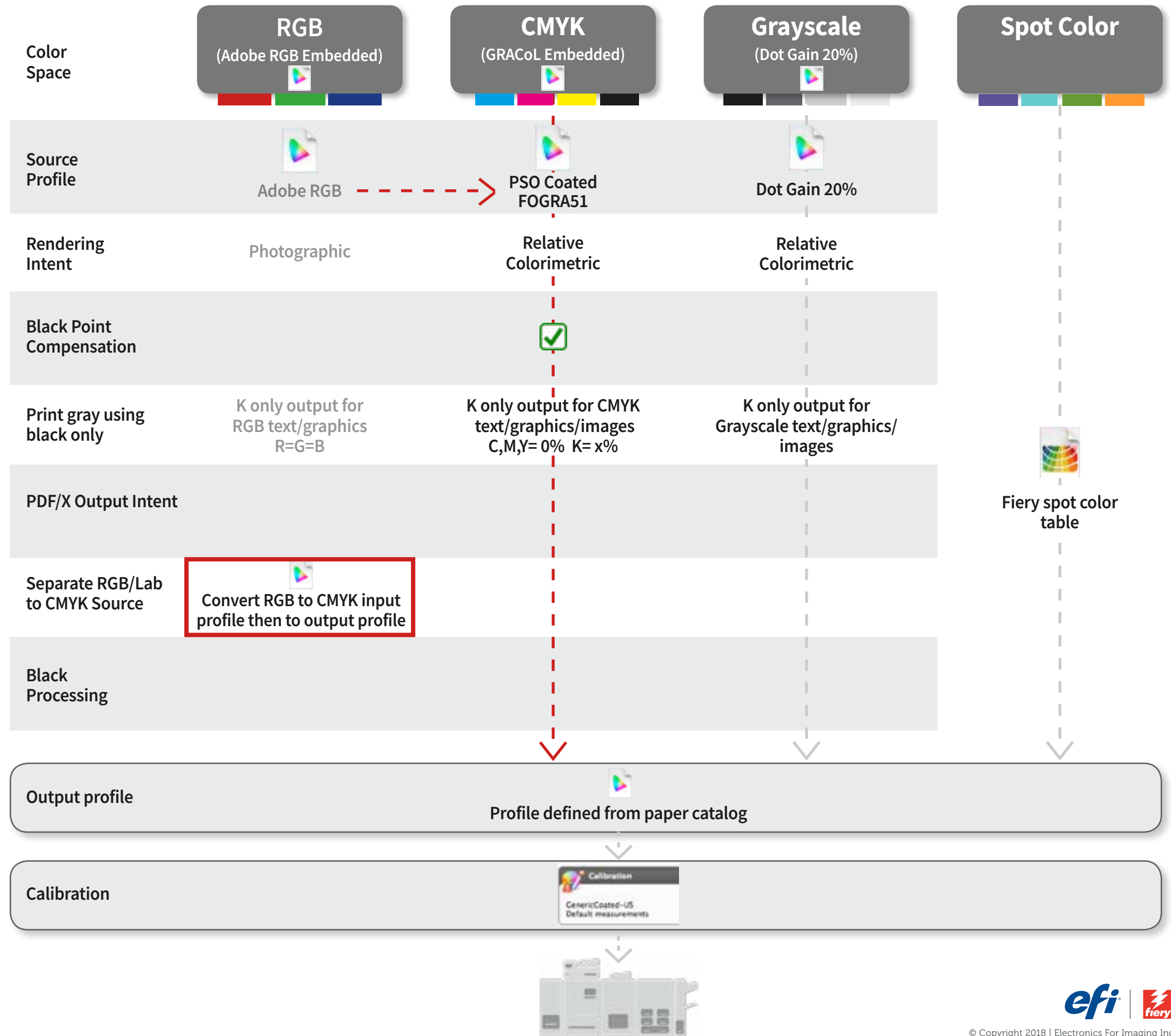
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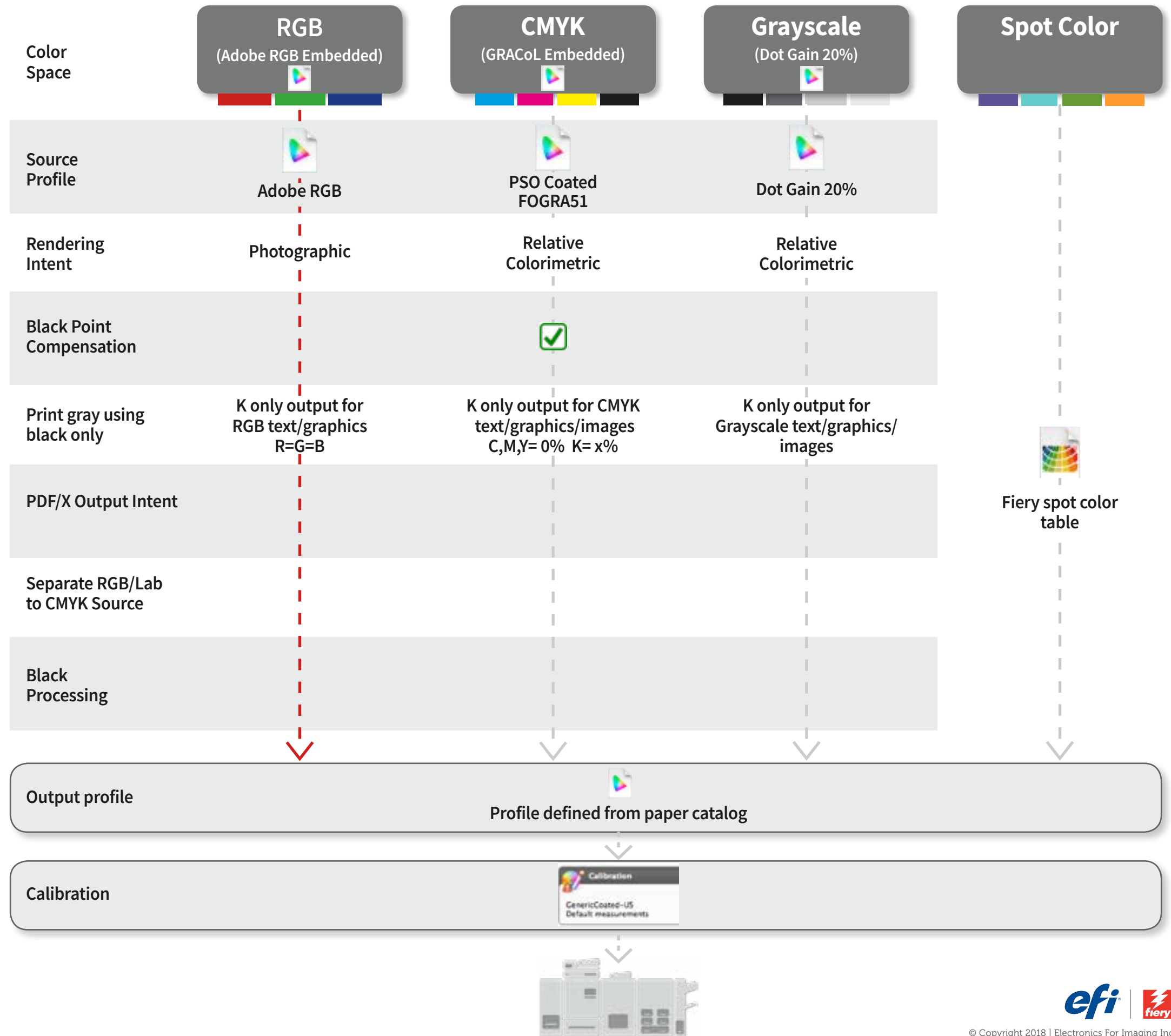
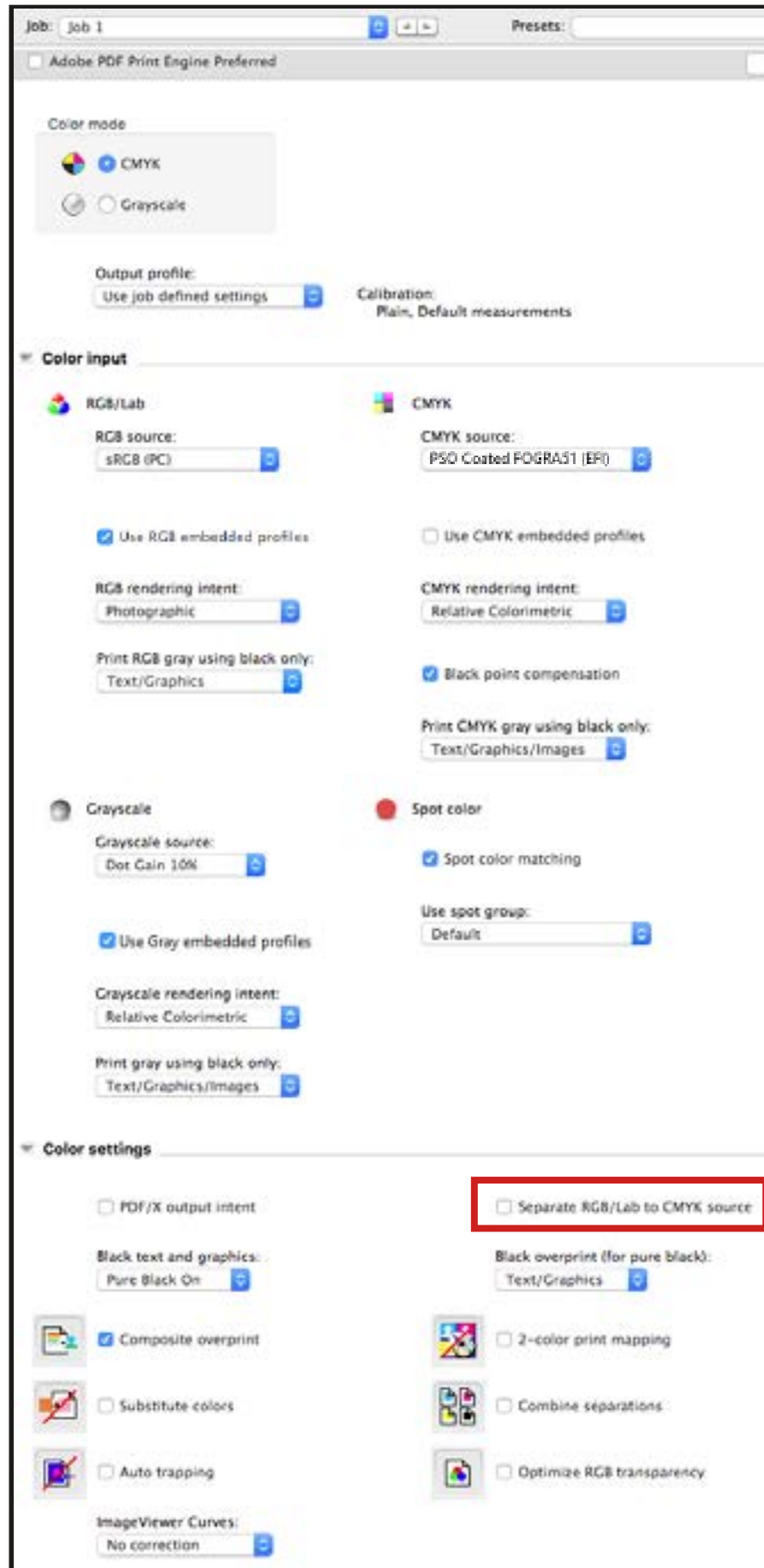
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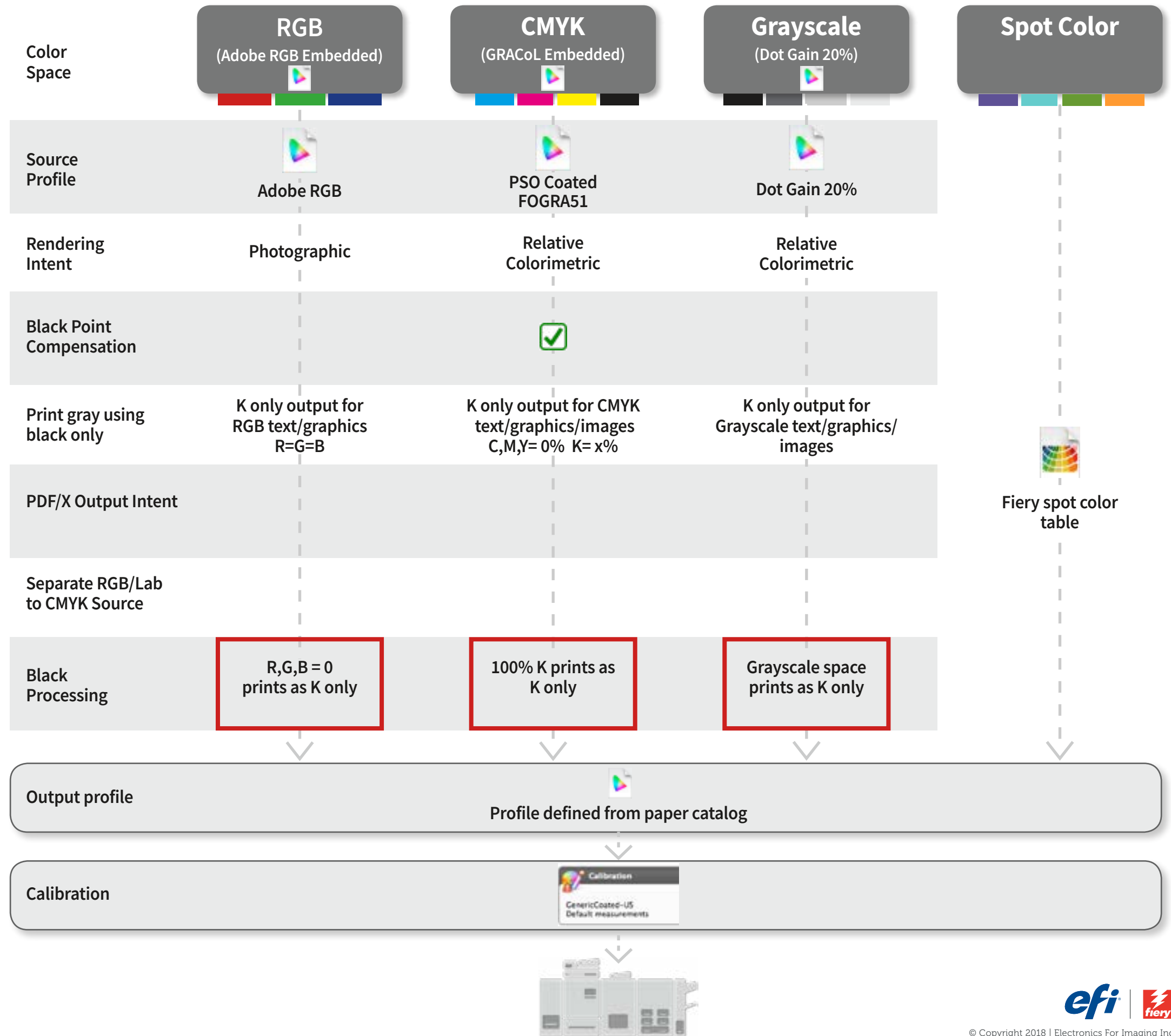
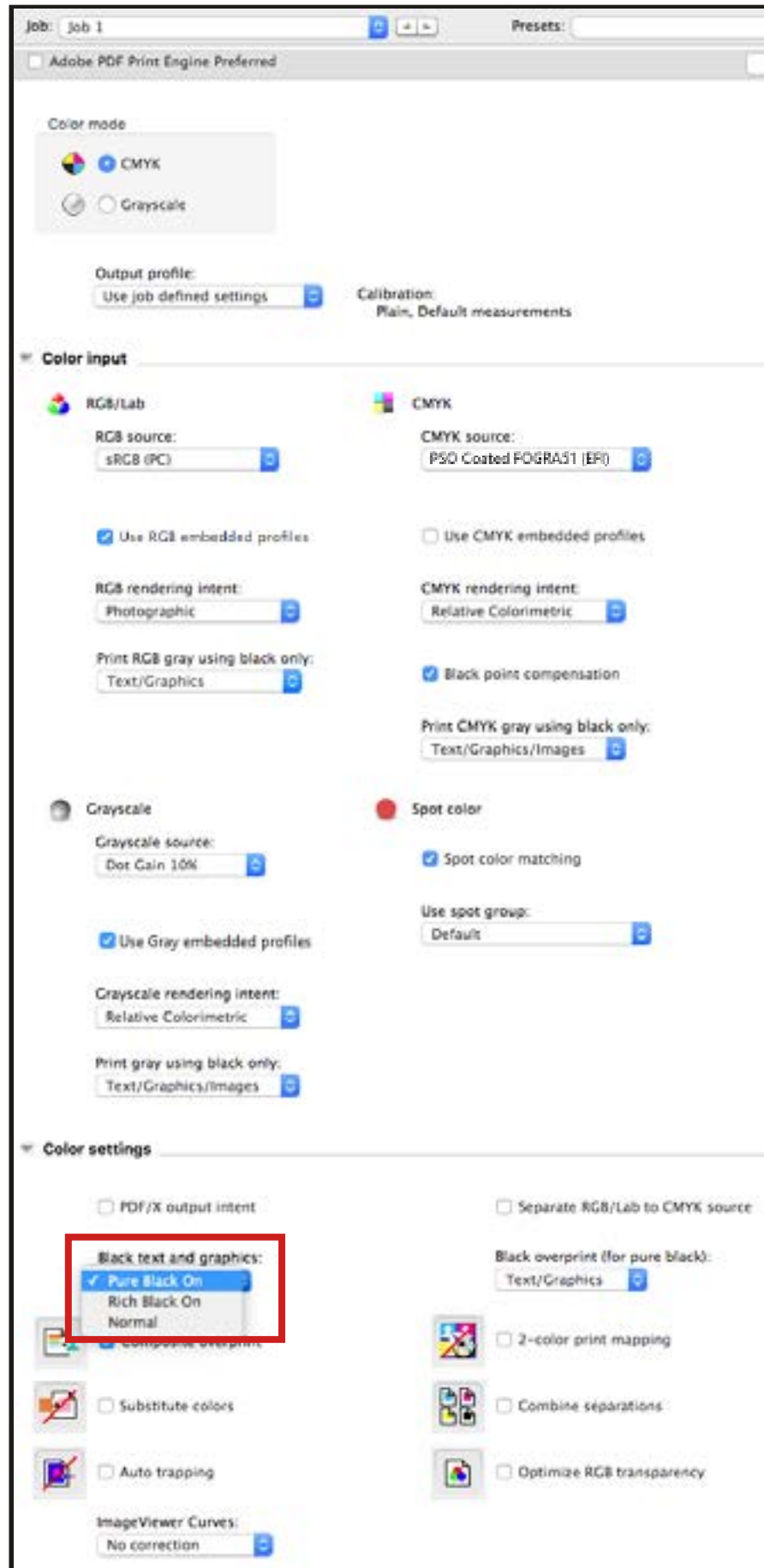
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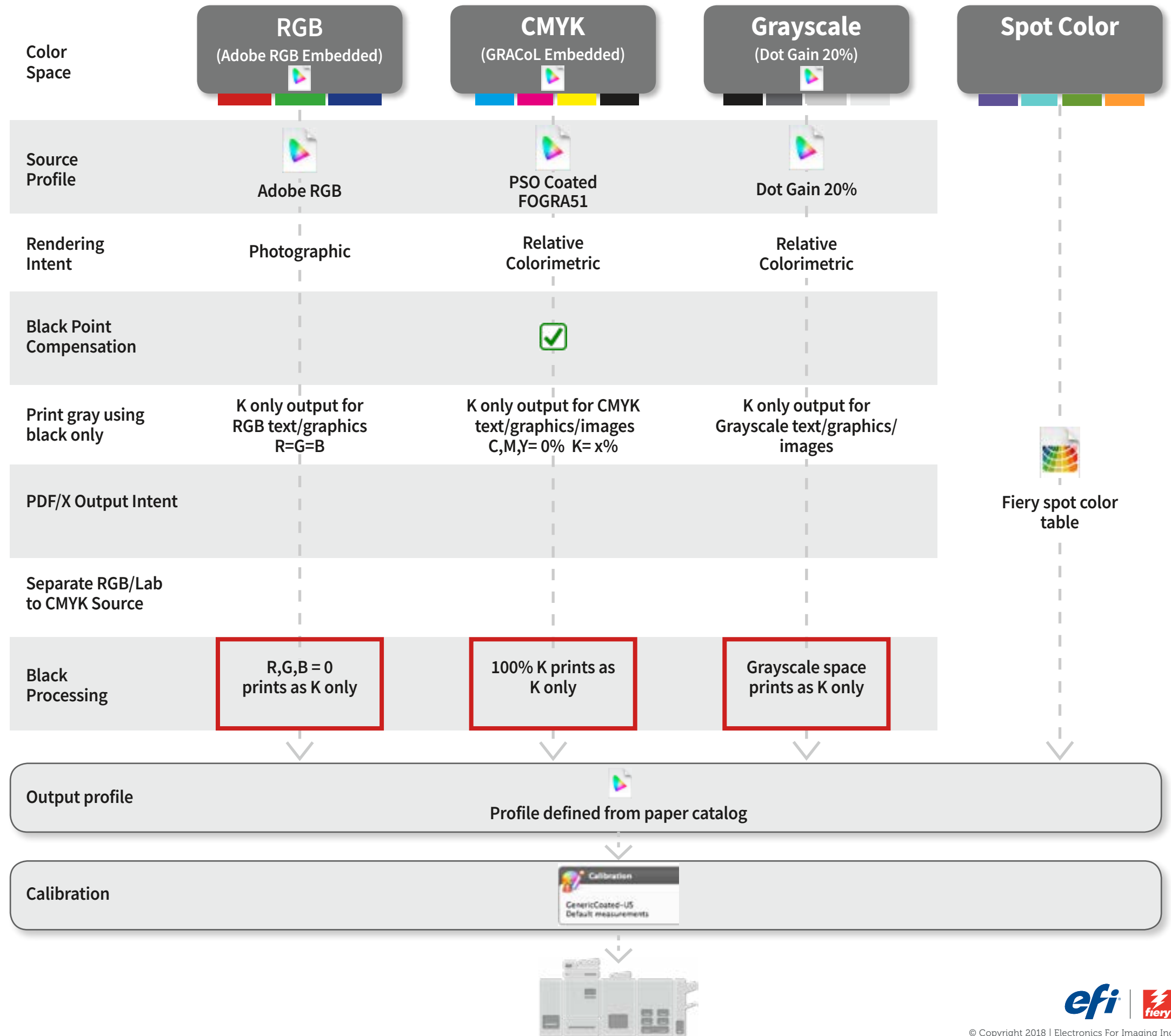
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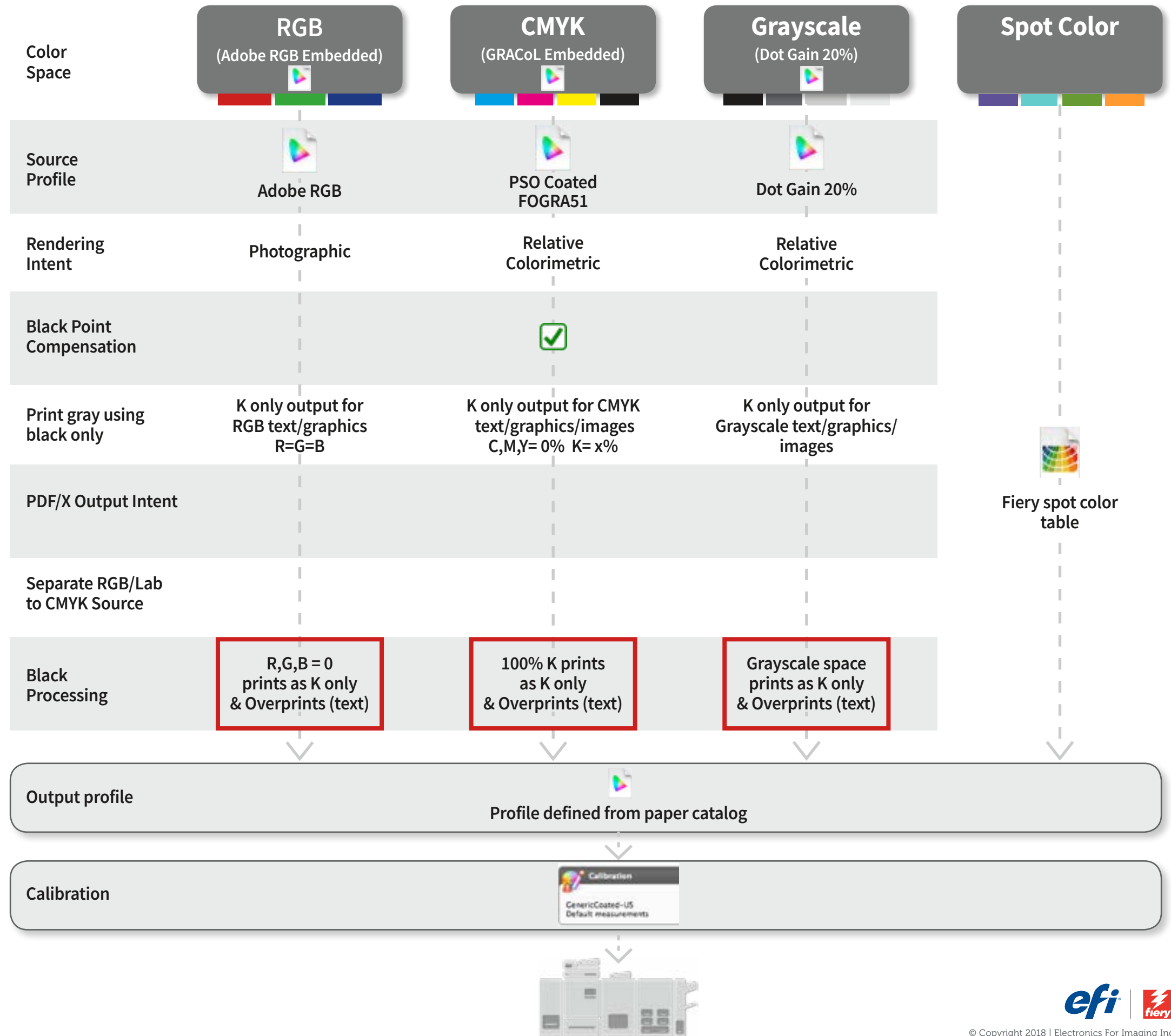
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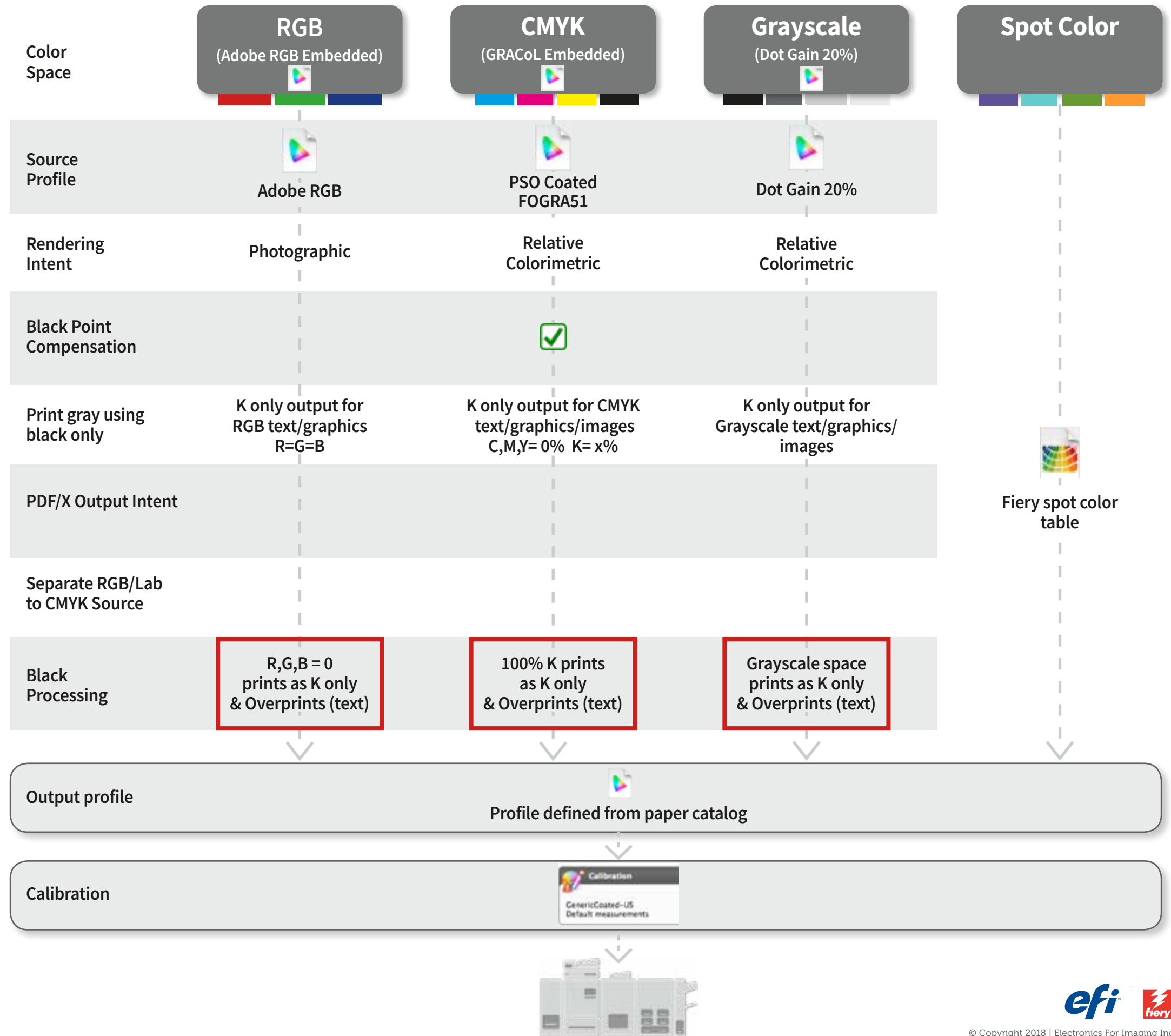
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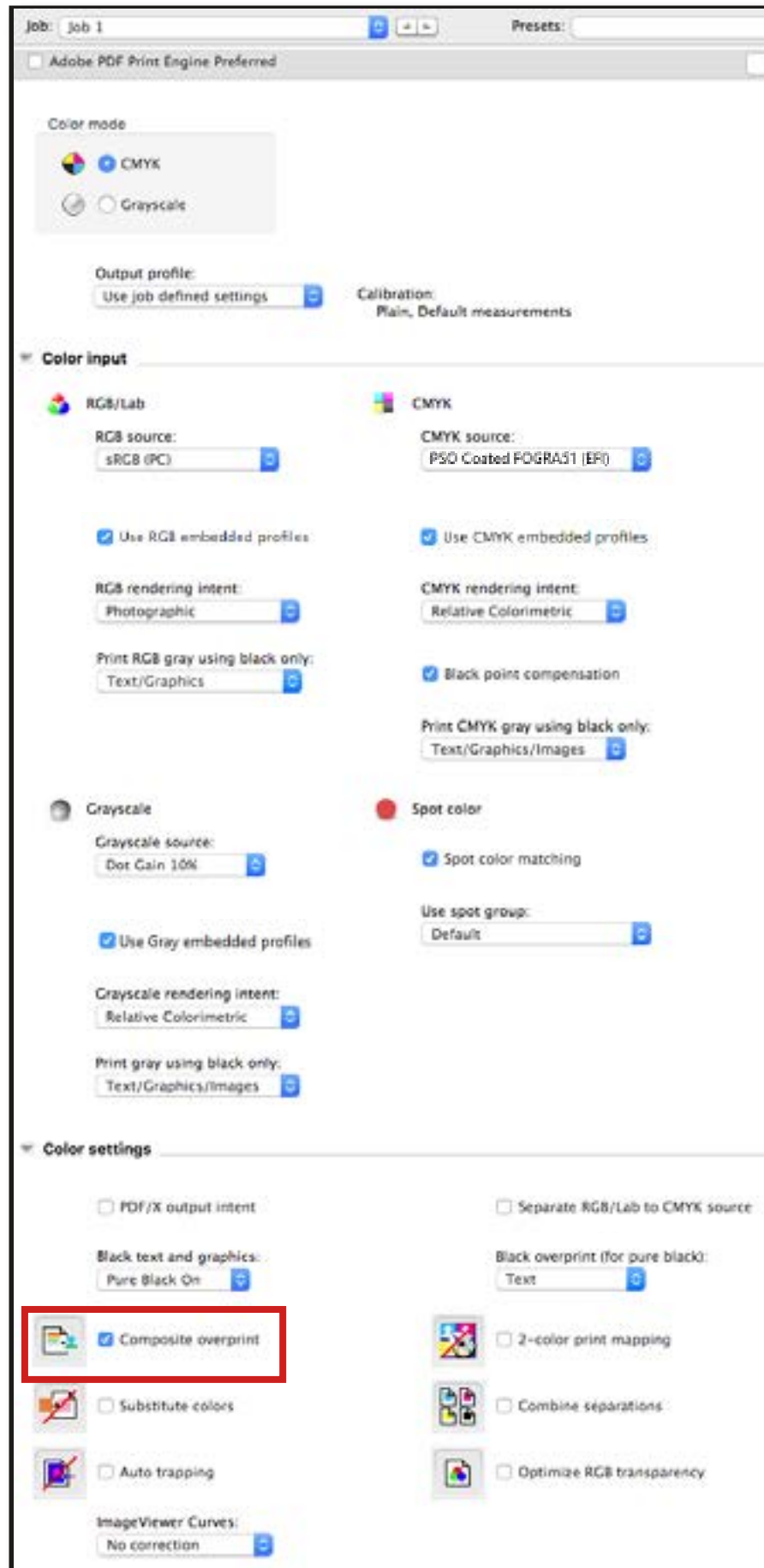
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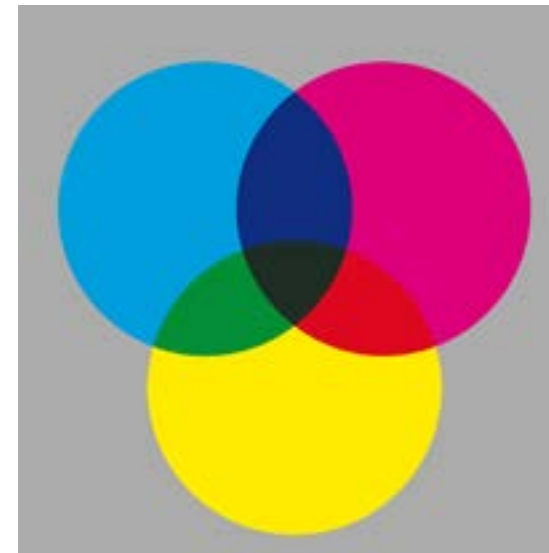
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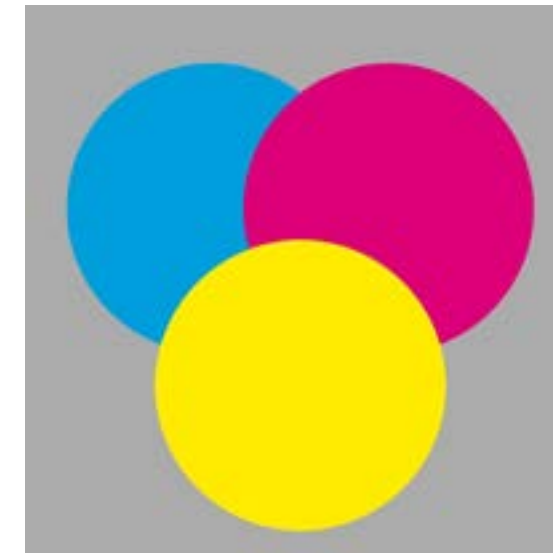
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Composite overprint – When an object of one color is placed on top of an object of another color in a page layout or drawing, it can be imaged directly on top if it has been configured to overprint.

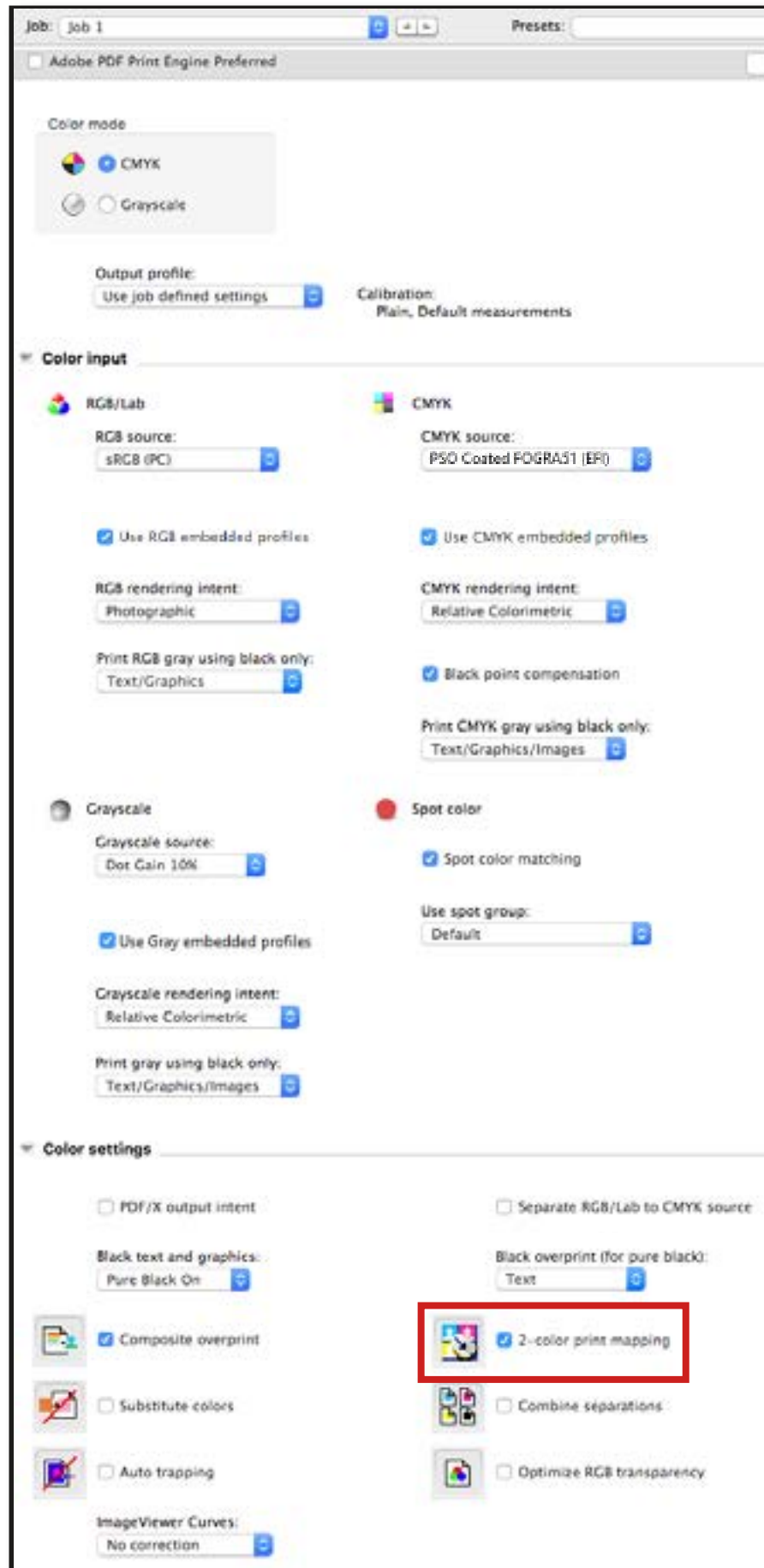


Correct overprint simulation

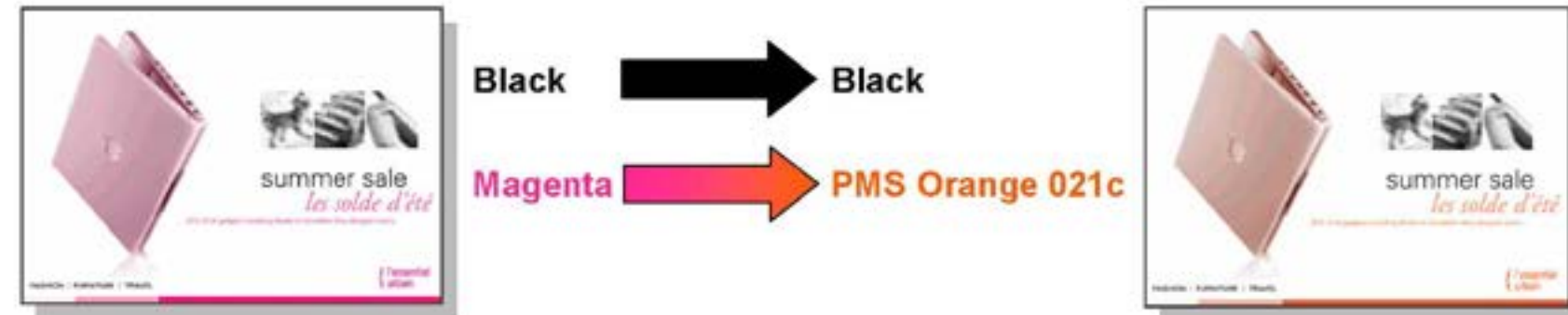


Missing overprint simulation

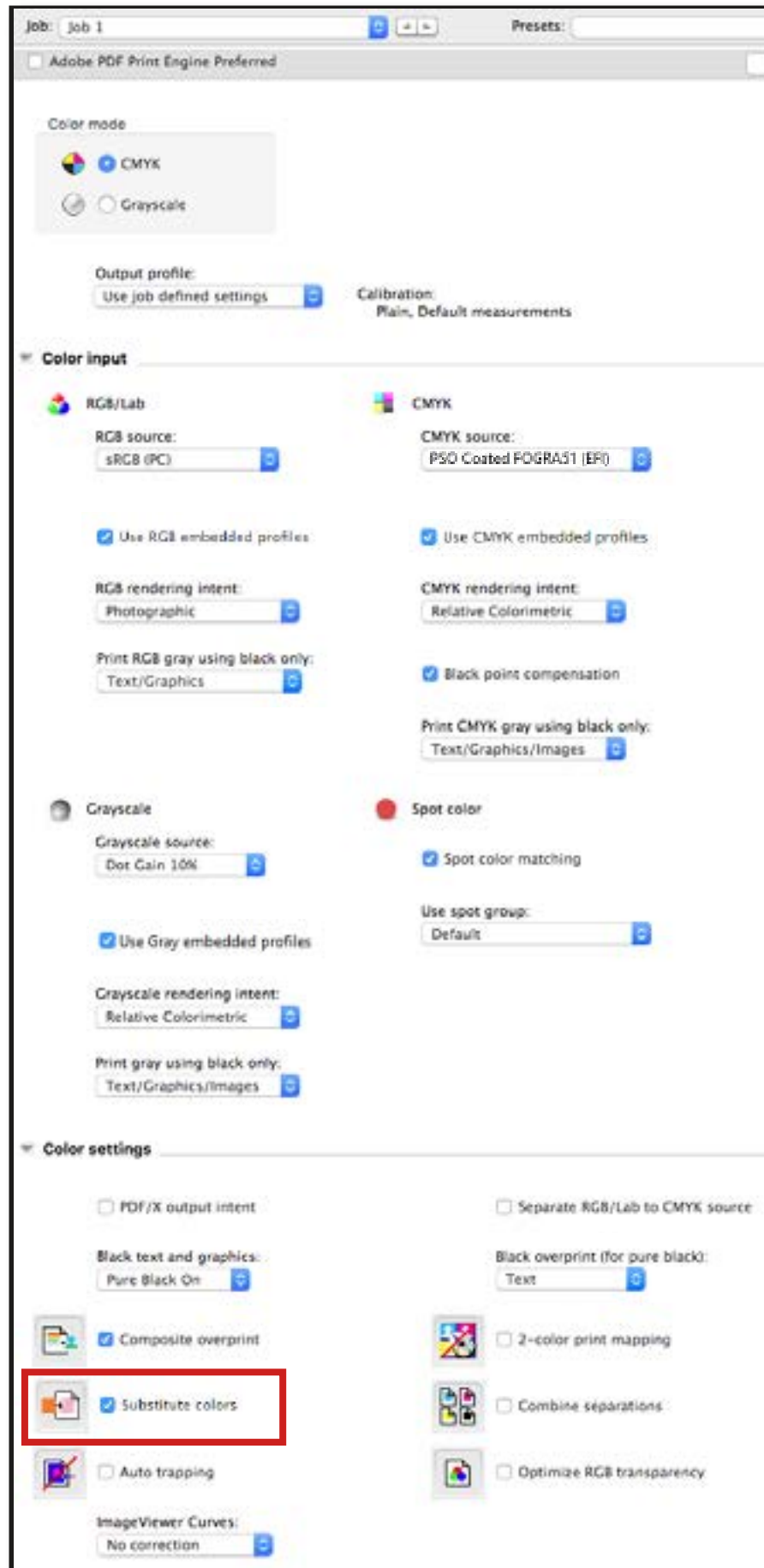
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2-color print mapping – Allows operators to replace the black and a specific color of a two-color job with the required spot colors, without modifying the original job. Ensures accurate spot color matching from Fiery Spot-On when printing the final spot colors.



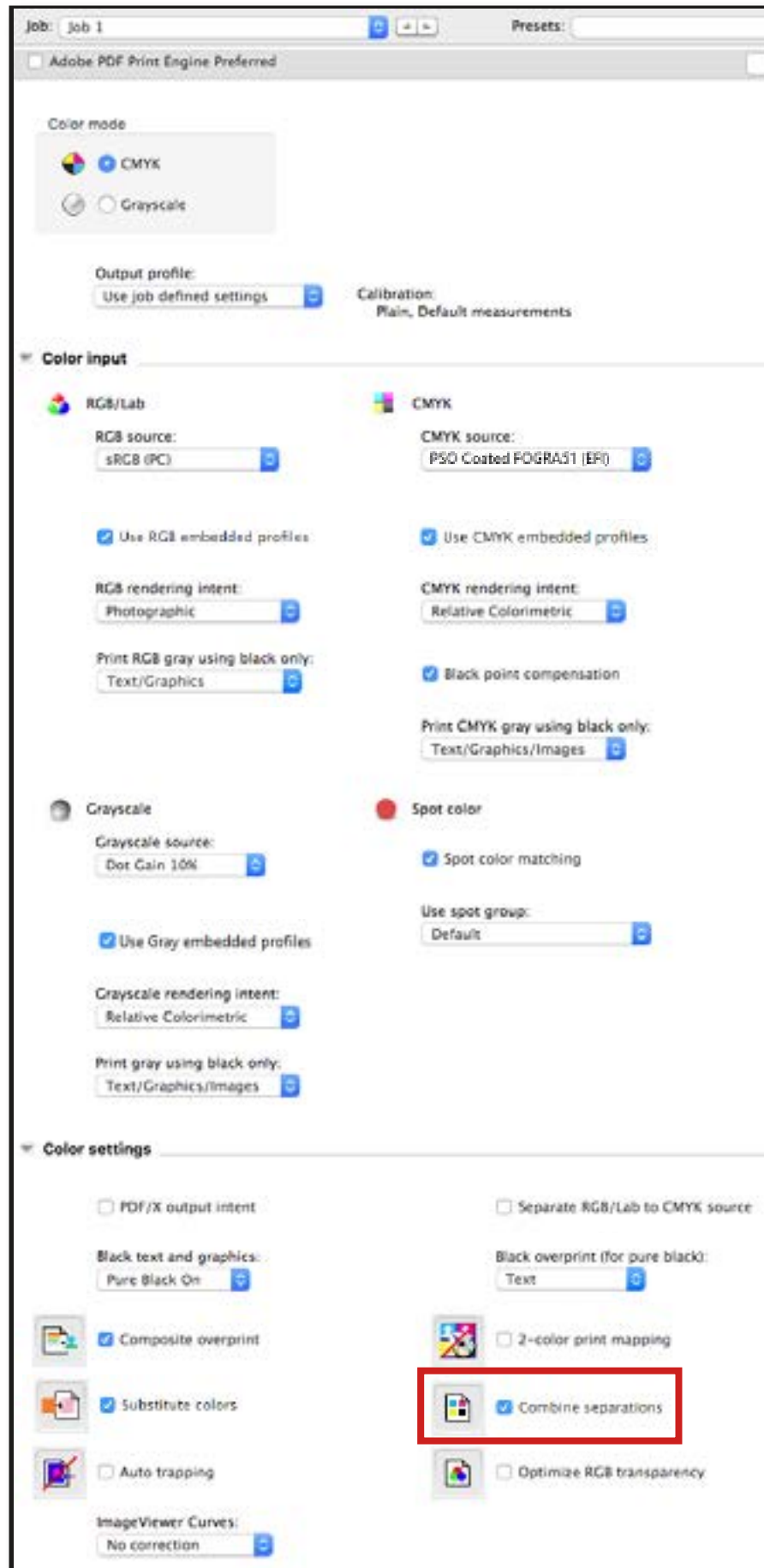
Fiery Command WorkStation 6 FS300 & Above Color Settings – Best Practices Flowchart



Substitute colors – Allows specific RGB or CMYK color tints in source documents to be mapped to specific CMYK tints on printed output.

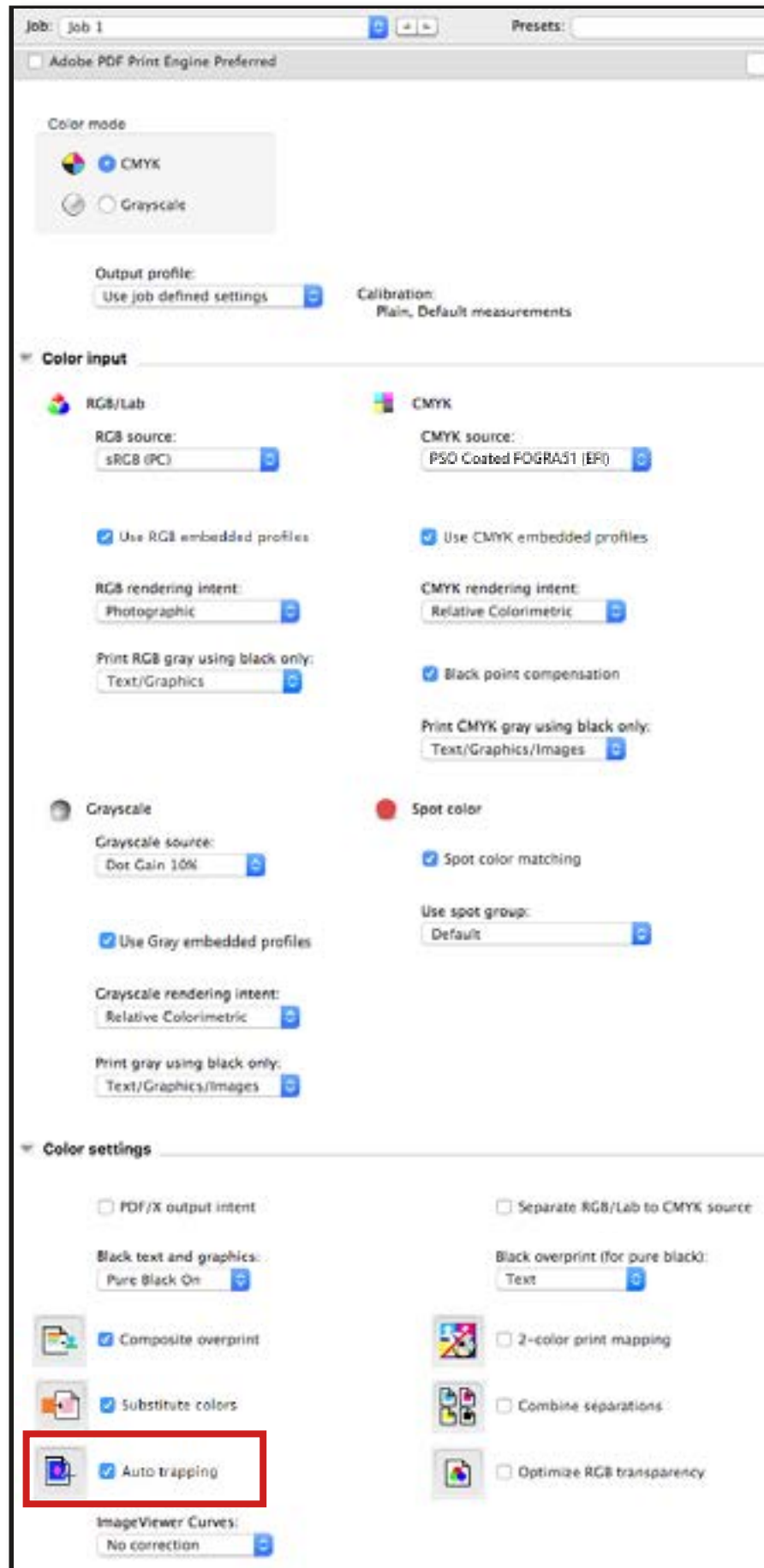


Fiery Command WorkStation 6 FS300 & Above Color Settings – Best Practices Flowchart



Combine separations – Combines pre-separated PostScript files so that each page prints as one composite CMYK page rather than four separations.

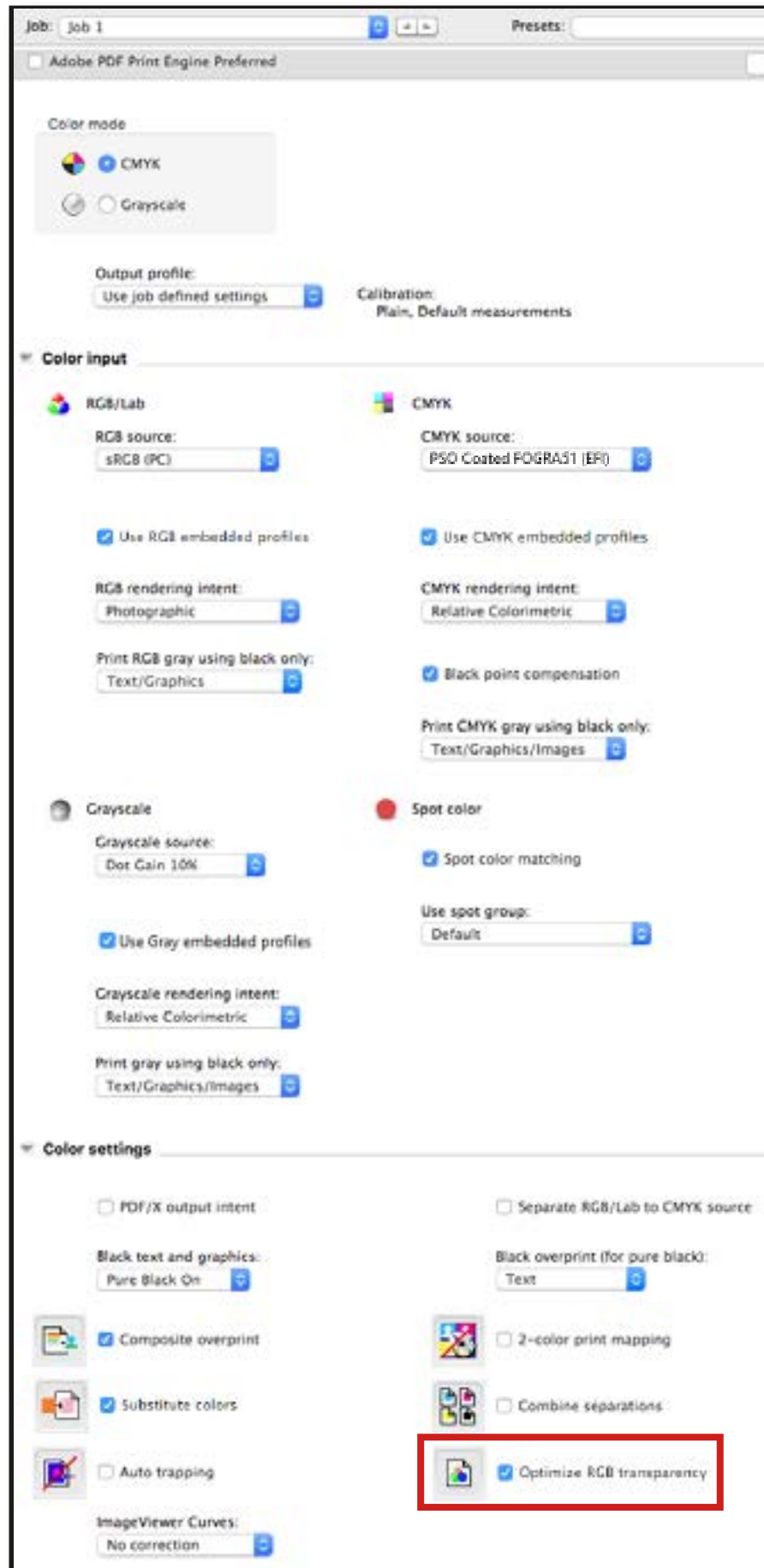




Auto trapping – Operators can achieve professional-level results without the tools and knowledge required for conventional trapping. The feature automatically traps adjacent color objects by spreading the lighter color at each boundary into the darker color adjacent to it. Trapping is used so that the paper white gap is not seen between adjacent color objects if there is slight misregistration on press.



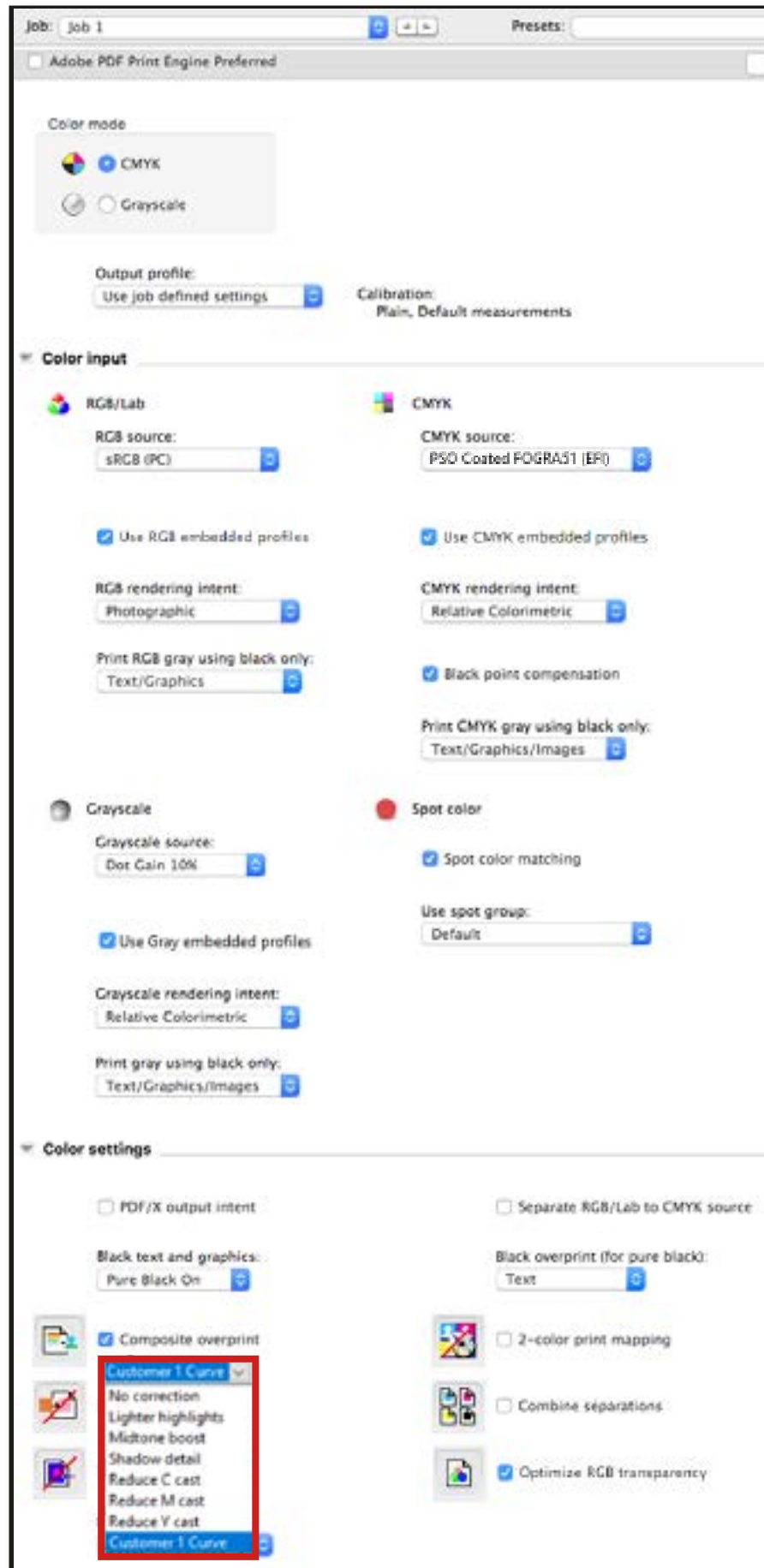
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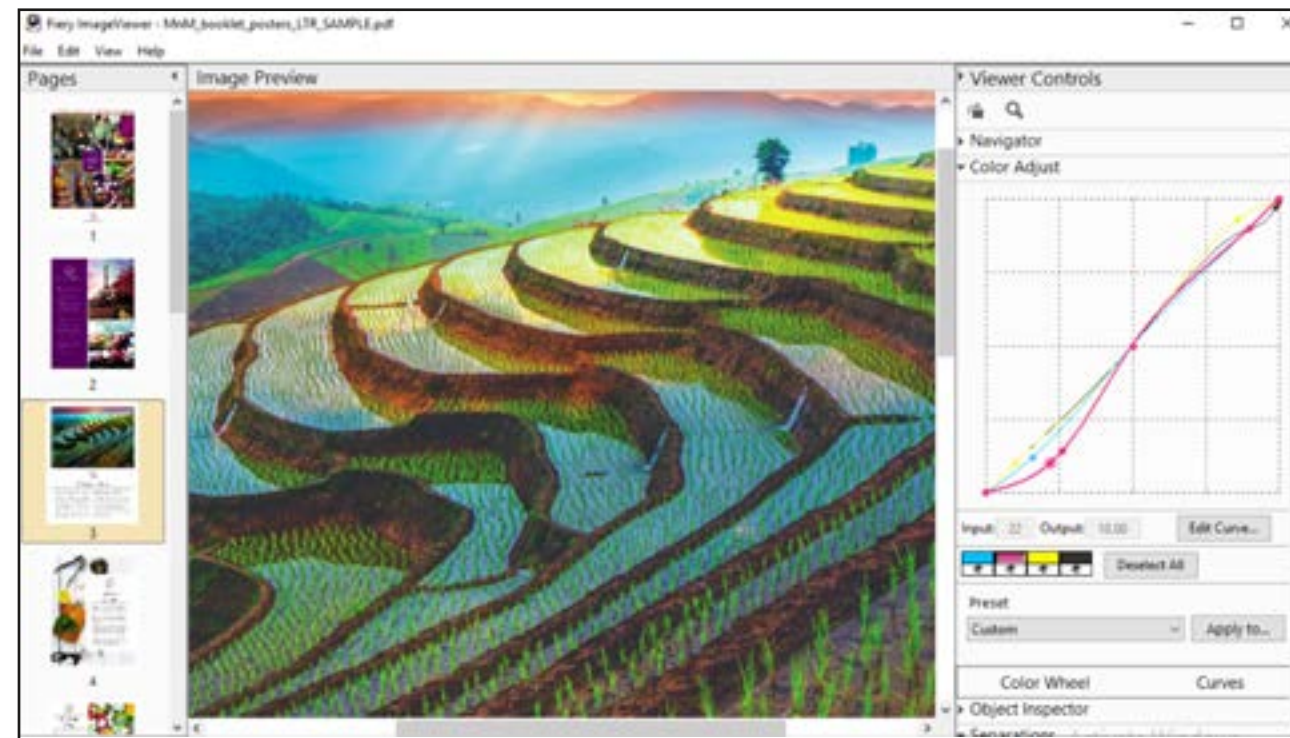
Optimize RGB transparency – Forces the interpreter to use the blending color space specified in the PDF file, so that the output has no artifacts and matches customer expectations. This enhances the print quality of PDF files that include transparency.



Fiery Command WorkStation 6 FS300 & Above Color Settings – Best Practices Flowchart



ImageViewer curves – Enables users to apply color curves on a per job or per workflow basis. Customers with Graphic Arts Package, Premium Edition can create custom curves in Fiery ImageViewer.



Fiery Command WorkStation 6 FS300 & Above Color Settings – Expert Color Management Best Practice Settings

