ColorConvert section of the Publish File process template

This process template section defines how Prinergy handles color converting during publishing.

JTP

Select the job ticket processor (JTP) to use for color conversion. You set up JTPs using Prinergy Administrator.

Match Colors

Match Colors in Page Content

Enables Color Matcher to convert colors in page content using ICC profiles. Select this check box to enable this feature; clear the check box to disable this feature. When you enable this feature, you can set the **Assumed Source or DeviceLink Profile** option.

Assumed Source or DeviceLink Profile

Select **Exactly as Applied During Refining** to use the same profile that was used during the refine process. If the file was not color converted during refining, or the profile is missing, an error is displayed.

Select **As Defined Below, if Not Set in Refining** to use the same profile that was used during the refine process, if the file was color converted during refining. If the file was not color converted during refining, the profile defined in the **Input Device Conditions** box will be used.

Select **Exactly as Defined Below** to use the profile selected in the **Input Device Conditions** box.

Source or DeviceLink Profile

Available when **Assumed Source or DeviceLink Profile** is set to **As Defined Below**, **if not set in Refining** or **Exactly as Defined Below**.

From the list, select **Browse** to locate the appropriate profile file.

Rendering Intent

Select **Relative Colorimetric** if the proofing paper is similar to the paper that will be used during final output.

Select **Absolute Colorimetric** to simulate the color of the paper that will be used during final output.

Select **PDF** to use the rendering intent specified in the PDF file when output by the creative software during final output.

Select **Perceptual** to use rendering that uses gamut compression and produces less saturated colors during final output.

Select **Saturation** to make sure colors are represented in a way that preserves or emphasizes saturation during final output.

Retain CMYK Black

Preserves black in images and graphics that are defined in CMYK or RGB color space. For ICC-based color matching engines, CMYK images and graphics get transformed from CMYK to L*a*b* and back to CMYK color in order to perform color matching. In going from CMYK (four components) to L*a*b* (three components) and back again, the black (K) channel separation information (UCR/GCR) has in the past been destroyed. Selecting this check box instructs the Color Matcher to preserve the black generation information from the source color space. As a result, the amount of black relative to CMY in the images and graphics stays about the same. The purpose of this feature is to help preserve the visual weight of images and graphics.

Note: When you enable this feature, Color Matcher requires some additional processing time because of the extra calculations involved.

Overprint Handling (CPU Intensive)

(See About overprint handling)

Select to prevent overprinting objects from generating unintended knockouts. If you are converting spot colors to process for a proof, or if you are color-matching one CMYK space to another CMYK space for a proof, you probably need to apply overprint handling, even if you applied it during refine.

To use overprint handling, you must perform these actions:

- i. In the **ColorConvert** section, select:
 - The Color Matcher JTP
 - The Match Colors in Page Content check box
 - The **Overprint Handling** check box
- ii. Choose between raster and vector overprint handling in the **Method** list.

Note: The raster option is available only when **Shades=256** is selected in the **Render** section of the process template.

Method

Choose to use vector or raster overprint handling for this output process.

Select **Raster** when outputting to low-resolution contone proofers (for example, Veris digital proofer or Matchprint Inkjet proofer).

Note: To use raster overprint handling, you must select **Shades=256**, in the **Render** section of the process template.

Additional factors to consider:

- Raster overprint handling can be applied only to continuous tone data
- Raster overprint handling occurs after the RIP
- Raster processing time increases exponentially as the resolution increases
- Raster overprint handling eliminates all overprints

Select **Vector** when outputting to halftone (screen) proofers (for example, the Spectrum device), or to high-resolution contone proofers.

Additional factors to consider:

- Vector overprint handling occurs before the RIP
- Depending on the complexity of the file, vector overprint handling could take longer than raster overprint handling.
- Vector overprint handling does not eliminate all overprints. In objects where overprinting does not have an effect on the output, the objects retain an overprint status. For example, if you set black to overprint, but one black object is not placed on top of another object, this black object is, after overprint handling, still an overprinting object.

Process CEPS Data

Select this check box to enable spot color mapping and color matching of CEPS data. For more information, see CEPS Conversion section of the Refine process template and Normalize section of the refine process template.

Process Marks

Select this check box when you want to apply color management to your marks file. Depending on the type of mark, it may be necessary to enable **Overprint Handling** to appropriately convert the mark and apply the necessary color transformation.

Note: When **Process Marks** is checked, both sheet marks and page marks are color managed.

Color match 1-bit images

Select this check box to color match 1-bit images. One-bit images are images that represent two tones, typically black and white. The pixel is either a 0 or a 1 value. Examples are copydot images.

Note: This feature will convert 1-bit images to 8-bit images. This causes pages to become larger and to render more slowly. Turn off this feature if you do not require color matching of 1-bit images, or if the feature causes unacceptable performance degradation. (For example, copydot files take a very long time to refine and render.) This feature is available when **Match Colors in Page Content** is selected.

Preserve Colors

Preserve White and Black Colors for Graphics

When this option is selected, the Color Matcher JTP bypasses pure white and pure black. For example, if an input file has a build of 0,0,0,100, Color Matcher does not touch the input build of pure black, for graphics only. Similarly, for pure white, if an input file has a CMYK build of 0,0,0,0, Color Matcher does not touch the input build of pure white. The following builds are also preserved:

- ° 255,255,255 RGB
- 0,0,0 RGB
- 255 Gray
- 0 Gray

Preserve Any CMYK Pure Black for Graphics

When this option is selected, Color Matcher bypasses all CMYK (0, 0, 0, 0...100) colors. The options are available regardless of whether ColorFlow is used. The options are also unrelated to the use of a DeviceLink profile.

Proof Process (Destination) Profile

Enables the ICC profile for a proofing device. The ICC profile characterizes the way the proofing device prints.

Enable this feature by selecting a profile in the **Process (Destination) Profile** box. Leave this box blank to disable the feature.

Source of Color Recipes

Extract Recipe from the File

Select to use the color recipes embedded in the file.

Lookup Recipe in Color Database

Select to use the color libraries selected in this process template.

Color Libraries

Selectable and Selected

From the **Selectable** list, select the color libraries that you want Prinergy to search for color recipes, and click **Add**.

Arrange the color libraries in the **Selected** box in the order (descending) that you want them to be searched. Use the **Move Up** and **Move Down** buttons.

Note: make sure that you select color libraries with color spaces that are compatible with the **Final Output Process Profile** box of the **Spot Color Handling** section of the refine process template.

Note: Color libraries with a name that begins with System appear at the top of the a selected color libraries list, in any new refine or output process template.

Use Recipe from File if not found in Color Database

Select this check box to use color recipes embedded in the file if Prinergy does not find the colors in the selected color libraries.