## User Guide

Language

# Implementing Spotless in Prinergy

Internal 731-00095B-EN Rev A

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Kodak

# Implementing Spotless in Prinergy

User Guide

Kodak

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# 1 Overview

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# Who Should Use This Guide

This manual is intended for anyone who uses or administers *Spotless* with a *Prinergy* system. It explains how to set up and use *Prinergy* software for *Spotless* printing. This manual assumes that:

- All the hardware, software, and network components of your Kodak system are installed, configured, and operating correctly.
- Files submitted to the Kodak system are free of common errors usually resolved during preflight, such as missing fonts and *PostScript* errors.

# What Is Spotless?

*Spotless* is a printing method that reproduces spot colors with process colors rather than special inks.

A separate standalone utility, *Spotless* Color Toolkit, transforms a library of spot colors into easy-to-manage, digital libraries of process color recipes that are based on a print condition—typically an ink set, press, and substrate. The color recipes are stored in a color library in *Prinergy* Workshop and used to convert spot colors to process color.

## Spotless Recipes

A *Spotless* color recipe is the tint percentages of the process color set that overprint to produce the same CIELAB color as the spot color does.

The recipes for spot colors can be combinations of CMYK, or the recipes could be combinations of an extended process color set such as cyan, magenta, yellow, black, orange, and violet (CMYKOV).

| | | | |
|---|---|---|---|
| Four-color ink set | PANTONE 265 C | Magenta<br>Cyan | 53.6%<br>68.8% |
| Six-color ink set | PANTONE 265 C | Magenta<br>Violet | 13%<br>64.4% |

## Prinergy Multiple Color Libraries

This feature lets you manage multiple color recipes for the same spot colors. Each library can contain spot color recipes tailored to a specific output device or print condition.

For example, consider libraries containing recipes for PMS colors. One library might contain default CMYK recipes supplied by *PANTONE*, a second would hold recipes for spot color simulation on a Kodak *Veris* digital proofer, and a third would contain seven-color builds for *Spotless* printing.

In each of the three libraries, the spot color names are the same but the recipes are tailored to the specific output condition. When you convert spot colors to process builds, the refine or output process template lets you select which color library or libraries to search for color recipes.

# Requirements for Spotless

For four-color and six-color ink sets, *Spotless* requires *Prinergy Connect* or *Prinergy Powerpack* software version 2.3.1.3.

For five-color and seven-color ink sets, *Spotless* requires *Prinergy Connect* or *Prinergy Powerpack* software version 3.0.3.1.

For a complete list of requirements, see the Spotless Customer Preparation Guide.

# Limitations

With composite input files and *Prinergy*, you can convert all spot colors to process colors, or you can map selected spot colors to other spot colors.



**Important:** *Prinergy* only lets you map a spot color when it is defined as a unique separation in the *PostScript* code. *Prinergy* is unable to map any other definitions of a spot color. You define a spot color as a unique separation in *Adobe Illustrator* software, for example, when you select the **Spot** check box for the color.

## Composite Workflow

*Prinergy* supports composite and separated input files. However, to use the color management and trapping features of *Prinergy*, you must use a composite workflow.

An acceptable file type is any customer file type that can be refined in *Prinergy* to produce a composite PDF. The following file types are acceptable:

- Composite *PostScript* and PDF files generated by *Adobe InDesign*, *QuarkXPress*, and *Macromedia Freehand*
- *Adobe Illustrator* EPS and PDF files
- Placed *Adobe Photoshop* DCS (Desktop Color Separation) raster files, provided Prinergy OPI is used during refine

The following input file types are not acceptable:

- DCS vector files from any application
- DCS copydot raster files from any application

**Note:** If you have pre-separated EPS files and recombine in *Prinergy*, the resulting PDF file is *NOT* a composite file.

**Note on PDF files:** If it's a PDF composite file, it will work. If it is a pre-separated PDF file, it also requires Seps2Comp to separate (same as above).

# Staccato Extended Color Screens

Kodak supports *Spotless* printing with *Staccato* stochastic screening software. *Staccato* screening offers color stability, smooth tint builds, and the ability to overprint four or more screens without moiré.

*Spotless* includes a license for *Staccato* Extended Color Screens, which provides 10 unique patterns per *Staccato* screen. The additional patterns make it possible to have a unique *Staccato* screening pattern for each process color in your extended process color ink set.



**Note:** Since *Staccato* Extended Color Screens is an upgrade for *Staccato* version 10/20/25, *Staccato* version 10/20/25 must be installed and available before you can license *Staccato* Extended Color Screens.

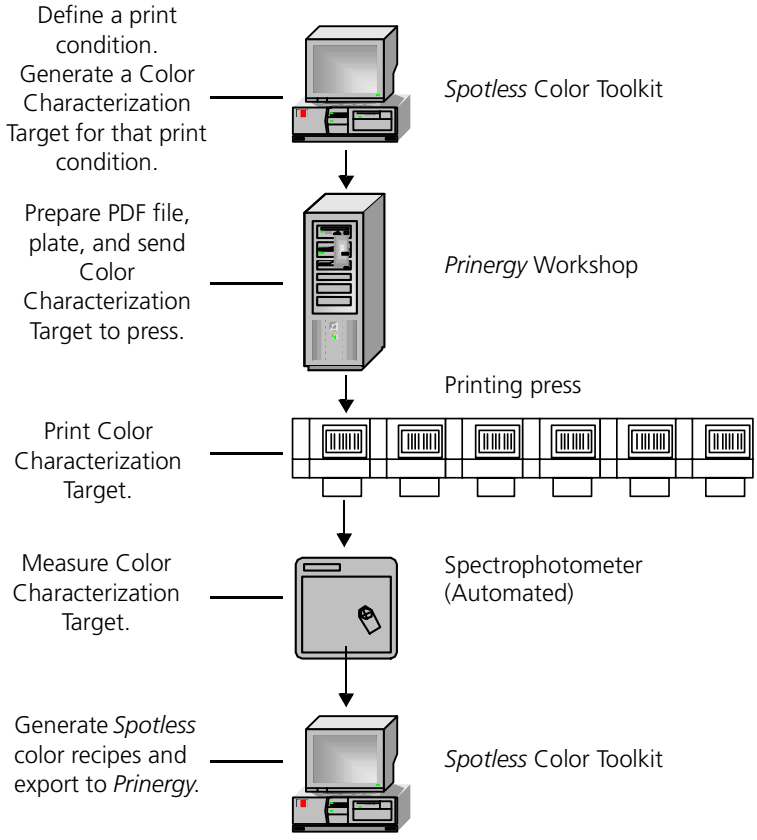
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# Using Spotless Recipes in Prinergy

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# Generating Recipes in Spotless Color Toolkit for a Print Condition

*Spotless* Color Toolkit converts spot color CIELAB color values to *Spotless* recipes for a specific print condition (press, ink, and paper) and then exports the recipes to *Prinergy*. The following figure shows the steps for generating recipes.






See the Spotless Color Toolkit PDF help for instructions for each step.

# Adding the Recipes and Profile to Prinergy

The profile, created in the *Spotless* Color Toolkit for the print condition, is used in *Prinergy* to:

- Declare process colorant names
- Allow viewing (via tint transform) of refined PDF files with approximate color in *Adobe Acrobat*
- Allow proofing of a refined PDF file with color management

### To copy the profile:

**Note:** This step may not be necessary if you exported your profile from the *Spotless* Color Toolkit to a *Prinergy* share.

1. Make a folder called **Spotless** in a shared *Prinergy* folder such as **AraxiHome\CreoAraxi\data\ICC-Profiles\Spotless.**
2. Copy the refine destination profile to the **Spotless** folder.

### To copy Spotless recipes to Prinergy:

**Note:** This step may not be necessary if you exported your recipes from the *Spotless* Color Toolkit to a *Prinergy* share.

1. Create a folder called **SpotlessRecipes** under **\CreoAraxi\data** or in a default *Prinergy* share.
2. Copy the recipe file to the **SpotlessRecipes** folder.

# Color Space Editor: Creating a Color Space

## Spotless for CMYK Ink Sets

If you are implementing *Spotless* with a CMYK ink set, your CMYK color space already exists in *Prinergy*. Skip this section and continue with the next section, “Color Editor: Importing the Spotless Color Recipes” on page 11.

## Spotless for Extended Process Color Ink Sets

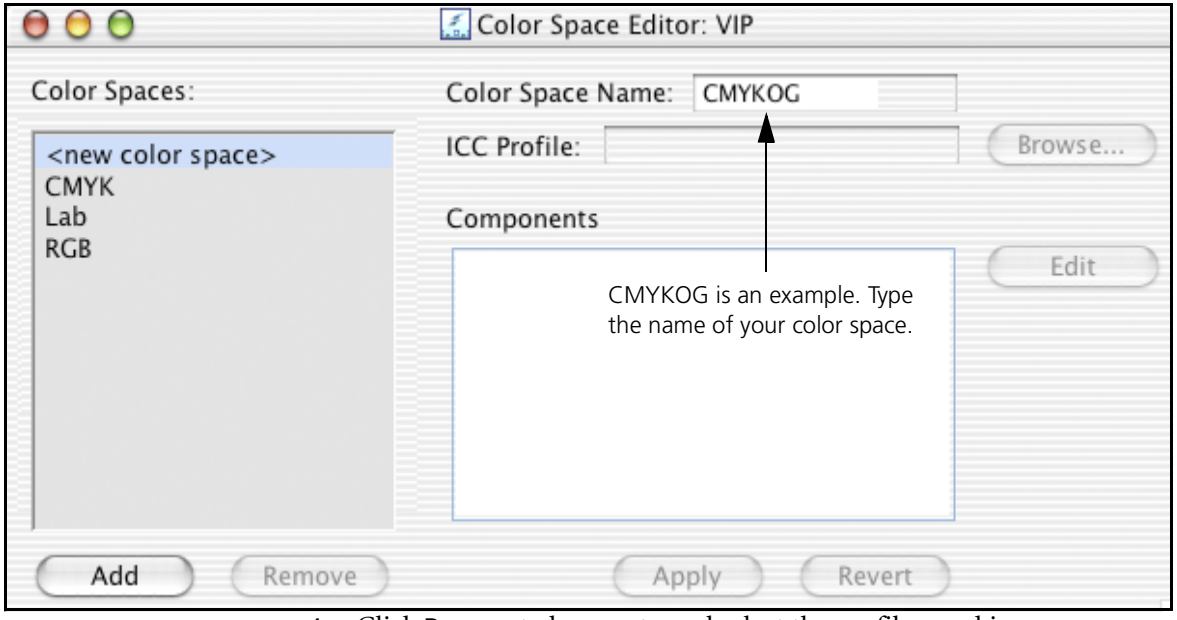
A color space includes the name of the color space and the names of the colorants used to print the space. For example, CMYKOG is a color space name that includes cyan, magenta, yellow, black, orange, and green colorants. You must create the color space in *Prinergy* before you import *Spotless* color recipes. Also, the color space names in *Prinergy* and the *Spotless* Color Toolkit print condition (for which the *Spotless* color recipes were generated) must match.

**To create a color space and designate colors:**

1. From the **Tools** menu, select **Color Space Editor**.
2. In the Color Space Editor dialog box, click **Add**.

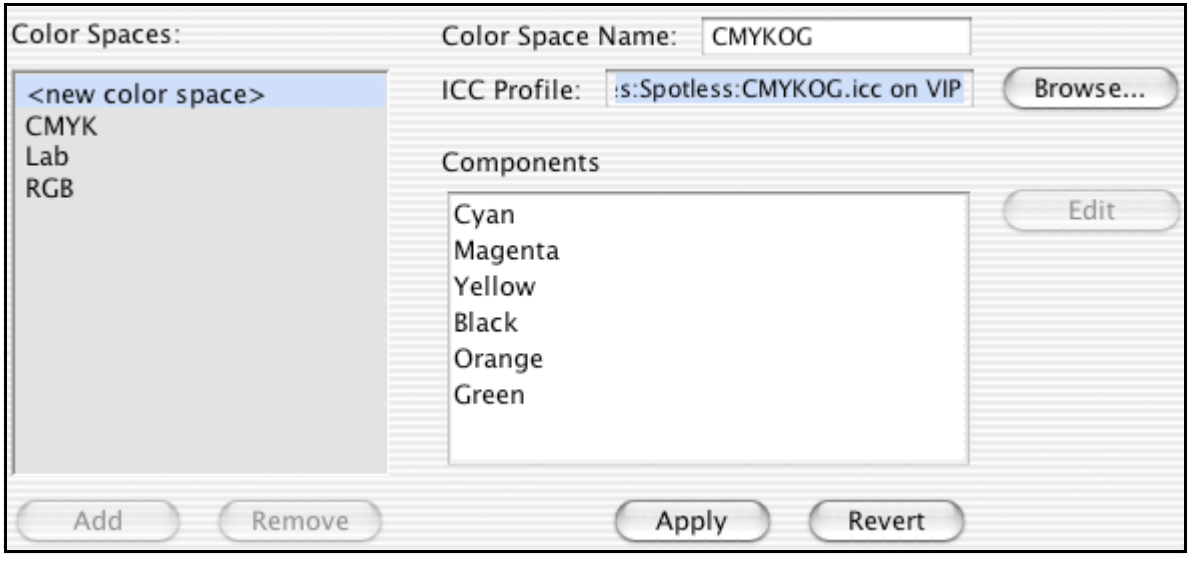
   **<new color space>** appears in the **Color Spaces** box.

3. Type a name in the **Color Space Name** box, which represents the first letter of each colorant name in your color space.




4. Click **Browse** to browse to and select the profile saved in **AraxiHome\CreoAraxi\data\ICC-Profiles\Spotless** or your alternate location.

   The colorant names from the profile appear in the **Components** box.

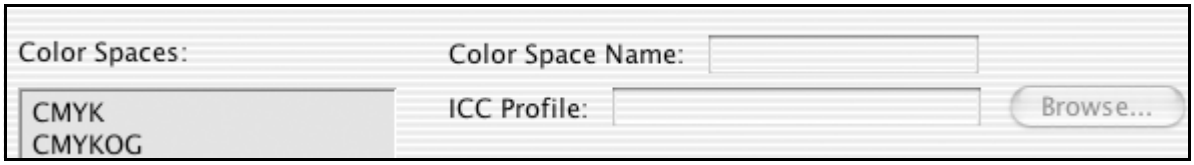


**Important:** The colorant names used in the *Spotless* color recipes must match the colorant names in the color profile.
You must also use the same colorant names in the **Screen Angles** box in the **Calibration & Screening** section of proof and final output process templates, if you're using *Staccato* Extended Color screens.

5. Modify the colorant names if necessary: select the colorant name in the **Components** box and click **Edit**. (The colorant names may appear as Colorant 1, Colorant 2, ...Colorant 6.)

6. Click **Apply.**

   The new color space appears in the **Color Spaces** box.

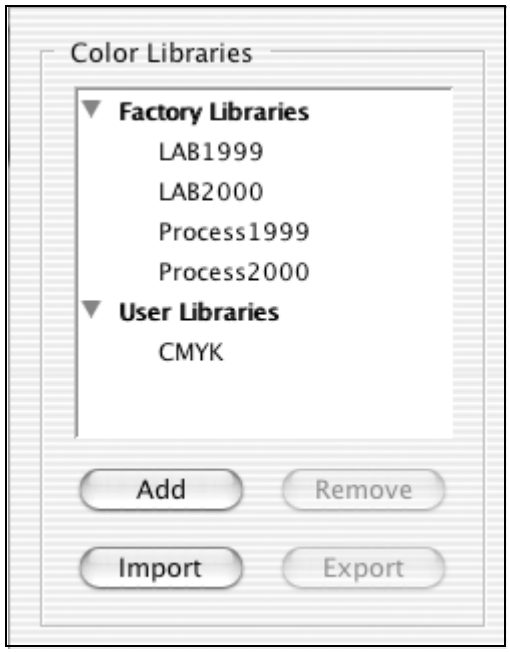


# Color Editor: Importing the Spotless Color Recipes

*Prinergy* imports the **.dat** file of color recipes, created by the *Spotless* Color Toolkit, into a User Library in the Color Editor.

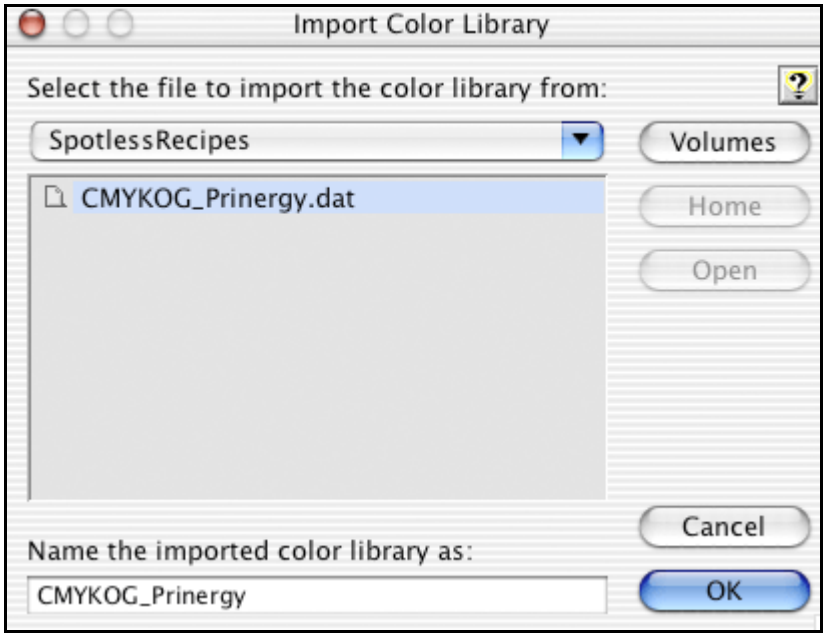
**Important:** You must create the color space in *Prinergy* before you import *Spotless* color recipes. Also, the color space names in *Prinergy* and the *Spotless* Color Toolkit print condition (for which the *Spotless* color recipes were generated) must match. See "Color Space Editor: Creating a Color Space" on page 8.

1. From the **Tools** menu, select **Color Editor.**




2. Click **Import.**

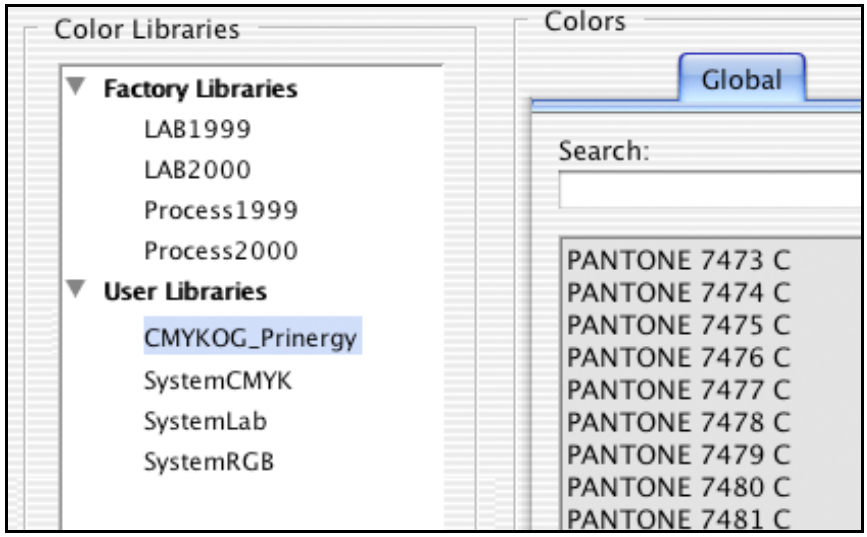
3. Browse to **SpotlessRecipes** under **\CreoAraxi\data** or your default location and select the recipe file. (The example shows a six-color file.)




4. To give the library a name that is different from the recipe file name, type the new name in the **Name the imported color library as** box.

5. Click **OK**.

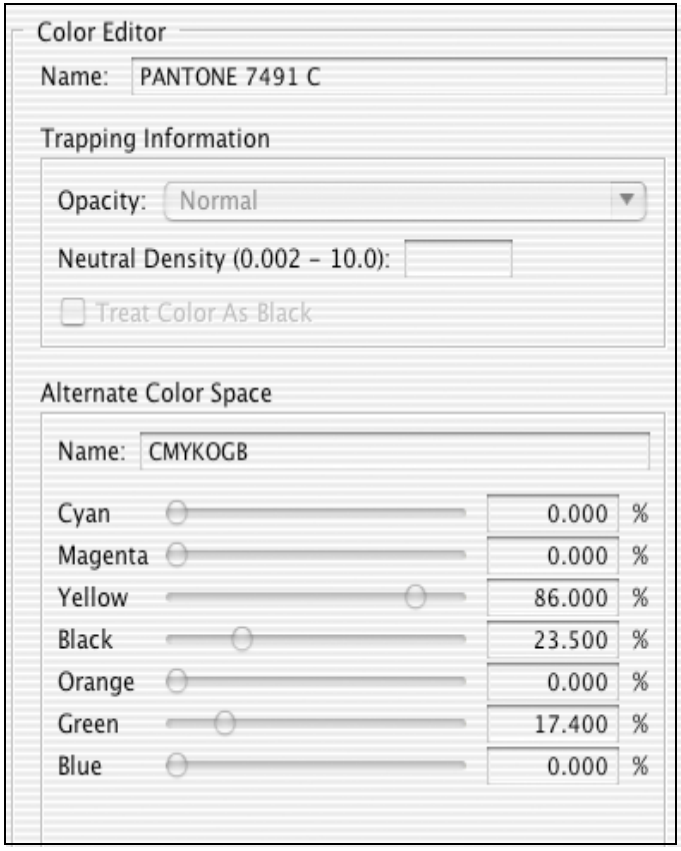
   The new library appears under **User Libraries** in the **Color Libraries** box.




6. Click the library name and the recipes load and appear in the **Colors** area of the Color Editor.

7. To display the recipe for individual colors, click the color name.

   The recipe appears in the **Alternate Color Space** box to the right.




## Adding Color Recipes to Individual Jobs

Once you have a User Library defined with the *Spotless* recipes, there is nothing unique to *Spotless* for adding color recipes to individual jobs. Refer to the *Prinergy* online help for information on this topic.

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# Refine Process

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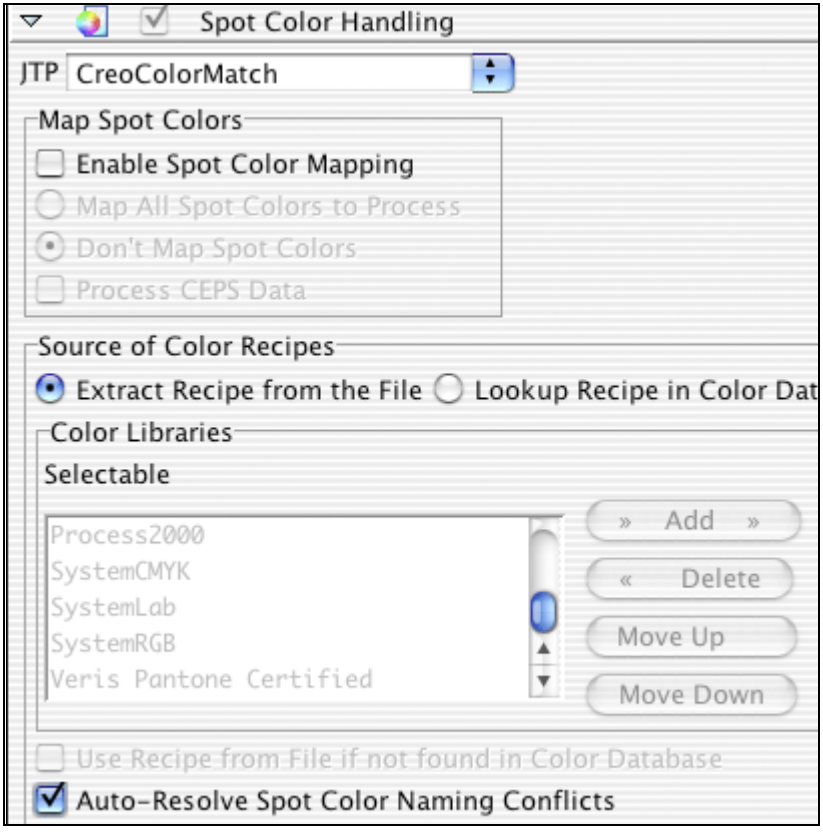
# Configuring a Process Template for Refining Input Files

Configure a process template for refining input files and leaving colors in the input file as is.

**Important:** Both trapping and thumbnail creation must take place when you refine pages (not input files).

**To set up Spot Color Handling:**

1. Open an existing process template for refining input files.
2. From the **JTP** list, select **CreoColorMatch**.




3. Clear the **Enable Spot Color Mapping** check box (to retain spot colors as they are identified in the input file).

4. Select **Extract Recipe from the File**.
5. Select the **Auto-Resolve Spot Color Naming Conflicts** check box.

   This option automatically resolves identical *PANTONE* spot color names with C, CV, CVC endings to have the same ending (always C), so the colors map to the same separation.

   **Note:** *Prinergy* resolves *PANTONE* spot color names with U and CVU endings to U endings. If you want to map the U spot colors to the same separation as the coated, you'll either need a third refine or a separate library with CVU colors defined.

6. In the **Final Output Process Profile** box, use the profile generated by *Spotless* Color Toolkit. This is the same profile you used in the Color Space Editor to set up the color space.

   Because this refine process does not map spot colors or separate images, you can use the profile generated by *Spotless* Color Toolkit.

7. From the **File** menu, select **Save As** to save the process template with another name.

# Configuring a Process Template for Refining Pages

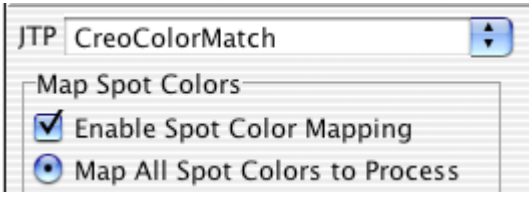
The purpose of this process template is to map spot colors and to convert images and graphics in the PDF files to *Spotless* process colors.

**Important:** Both trapping and thumbnail creation must take place when you refine pages (not input files).

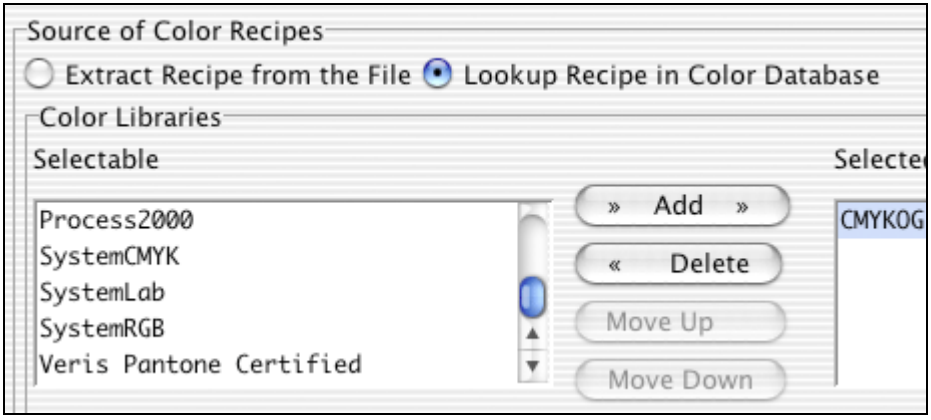
## Setting Up Spot Color Handling

**To set up spot color handling:**

1. Open an existing process template that is configured to refine pages.
2. From the **JTP** box, select **CreoColorMatch**.
3. Select **Enable Spot Color Mapping**.
4. Select **Map All Spot Colors to process**.




5. Select **Lookup Recipe in Color Database**.
6. Select the *Spotless* color library from the **Selectable** list and click **Add.**



7. If any other libraries are in the **Selected** box, select each one and press **Delete** to move it to the **Selectable** box.
8. In the **Final Output Color Space** box, select an ICC profile that reflects the *Spotless* printing color space.

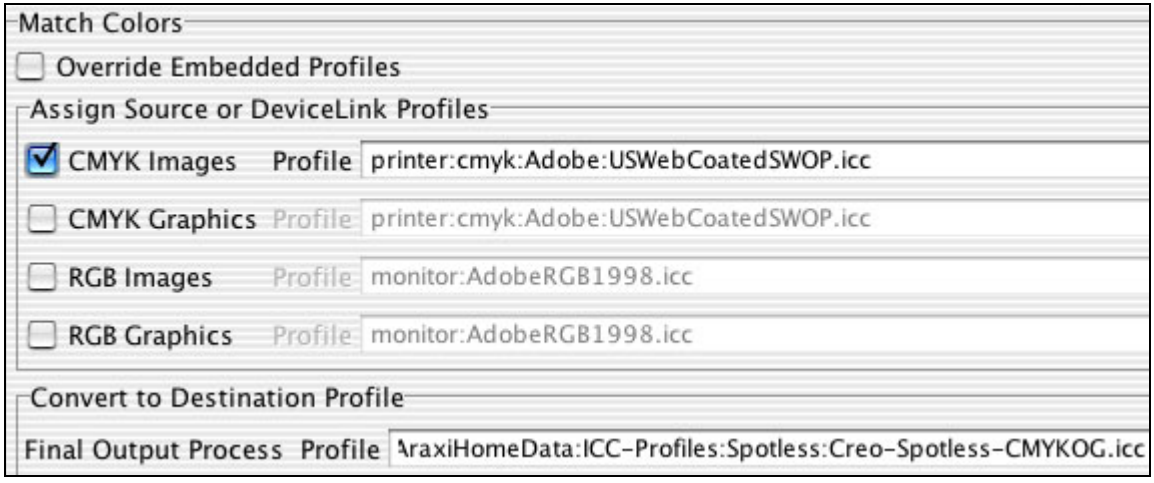
   For *Spotless* with extended process colors (five or more process colors), this profile must contain the correct extended process colorants, and the colorant names must match those in the Color Space Editor.

   If you are not converting CMYK or RGB images and graphics, you can use the ICC profile generated by *Spotless* Color Toolkit.

## Setting Up Color Conversion

You use the **ColorConvert** section to select and control the conversion of some or all of the following to *Spotless* process colors:

- CMYK images
- CMYK graphics
- RGB images
- RGB graphics




If you want to convert any of these objects, the **Final Output Process Profile** box must specify a separation profile that separates graphics and images into the *Spotless* process color space.

For *Spotless* with extended process colors (five or more process colors), this profile must contain the correct extended process colorants, and the colorant names must match those in the Color Space Editor.

Table 1 on page 20 provides recommendations for CMYK and RGB images, and Table 2 on page 21 provides recommendations for CMYK and RGB graphics.

Table 1: Recommendations for CMYK and RGB images

| For This Object | With This Ink Set | Do This... |
|---|---|---|
| CMYK images | CMYK | Do not convert CMYK images. Clear the **CMYK Images** check box. |
| | Extended process colors | Convert CMYK images to the extended process color set:<br>1. Select the **CMYK Images** check box.<br>2. Browse to and select a CMYK source profile or a devicelink profile for the extended process color set.<br>3. In the **Final Output Process Profile** box, browse to and select a separation profile for the extended process color set. |
| RGB images | All ink sets | Convert RGB images:<br>1. Select the **RGB Images** check box.<br>2. Browse to and select an RGB source profile or a devicelink profile.<br>3. Take one of the following actions:<br>• For CMYK ink sets, in the **Final Output Process Profile** box, browse to and select a color separation profile for the process color set.<br>• For extended process color ink sets, in the **Final Output Process Profile** box, browse to and select a color separation profile for the extended process color set. |

Table 2: Recommendations for CMYK and RGB graphics

| For This Object | With This Ink Set | Do This... |
|---|---|---|
| CMYK graphics | All ink sets | Leave CMYK graphics as is. Clear the **CMYK Graphics** check box. |
| RGB graphics | All ink sets | Your design file may contain RGB graphics, though this practice is not recommended for accurate color reproduction. If there are RGB graphics and you disable conversion by clearing the **RGB Graphics** check box, the job will fail on output. If you choose to convert RGB graphics:<br>1. Select the **RGB Graphics** check box.<br>2. Browse to and select an appropriate source or devicelink profile.<br>3. Take one of the following actions:<br>• For CMYK ink sets, in the **Final Output Process Profile** box, browse to and select a color separation profile for the process color set.<br>• For extended process color ink sets, in the **Final Output Process Profile** box, browse to and select a color separation profile for the extended process color set. |

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# Overview

## Proofing for CMYK Process Colors

Proofing CMYK process colors requires no changes to existing proof process templates, except for the ICC profiles used for contone proofing. Use the ICC profile that was generated for the print condition by the *Spotless* Color Toolkit as a source profile. Or for a *Matchprint* Inkjet proofer or Kodak *Veris* digital proofer, use the profile provided by the Kodak Color and Print Analysis Lab.

**Note:** Depending on your ink set, Kodak may provide a devicelink ICC profile or an ICC profile.

## Proofing for Extended Process Colors

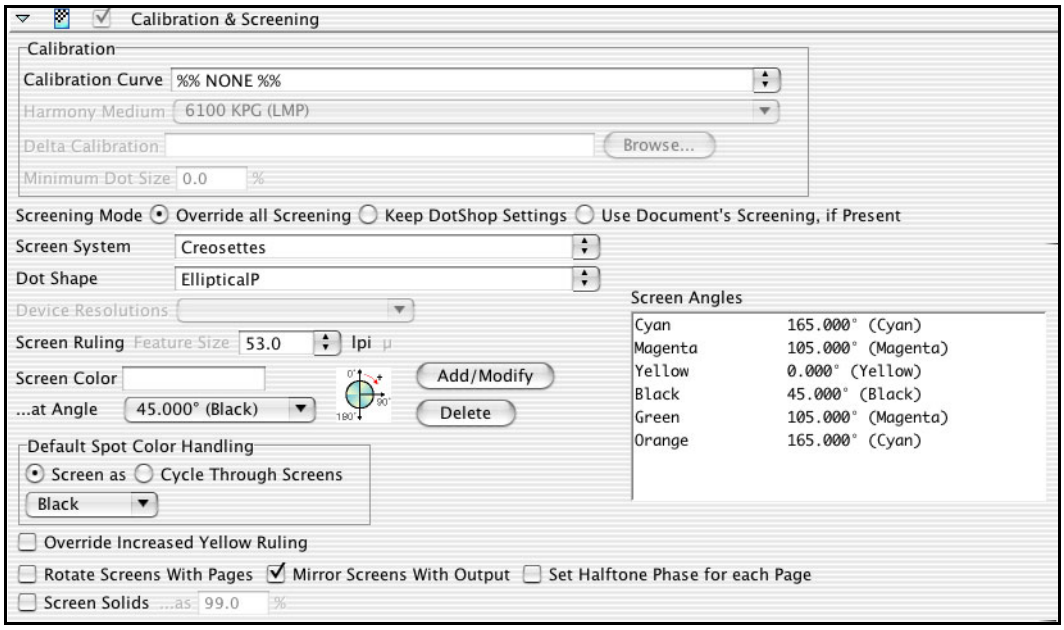
This chapter describes how to modify existing proof process templates (loose page /1-up artwork and imposition/layout) for proofing extended process colors.

# Process Color Separations for Prinergy Virtual Proofing Software

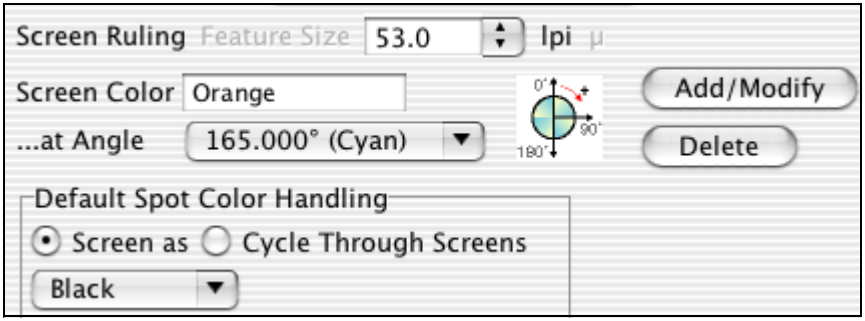
You need a process template that provides the correct number of color separations (four, five, six, or seven) for viewing in *Prinergy* Virtual Proofing software.

**To modify an existing Prinergy Virtual Proofing software proof process template:**

1. Expand **Calibration & Screening**.
2. For **Calibration Curve**, select **%%NONE%%**.




3. For **Screening Mode**, select **Override all Screening.**
4. For **Screen System**, select **Creosettes.**
5. For **Dot Shape**, select **EllipticalP.**
6. Add screen angles for the fifth, sixth, and seventh process colors, as necessary:
   a. Type the process color name in the **Screen Color** box.




   b. Select a screen angle from the **at Angle** list and click **Add/Modify.** The color appears in the **Screen Angles** box.

7. From the **File** menu, select **Save As** to save the process template with another name.

# Proofing With an Inkjet Proofer (Contone)

## What ICC Profiles Do I Need?

CMYK inkjet proofers typically reproduce the entire color gamut of CMYK process inks and give good simulation of color on proof when the correct ICC profiles are used. They may or may not accurately simulate the gamut extremes provided by the extended process colors. To proof a *Spotless* print job, you need either a devicelink profile or a pair of profiles.

Table 3: About devicelink profiles and pairs of profiles

| | |
|---|---|
| Devicelink profile | A devicelink profile contains information for both the proofer and source color space in one profile. If you have a *Matchprint* Inkjet proofer or a Kodak *Veris* digital proofer, you may receive a press-to-proof devicelink profile created in the Kodak Color and Print Analysis Lab (depending on your ink set). |
| Pair of profiles | One ICC profile is a four-color proofer profile (used as a destination profile). If you have a *Matchprint* Inkjet proofer or a Kodak *Veris* digital proofer, you may receive a proofer profile created in the Kodak Color and Print Analysis Lab (depending on your ink set). Alternately, Kodak *Veris* digital proofer and *Matchprint* Inkjet proofers come with default proofer profiles. |
| | The other ICC profile is a four-color or extended process color press profile (used as a source profile) created in the *Spotless* Color Toolkit from the press characterization data. See the *Spotless* Color Toolkit online help for details. |

You must copy the devicelink and/or ICC profile to Prinergy and import it into *Kodak* Proofing Software. The procedure for Prinergy is next. For details on importing profiles into *Kodak* Proofing Software, see the *Kodak* Proofing Software online help.

**To copy profiles to *Prinergy*:**

1. In *Prinergy* Administrator, set up the **AraxiHome** folder so it appears as a shared volume in *Prinergy* Workshop. For details, see the *Prinergy* Administrator online help.
2. Copy your devicelinks or proofer ICC profiles into the following folder on the *Prinergy* server:
   **AraxiHome\CreoAraxi\Data\ICC Profiles\Printer\<proofer name>**.

   The source profile should already be in **AraxiHome\CreoAraxi\Data\ICC Profiles\Spotless**.

# Setting Up a Loose Page Output Proofing Process Template for Inkjet Proofing

The method described here is to modify an existing *Matchprint* Inkjet or Kodak *Veris* process template for an extended process color workflow, and then save it as a new process template. The settings are the same for both inkjet proofers, unless indicated.

1. Open an existing loose page output process template for a *Matchprint* Inkjet or Kodak *Veris* proofer.
2. In the **Output To** list, select **Veris/Matchprint Inkjet**.

**To set up the Device section of the process template:**

1. In the **Proofer Name** list, select the proofer.
2. In the **Proofer Model** list, select the proofer model. Some versions of *Prinergy* automatically display the proofer model.

**To set up the Render section of the process template:**

1. For **Shades**, click **256**.
2. Clear the **Do Separations** check box.
3. From the **Spot Color Handling** list, select **Convert to Process**.
4. Clear the **Always Use Color Combiner to Convert Spots** check box.

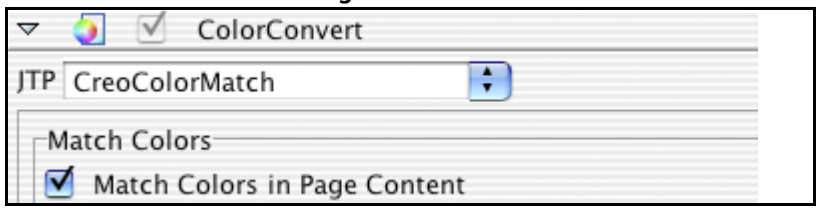
5. For *Matchprint* Inkjet proofers, specify a resolution. The resolution cannot be altered for Kodak *Veris* digital proofers.
   - If your resolution is **360x360 dpi**, select the **Anti-Aliasing** check box and select **4** in the **at Ratio** list.
   - If your resolution is **720x720 dpi**, clear the **Anti-Aliasing** check box.
6. Set other options as desired.

**To set up the Layout section of the process template:**

1. In the **Media Configuration** list, select the media configuration for the proofer and ICC profiles that you're using.
2. In the **Proofer Layout** list, select the layout that you configured in Kodak Proofing Software for the proofer.

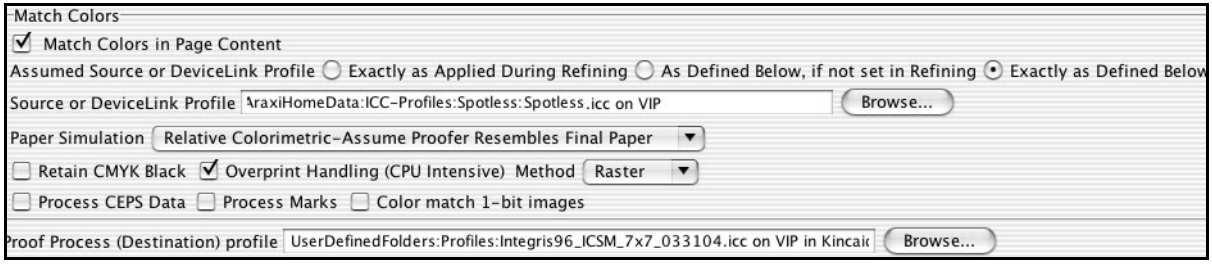
**To set up the ColorConvert section of the process template:**

1. In the **JTP** list, select **CreoColorMatch**.
2. Select the **Match Colors in Page Content** check box.



3. Select **Exactly as Defined Below**.
4. Select a **Source or DeviceLink Profile** and a **Proof Process (Destination) profile**. The following table describes how to use a devicelink and a pair of profiles.

| For This Profile | Do This... |
|---|---|
| DeviceLink | For **Source or DeviceLink Profile,** click **Browse** to navigate to **AraxiHome\ CreoAraxi\ Data\ ICC Profiles\ Printer** and select the devicelink profile provided by the lab.<br><br>Leave the default **Proof Process (Destination) profile** as is. It is not used with a devicelink profile. |
| Pair of profiles | For **Source or DeviceLink Profile,** click **Browse** to navigate to **AraxiHome\ CreoAraxi\ Data\ICC-Profiles\ Spotless** and select the source (press) profile. You can use the ICC profile generated by *Spotless* Color Toolkit.<br><br>For **Proof Process (Destination) profile,** click **Browse** to navigate to **AraxiHome\ CreoAraxi\ Data\ ICC Profiles\ Printer** and select the four-color destination (proofer) profile. You can use the proofer profile provided by the lab. |




**Note:** For **Paper Simulation**, leave the default as is when using a devicelink supplied by Kodak. When using a pair of ICC profiles, set **Paper Simulation** as desired.

5. For **Source of Color Recipes**, click **Extract Recipe from the File**.

   **Note:** For the handling of unconverted spot colors, die lines and so forth, see "Handling Color Exceptions" on page 30.

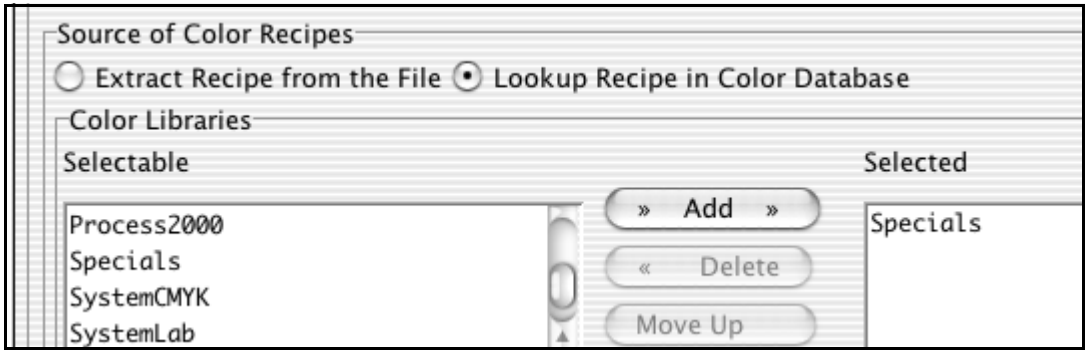
6. From the **File** menu, select **Save As** to save the process template with another name.

## Handling Color Exceptions

In some jobs, not all spot colors are converted—metallics, for example. You may also have die lines, keylines, and varnishes.

You can handle these exceptions by creating a Specials color library in the Color Editor that shows how to map these colors. You then set the **ColorConvert** part of your process template to look up the recipes for the exceptions.

1. Click **Lookup Recipe in Color Database**.
2. In the **Selectable** list, select the **Specials** color library.
3. Click **Add** to move it to the **Selected** list.
4. If other libraries appear in the **Selected** box, select each one and press **Delete**, to move it to the **Selectable** box.




# Digital Halftone Proofing

Kodak is currently developing a solution for digital halftone proofing.

5

# Plate Process Templates

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# Overview

The final output process template lets you select *Staccato* Extended Color Screens for *Spotless* printing.

# Staccato Extended Color Screens for Plating

Kodak supports *Spotless* printing with *Staccato* screening. *Spotless* includes a license for *Staccato* Extended Color Screens that provides 10 screen patterns for each *Staccato* screen size.

Keep in mind that your plating media must be qualified for imaging *Staccato* screening. Your sales representative will have a current list of qualified media.

# Harmony Calibration for Plating

For printing with *Staccato* screening, Kodak recommends using a *Harmony* CMYK curve set that lets you monitor and control the gain of each process color and adjust gray balance for image reproduction if necessary. For extended process colors, *Prinergy* will use the common (black) calibration curve unless you create a spot color curve in *Harmony* software for the fifth, sixth, and seventh process colors. Either approach is acceptable.

You use *Prinergy* process templates to select and apply *Harmony* calibration curves. Because *Prinergy* only selects and applies multiple calibration curves through automatic calibration, all curve sets must:

- Match the *Harmony* settings—the same medium index number, screen type, and micron size
- Be enabled in *Harmony*

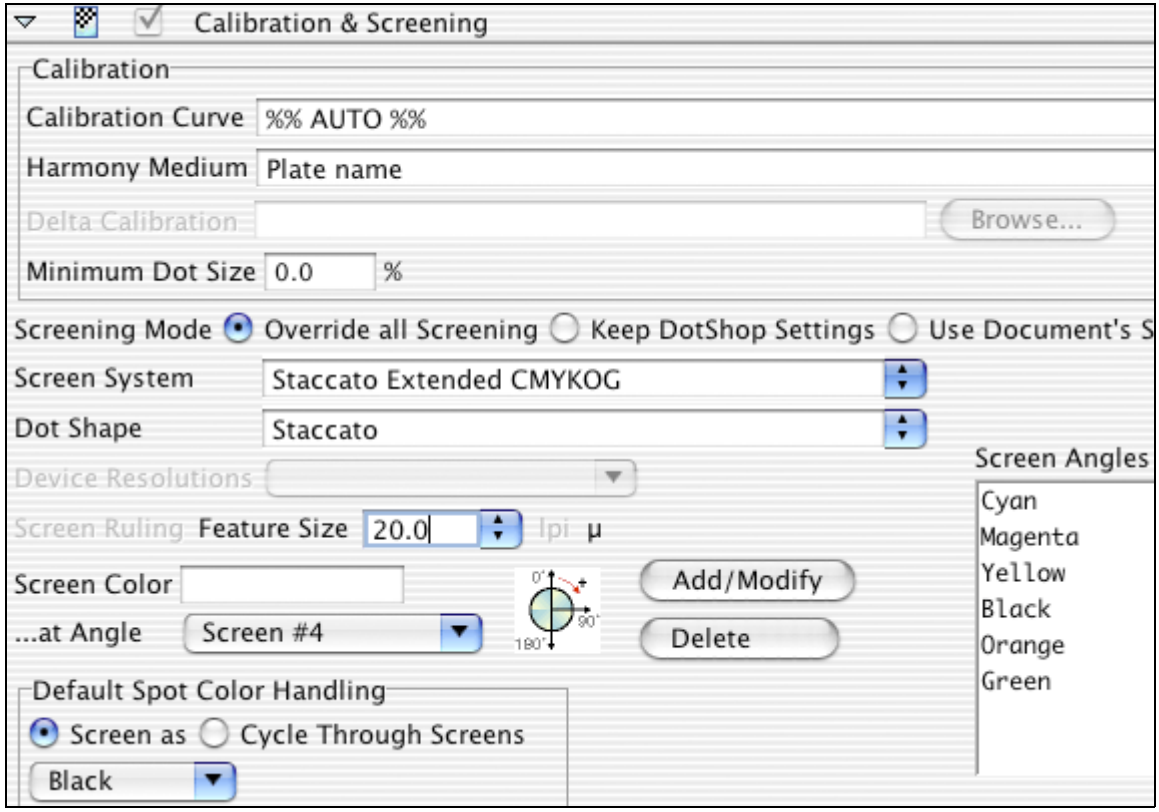


**Important:** The name that you type in the **Screen Color** box must exactly match the colorant names in the Color Space Editor and the colorant names in the ICC profile created in the *Spotless* Color Toolkit.

# Configuring Final Output Process Templates for Extended Process Colors

**To configure a final output process template:**

1. Open an existing final output process template.
2. Expand **Calibration & Screening**.
3. For **Calibration Curve**, select **%% AUTO %%**.
4. For **Harmony Medium**, select the same medium index name or number that you used in *Harmony* software to make the calibration curves.




5. Ensure your calibration curves are enabled in *Harmony*.

6. In the **Screen System** list, select the prenamed extended process color screen set that corresponds to the curves you created in *Harmony*:

   - **Staccato Extended CMYKRG**
   - **Staccato Extended CMYKOG**
   - **Staccato Extended CMYKRB**
   - **Staccato Extended CMYKOB**
   - **Staccato Extended CMYKGB**

   or

   - **Staccato Extended** to add a custom set of colorants.

   If you select one of the five prenamed sets, the colorant names and screen angles appear in the **Screen Angles** box. The colorant names must be the same name as the ones used in the Color Space Editor.

   To modify a color, select the color in the **Screen Angles** box and click **Delete.**

   a. Type a new name in the **Screen Color** box.

   b. Select a screen angle from the **at Angle** list.

   c. Click **Add/Modify.**

      The new color name and associated screen angle appear at the bottom of the **Screen Angles** box.

   If you select **Staccato Extended**, add the color names as follows:

   a. Type a new name in the **Screen Color** box.

   b. Select a screen angle from the **at Angle** list. For screen angle recommendations, see Table 4 on page 35.

Table 4: Recommended screen angles

| Screen Color | Recommended Screen |
|---|---|
| Cyan | Screen #1 |
| Magenta | Screen #2 |
| Yellow | Screen #3 |
| Black | Screen #4 |
| Red/orange | Screen #5 |
| Green | Screen #6 |
| Blue/violet/purple | Screen #7 |

c. Click **Add/Modify.**

d. Continue until all the colors are added.

7. For **Feature Size**, select the same feature size you used to create the curves in *Harmony*.
8. Set other options as desired.
9. From the **File** menu, select **Save As** to save the process template with another name.
10. Close the process template window.

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