User Guide

English

Implementing Spotless in Prinergy

version **1.0**

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Implementing Spotless in Prinergy

version 1.0

User Guide

creo™

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RE37,376	5,283,140	5,517,359	5,699,740	5,969,872	6,134,393	6,283,589
4,456,924	5,291,273	5,519,852	5,708,736	5,973,801	6,136,509	6,295,076
4,500,919	5,323,248	5,526,143	5,713,287	5,986,819	6,137,580	6,299,572
4,558,302	5,325,217	5,532,728	5,742,743	5,995,475	6,147,789	6,318,266
4,743,091	5,339,176	5,561,691	5,764,374	5,996,499	6,158,345	6,340,817
4,992,864	5,343,059	5,568,595	5,764,381	5,998,067	6,159,659	6,352,816
5,049,901	5,355,446	5,576,754	5,771,794	6,003,442	6,164,637	6,353,216
5,079,721	5,359,451	5,579,115	5,785,309	6,014,471	6,180,325	6,366,339
5,081,617	5,359,458	5,592,309	5,802,034	6,016,752	6,181,362	6,371,026
5,103,407	5,367,360	5,594,556	5,813,346	6,031,932	6,181,439	6,377,739
5,111,308	5,384,648	5,600,448	5,818,498	6,043,865	6,186,068	6,387,597
5,113,249	5,384,899	5,608,822	5,854,883	6,060,208	6,189,452	6,396,422
5,122,871	5,412,491	5,615,282	5,861,904	6,063,528	6,191,882	6,396,618
5,124,547	5,412,737	5,625,766	5,861,992	6,063,546	6,204,874	6,407,849
5,132,723	5,420,702	5,636,330	5,875,288	6,072,518	6,208,369	6,414,755
5,150,225	5,420,722	5,649,220	5,894,342	6,090,529	6,214,276	6,422,801
5,153,769	5,459,505	5,650,076	5,900,981	6,096,461	6,217,965	6,435,091
5,155,782	5,473,733	5,652,804	5,934,196	6,098,544	6,252,522	
5,157,516	5,481,379	5,680,129	5,942,137	6,107,011	6,260,482	
5,208,818	5,488,906	5,691,823	5,946,426	6,112,663	6,266,080	
5,208,888	5,497,252	5,691,828	5,947,028	6,115,056	6,266,134	
5,247,174	5,508,828	5,696,393	5,958,647	6,121,996	6,267,054	
5,249,067	5,509,561	5,699,174	5,966,504	6,130,702	6,268,948	

Creo Inc.
3700 Gilmore Way
Burnaby, B.C., Canada
V5G 4M1
Tel: 1.604.451.2700
Fax: 1.604.437.9891

http://www.creo.com

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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 Creo system are installed, configured, and operating correctly.
- Files submitted to the Creo 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. Spotless 4 printing uses CMYK process builds to simulate spot colors that are within the CMYK gamut. Spotless X uses an extended process color set to reach spot colors outside the CMYK gamut.

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.

For Spotless 4, the recipes for spot colors are combinations of CMYK.

For Spotless X, the recipes for all spot colors are combinations of an extended process color set such as cyan, magenta, yellow, black, orange, and violet (CMYKOV).

Spotless 4	PANTONE 265 C	Magenta Cyan	53.6% 68.8%
Spotless X	PANTONE 265 C	Magenta Violet	13% 64.4%

Prinergy's 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 Veris proofer, and a third would contain six-color builds for Spotless X 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 plan lets you select which color library or libraries to search for color recipes.

Requirements for Spotless

The minimum requirement for Spotless is Prinergy Connect® or Prinergy Powerpack® software version 2.3.1.3.

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.

Spotless does not support 1-bit TIFF files for color management and trapping, because they are separated files.

The following table shows both acceptable and unacceptable file types.

Will work with Spotless	Will not work with Spotless
Adobe® Illustrator EPS	1 Bit TIFF
QuarkXPress	DCS 2 (Desktop Color Separation)
Macromedia Freehand	Adobe® Illustrator native
Adobe InDesign	
DCS Contone Raster	
DCS Vector	



Note: DCS Raster is supported by OPI in Prinergy which creates a composite file.

Staccato Extended Color Screens

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

Spotless X 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 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 enabled before you can license Staccato Extended Color Screens.

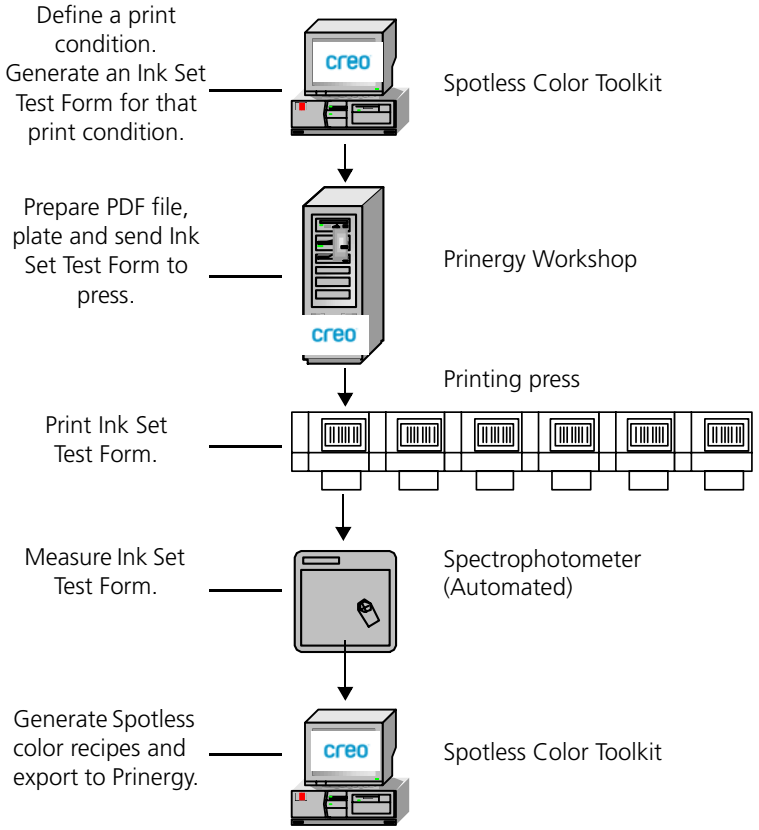
2

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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 Refine (Destination) Profile to Prinergy

The refine (destination) profile, created in the Spotless Color Toolkit for the print conditon, is used in Prinergy:

- To declare process colorant names
- To allow viewing (via tint transfers) of a refined PDF with approximate color in Acrobat
- To allow proofing of a refined PDF with color management

To copy the refine destination 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 4

If you are implementing Spotless 4, your CMYK color space already exists in Prinergy. Skip this section and continue with the next section, *Color Editor: Importing the Spotless Color Recipes*.

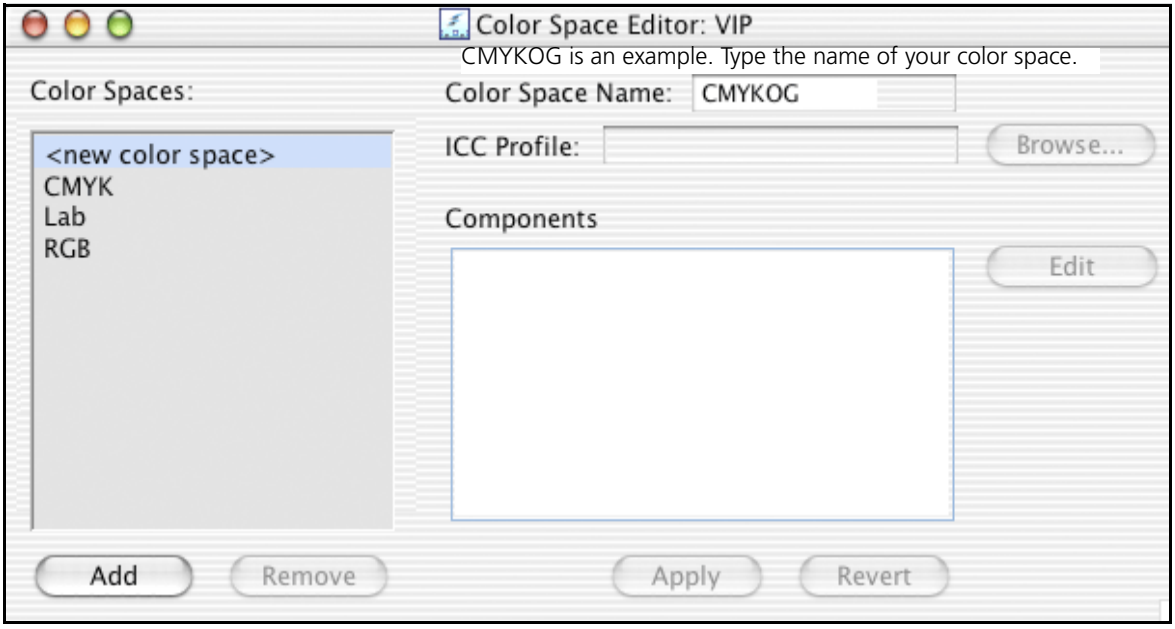
Spotless X

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.

To create a color space and designate colors:

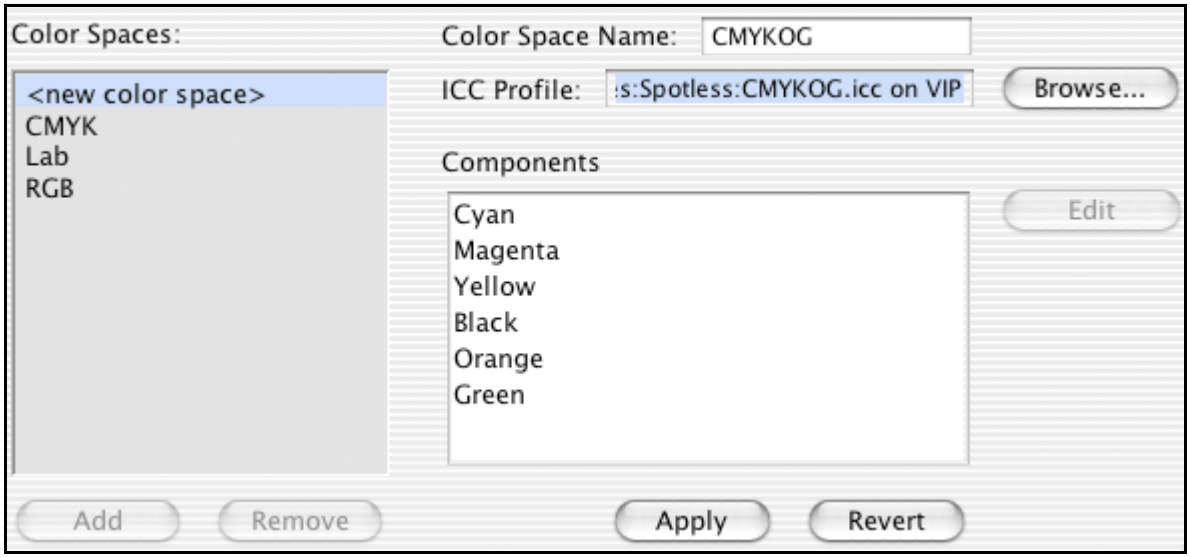
1. From the **Tools** menu, select **Color Space Editor**.
2. In the Color Space Editor dialog box, click **Add**.

   <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.

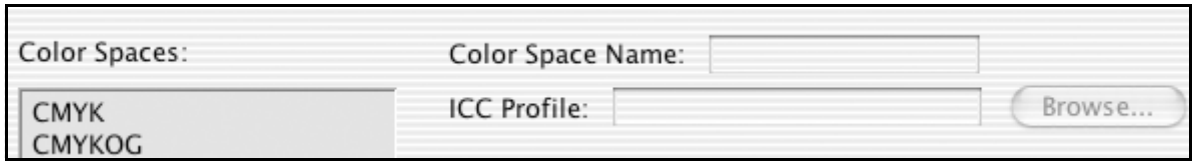


Important: The colorant names used in the Spotless color recipes must match the colorant names in the color profile.
You must also use the same colorant names in the **Screen Angles** box in the **Calibration & Screening** section of proof and final output process plans, if you're using Staccato Extended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

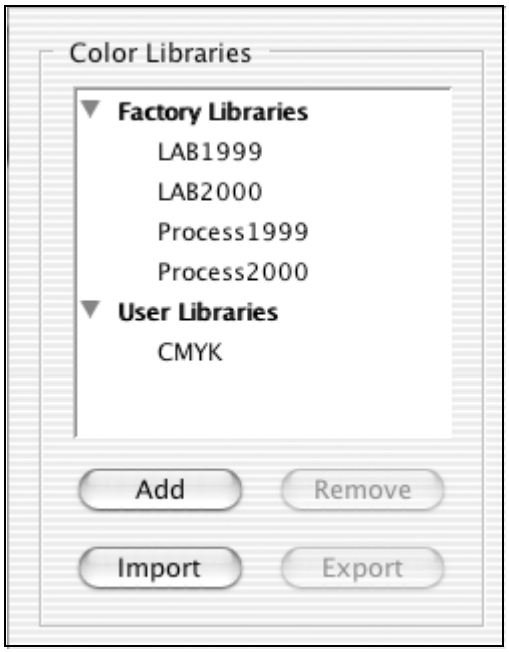
   The new color space appears in the **Color Spaces** box.



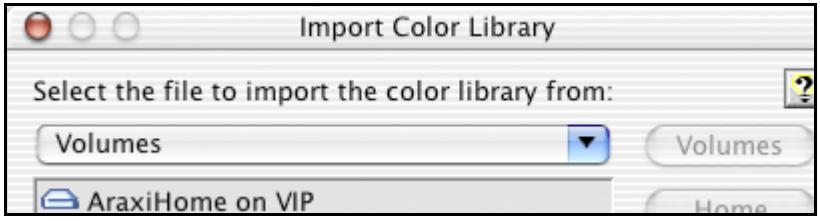
Color Editor: Importing the Spotless Color Recipes

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

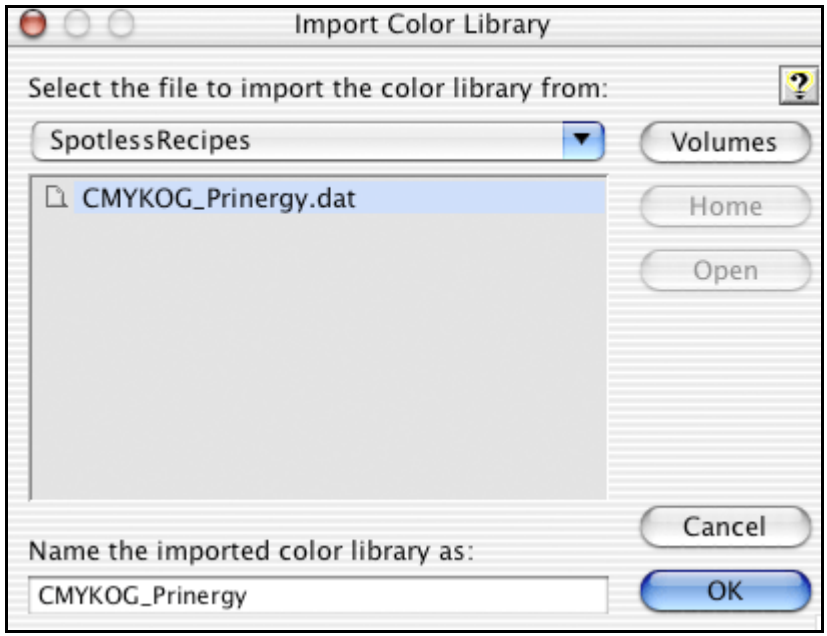
1. From the **Tools** menu, select **Color Editor.**



2. Click **Import.**



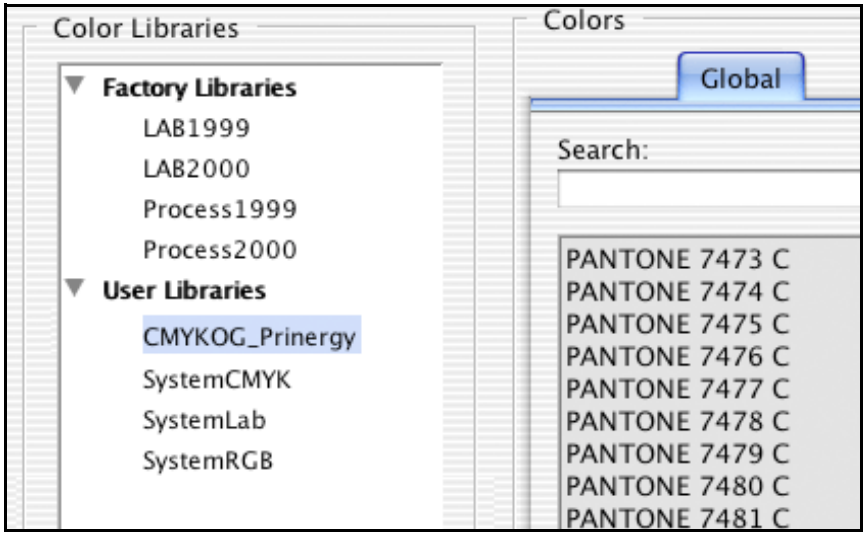
3. Browse to **SpotlessRecipes** under **\CreoAraxi\data** or your default location and select the recipe file. (The example shows a six-color file.)



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**.

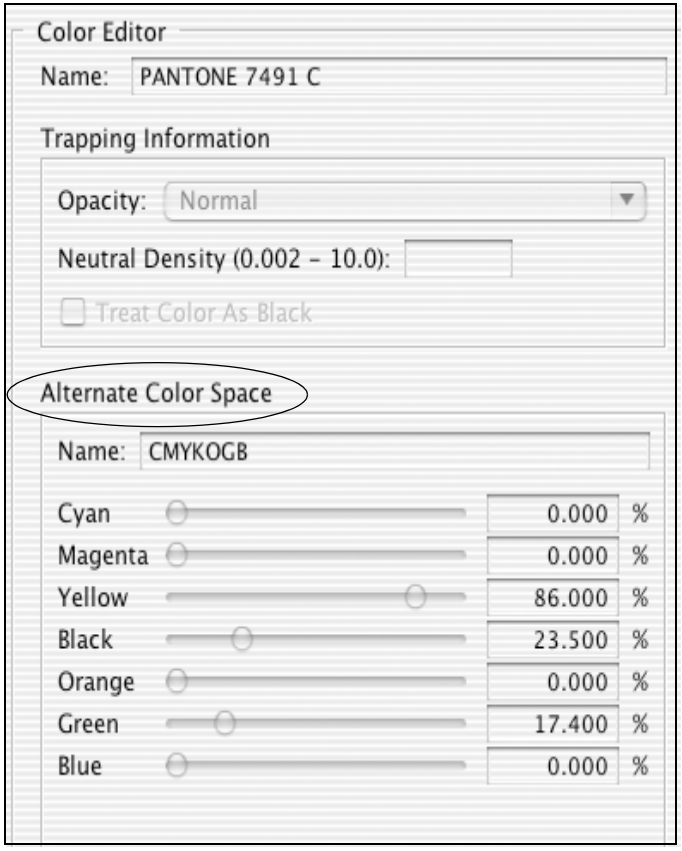
   The new library appears under **User Libraries** in the **Color Libraries** box.



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.

3 Refine Process

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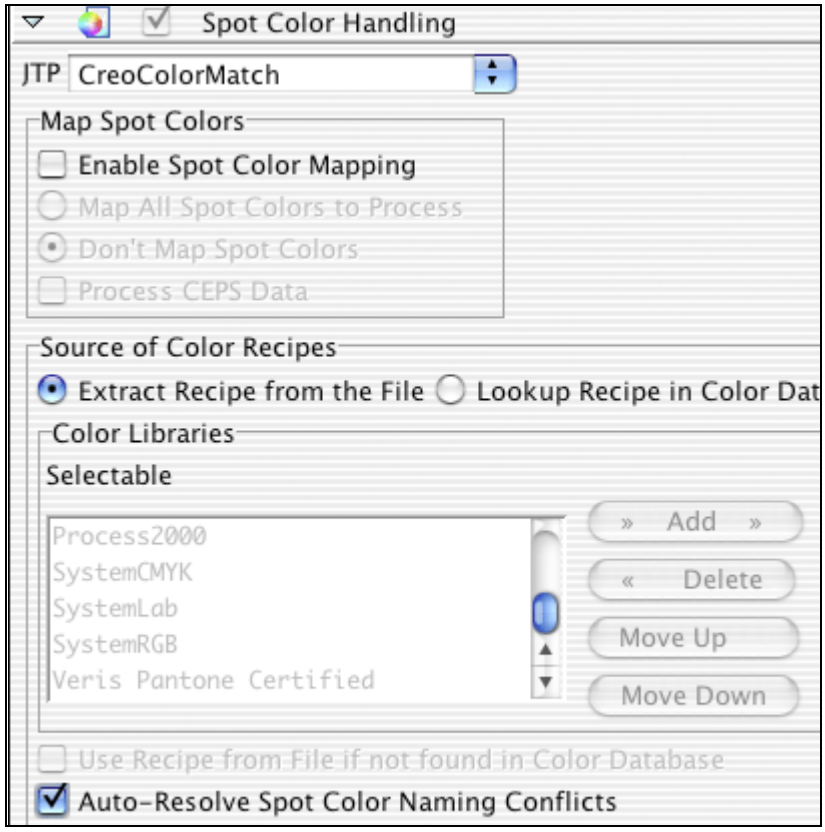
Configuring a First-Refine Process Plan

Configure a first-refine process plan to leave colors in the input file as is.

Important: Both **Trap** and **Thumbnail**, if used, have to take place in the second refine and not in the first refine.

To set up Spot Color Handling:

1. Open an existing first-refine process plan.
2. From the **JTP** list, select **CreoColorMatch**.



3. Clear the **Enable Spot Color Mapping** checkbox (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. Use the default profile in the **Final Output Process Profile** box. (The first refine is just identifying colors in the input file and does not use the profile.)

7. Select **Save As** from the **File** menu to save the process plan with another name.

Configuring a Second-Refine Process Plan

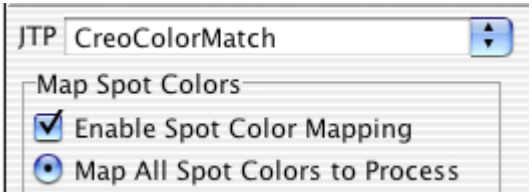
The purpose of a second-refine process plan is to map spot colors and to convert images and graphics in the PDF files to Spotless process colors.

Important: Both **Trap** and **Thumbnail**, if used, have to take place in the second refine and not in the first.

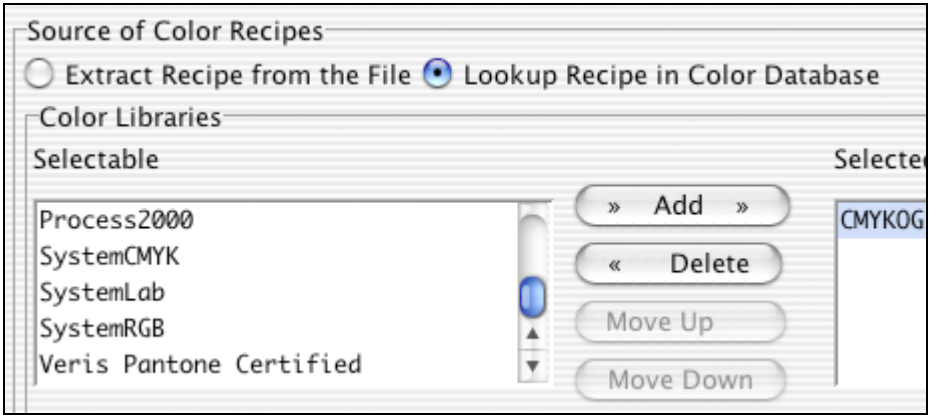
Open an existing second-refine process plan.

To set up Spot Color Handling:

1. From the **JTP** box, select **CreoColorMatch**.
2. Select **Enable Spot Color Mapping**.
3. Select **Map All Spot Colors to process**.

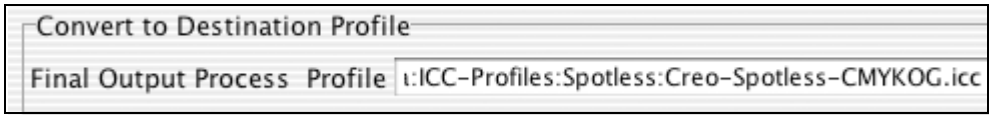


4. Select **Lookup Recipe in Color Database**.
5. Select the Spotless color library from the **Selectable** list and click **Add.**



6. If there are any other libraries in the **Selected** box, select each one and press **Delete** to move it to the **Selectable** box.

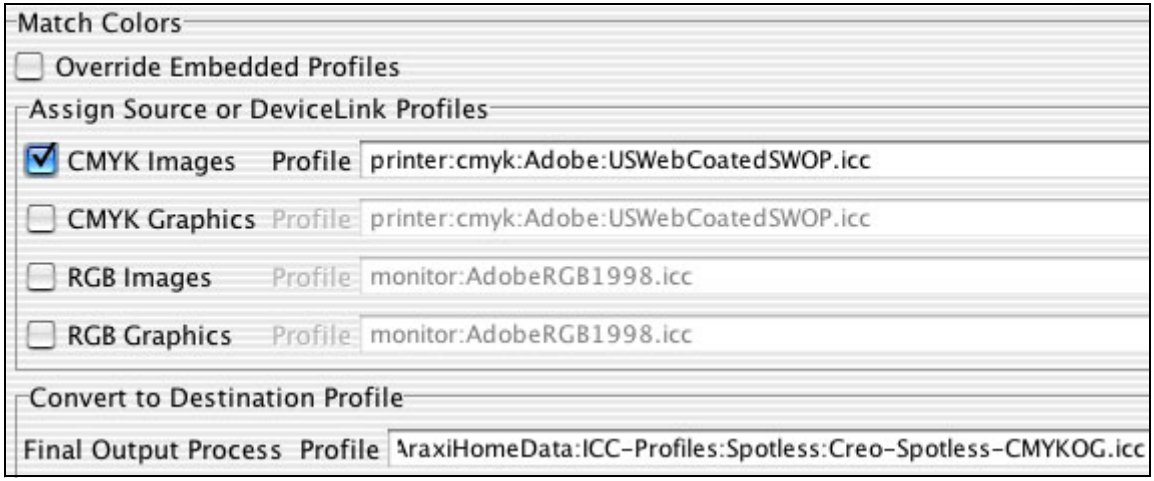
7. For **Final Output Process Profile**, specify the same profile you used in the Color Space Editor to set up the color space: **AraxiHome\CreoAraxi\data\ICC-Profiles\Spotless**



To set up ColorConvert

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



1. If you want to convert any of these objects, you need to replace the default profile, in the **Final Output Process Profile** box, with one that separates graphics and images into the Spotless process color space. Selecting a profile will update the profile in the **Final Output Process Profile** box of the Spot Color Handling section.

   For Spotless X, this profile must be six-color and contain colorant names that match those in the Color Space Editor.

If you don't want to convert images and graphics, then leave the default profile set up in the Spot Color Handling part of the process plan.

CMYK images

2. For Spotless 4, do not convert the CMYK images:
    a. Clear the **CMYK Images** checkbox.
    b. Leave the default **Final Output Process Profile** as is. (The default is the profile you selected in the Spot Color Handling section.)
3. For Spotless X, Creo recommends converting CMYK images to the extended process color set:
    a. Select the **CMYK Images** checkbox.
    b. Browse to and select a CMYK source profile or a four-to-six color devicelink profile.
    c. In the **Final Output Process Profile** box, browse to and select a six-color separation profile.

RGB images

4. For Spotless 4, you can convert RGB images as follows:
    a. Select the **RGB Images** checkbox.
    b. Browse to and select a RGB source profile or a devicelink profile.
    c. Leave the default **Final Output Process Profile** as is. (The default is the profile you selected in the Spot Color Handling section.)
5. For Spotless X, Creo recommends converting RGB images to the extended process color set.
    a. Select the **RGB Images** checkbox.
    b. Browse to and select a RGB source profile or a four-to-six color devicelink profile.
    c. In the **Final Output Process Profile** box, browse to and select a six-color separation profile.

CMYK Graphics

6. Creo recommends leaving CMYK graphics as is:
    a. Clear the **CMYK Graphics** checkbox.
    b. Leave the default **Final Output Process Profile** as is.

RGB Graphics

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** checkbox, the job will fail on output.

7. If you choose to to convert RGB graphics:
    a. Select the **RGB Graphics** checkbox
    b. Browse to and select an appropriate **Source or DeviceLink Profile**.
    c. For Spotless 4, leave the default **Final Output Process Profile** as is.

       For Spotless X, browse to and select a six-color separation profile.

4 Proofing Spotless Jobs

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Overview

Proofing with Spotless 4

Proofing with Spotless 4 requires no changes to existing proof process plans. except for the ICC profiles used for contone proofing. Use the ICC profile generated for the print condition by the Spotless Color Toolkit as a source profile. Or for an Integris or Veris, use the devicelink provided by the Creo Color Lab.

Proofing with Spotless X

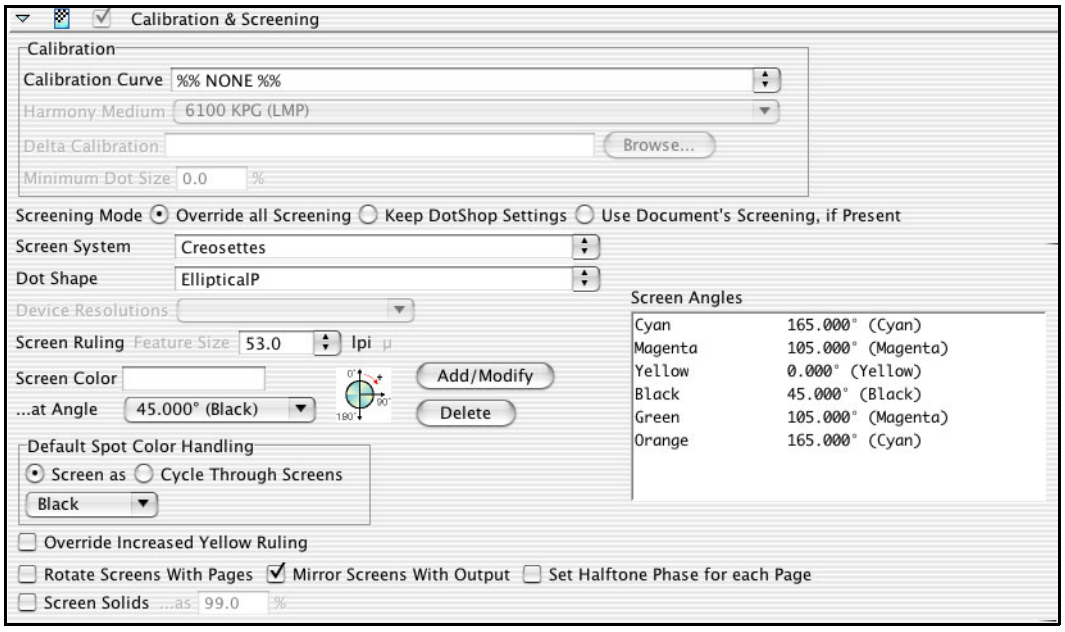
This chapter describes how to modify existing proof process plans (loose page /1-up artwork and imposition/layout) for a Spotless X workflow.

Process Color Separations for Virtual Proofing System Software

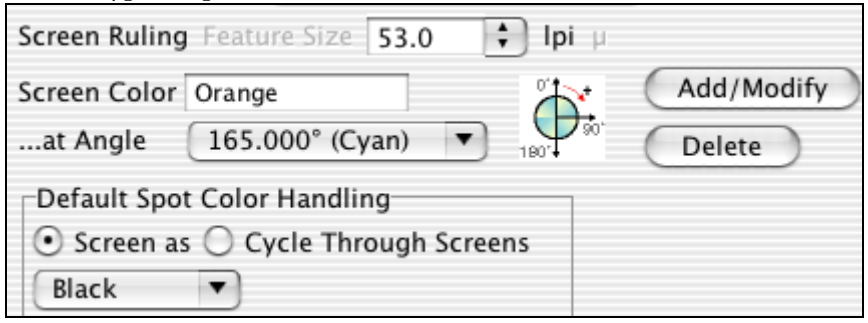
You need a process plan that provides six-color separations for viewing in Virtual Proofing System (VPS) software.

To modify an existing VPS proof process plan:

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 and sixth process colors:
   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 plan with another name.

Proofing With an Ink Jet 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 of Spotless X.

To proof a Spotless print job, you need:

- A devicelink. If you have a Creo Integris™ or Veris® proofer, you receive a press-to-proof devicelink created in the Creo color lab.

  or

- Two profiles:
  - A four-color proofer profile (as a destination profile). Both Creo Veris and Integris proofing systems have default ICC proofer profiles and most inkjet proofers in general have default proofer profiles.
  - The four or six-color press profile (as a source profile), created in the Spotless Color Toolkit from the press characterization data. See the Spotless Color Toolkit online help for details.

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

Setting Up a Loose Page Output Proofing Process Plan for Veris

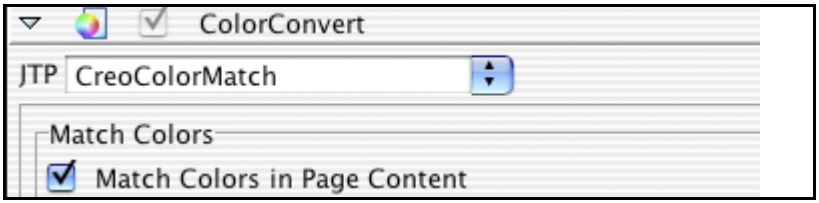
The method described here is to modify an existing Veris process plan for a Spotless X workflow, and then save it as a new process plan.

1. Open an existing Veris proof loose page output process plan.
2. In the **Output To** list, select **Veris (Low resolution)**.



To set up ColorConvert

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

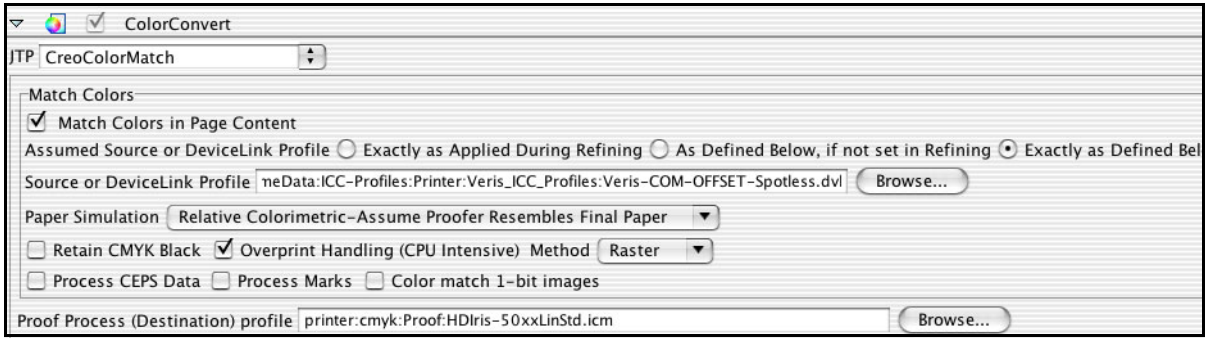


3. Select the **Exactly as Defined Below** radial button (for the **Assumed Final Output Profile)**.
4. Select a **Source or DeviceLink Profile** and a **Proof Process (Destination) profile**:

   For a devicelink,

   a. For **Source or DeviceLink Profile,** click **Browse** to navigate to **AraxiHome\CreoAraxi\Data\ICC Profiles\Printer** and select the devicelink.

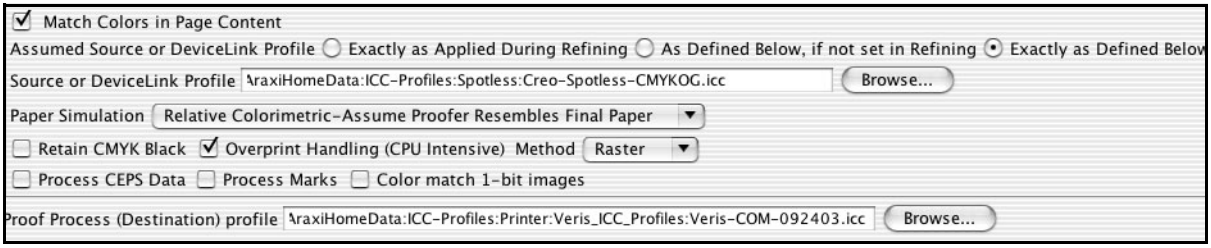
   b. Leave the default **Proof Process (Destination) profile** as is. It is not used with a devicelink profile.



For source (press) and destination (proofer) ICC profiles,

a. For **Source or DeviceLink Profile,** click **Browse** to navigate to **AraxiHome\CreoAraxi\Data\ICC-Profiles\Spotless** and select the six-color source (press) profile.

b. For **Proof Process (Destination) profile,** click **Browse** to navigate to **AraxiHome\CreoAraxi\Data\ICC Profiles\Printer** and select the four-color destination (proofer) profile



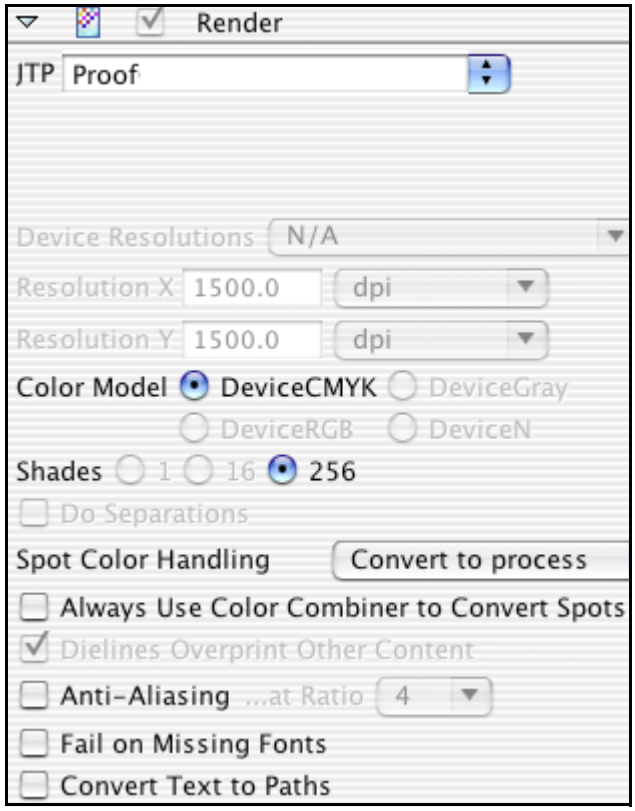
Note: for Paper Simulation leave the default as is; the rendering intent is applied from the ICC proofer profile or devicelink.

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

Note: For the handling of unconverted spot colors, dielines and so forth, see *Handling Color Exceptions* on page 32.

To set up Render

1. For Shades, click **256.**
2. Clear the **Do Separations** check box.
3. For **Spot Color Handling**, select **Convert to Process.**
4. Clear the **Always Use Color Combiner to Convert Spots** check box.
5. Clear the **Anti-Aliasing** check box.
6. Set other options as desired.



To set up Device

1. For **Veris Server**, select your Veris server name from the list..

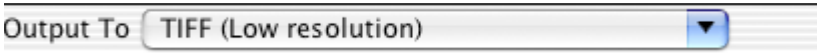


2. For Veris Proofing Process, select one of:
   - No Calibration
   - Calibration
   - Certified
3. Select **Save As** from the **File** menu to save the process plan with another name.

Setting Up a Loose Page Output Proofing Process Plan for Integris

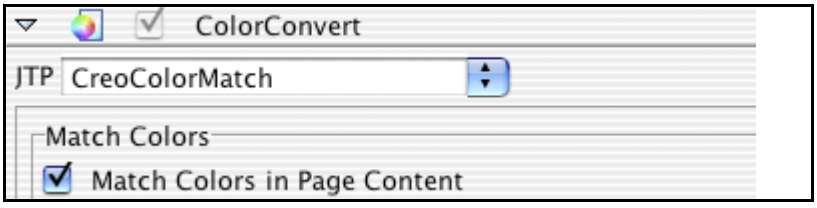
The method described here is to modify an existing Integris process plan for a Spotless X workflow, and then save it as a new process plan.

1. Open an existing Integris Loose Page Output process plan.
2. In the **Output To** list, select **TIFF (Low Resolution)**.



To set up ColorConvert

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



3. Select the **Exactly as Defined Below** radial button (for the **Assumed Final Output Profile).**

4. Select a **Source or DeviceLink Profile** and a **Proof Process (Destination) profile:**

   For a devicelink,

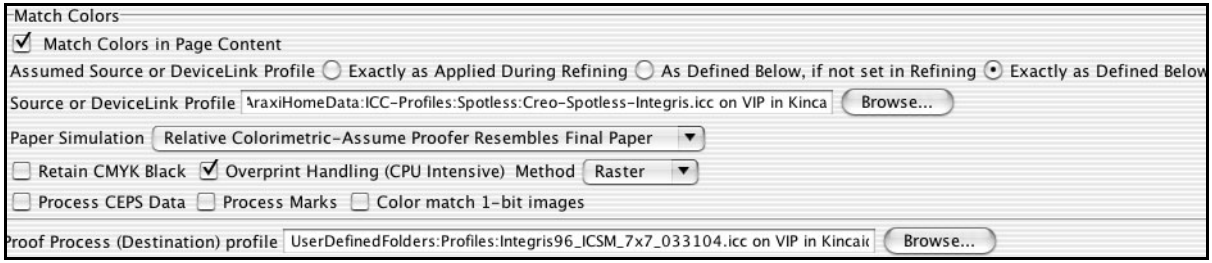
   a. For **Source or DeviceLink Profile,** click **Browse** to navigate to **AraxiHome\CreoAraxi\Data\ICC Profiles\Printer** and select the devicelink.

   b. Leave the default **Proof Process (Destination) profile** as is. It is not used with a devicelink profile.

   For source (press) and destination (proofer) ICC profiles,

   a. For **Source or DeviceLink Profile,** click **Browse** to navigate to **AraxiHome\CreoAraxi\Data\ICC-Profiles\Spotless** and select the six-color source (press) profile.

   b. For **Proof Process (Destination) profile,** click **Browse** to navigate to **AraxiHome\CreoAraxi\Data\ICC Profiles\Printer** and select the four-color destination (proofer) profile



Note: for Paper Simulation leave the default as is; the rendering intent is applied from the ICC proofer profile or devicelink.

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

Note: For the handling of unconverted spot colors, dielines and so forth, see *Handling Color Exceptions* on page 32.

To set up Render:

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. 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 Device

1. Click **Absolute File or Printer**.
2. Beside the **Device Path** box, click **Browse** and navigate to and select the input folder for your proofer.

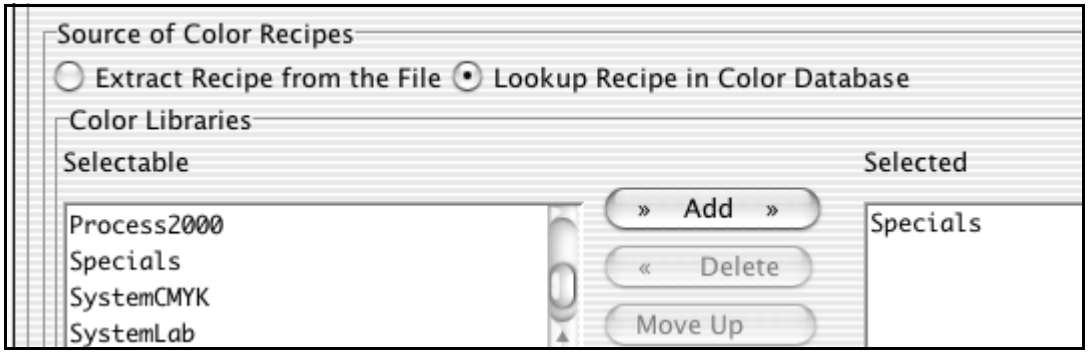
Select **Save As** from the **File** menu to save the process plan with another name.

Handling Color Exceptions

In some jobs, not all spot colors are converted—metallics, for example. You may also have dielines, 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 plan 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 them to the Selectable box.



Digital Halftone Proofing

Creo does not support spot color donors as extended process colors for halftone proofing. Staccato screening, which is required for Spotless printing, is not supported on spot color donors. Extended process colors are also required to overprint other colors, which is not the case with spot color donors.

However, if you wish to proceed with digital half tone proofing, you may get good simulation of your Spotless presswork if you select the additional process ink colors so that they closely match the spot color proofing donors. For example, if your extended process colors are orange and blue, ask your ink supplier to provide inks that closely match available orange and blue spot color donors.

Calibration Curves for Harmony

If you don't already have curves, use Harmony® software to create a CMYK curve set for the CMYK colors. Create a curve set for each additional extended process color, such as orange and green.

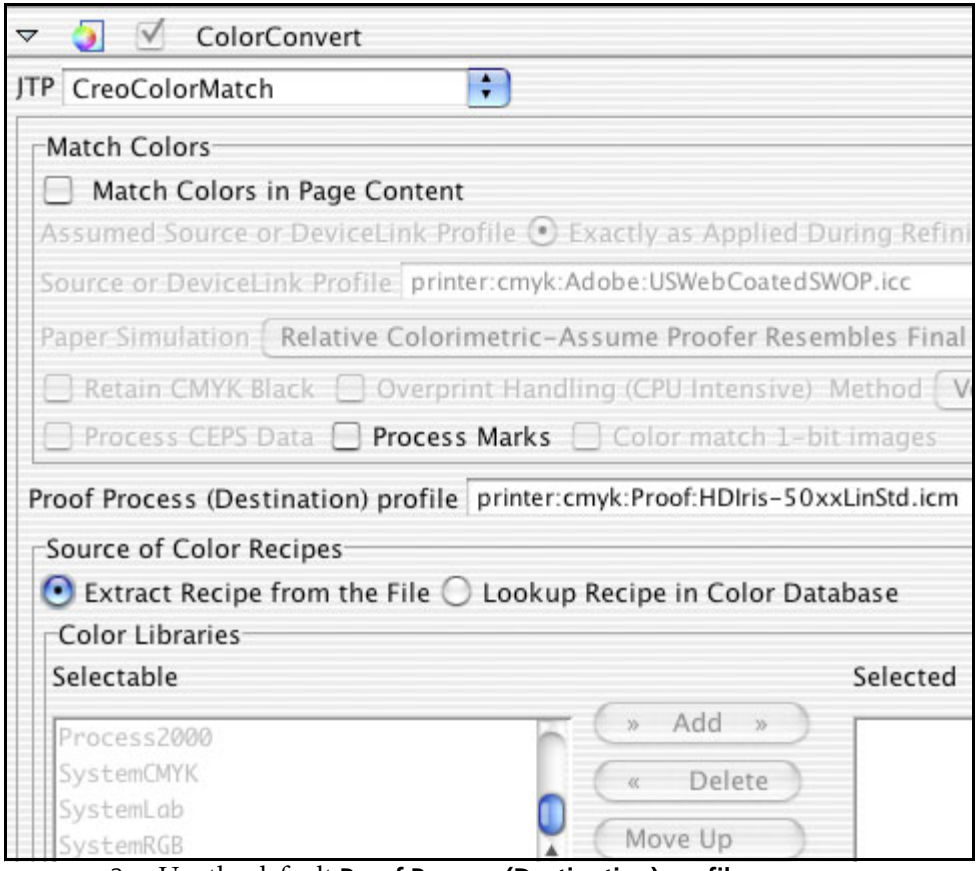
Creating a Loose Page Proof Output Process Plan

The next sections show how to set up a loose page proof output process plan for a Spectrum device with donors for fifth and sixth process colors.

1. Open an existing loose page proof process plan or select **New Process Plan** from the **File** menu.
2. In the **Output To** list, select **TIFF (Low resolution)** or a specific device.

To set up ColorConvert

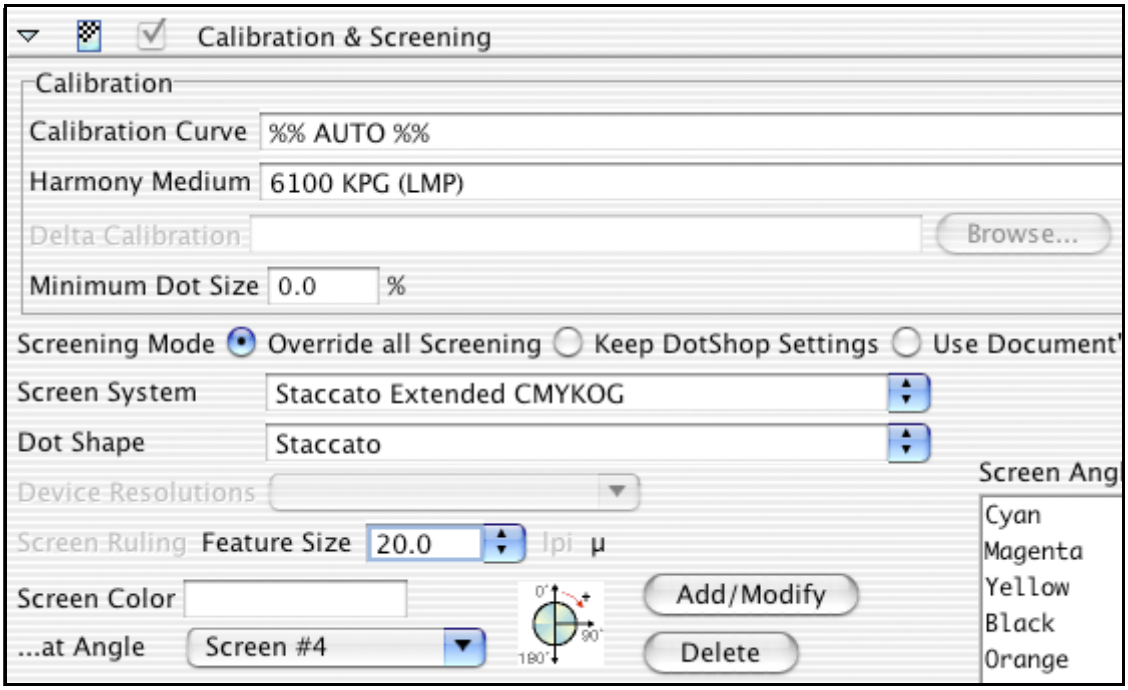
1. From the JTP list, select **CreoColormatch.**



2. Use the default **Proof Process (Destination) profile.**
3. Click **Extract Recipe from the File.**

To set up Calibration & Screening

1. From the **Calibration Curve** list, select **%%AUTO%%.**
2. From the **Harmony Medium** list, select the medium index number for the your media.



3. For **Screening Mode**, select **Override all Screening.**

4. In the **Screen System** list, select one of the five prenamed extended process color screen sets:

   - **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.



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.

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

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

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

   d. Click **Add/Modify**.

      The new color name and associated screen angle 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.

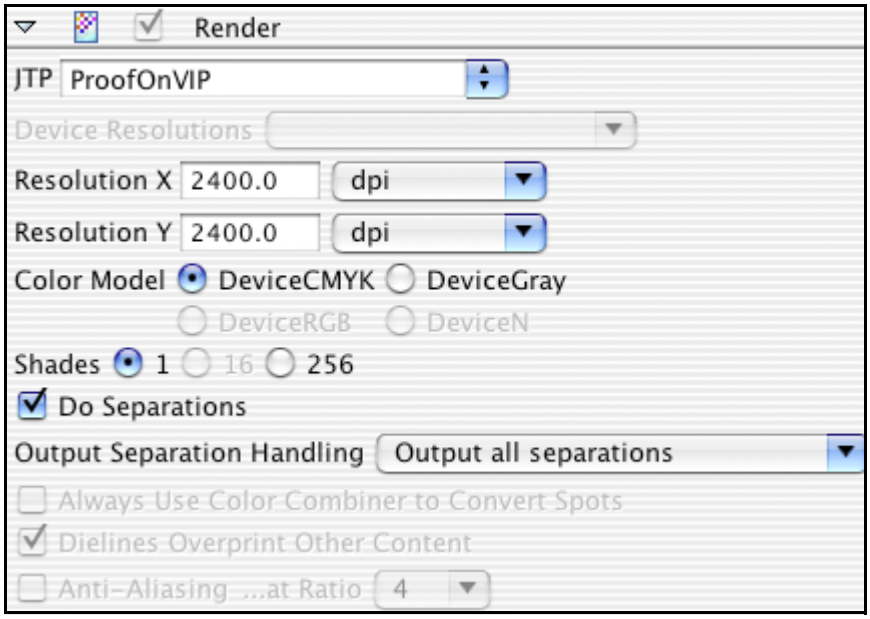
   b. Select a screen angle from the **at Angle** list.

   c. Click **Add/Modify**.

   d. Continue until all the colors are added.

To set up Render

1. Click the arrow beside **Render.**



2. From the JTP list, select your proofing **JTP.**
3. Set **Resolution X** and **Resolution Y** to **2400 dpi.**
4. Select **DeviceCMYK** as the **Color Model.**
5. Select **1** for **Shades.**
6. Select the **Do Separations** check box.
7. From the **Output Separation Handling** list, select **Output all separations.**
8. Clear the **Convert Text to Paths** check box.

Select **Save As** from the **File** menu to save the process plan with another name.

5

Plate Process Plans

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Overview

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

Staccato Extended Color Screens for Plating

Creo supports Spotless printing with Staccato screening. Spotless X 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 Staccato imaging. Your sales representative will have a current list of qualified media.

Harmony Calibration for Plating

For Staccato printing, Creo 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 black (or common) calibration curve unless you create a spot color curve in Harmony for the fifth and sixth process colors. Either approach is acceptable.

You use Prinergy process plans 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, micron size
- Be enabled in Harmony

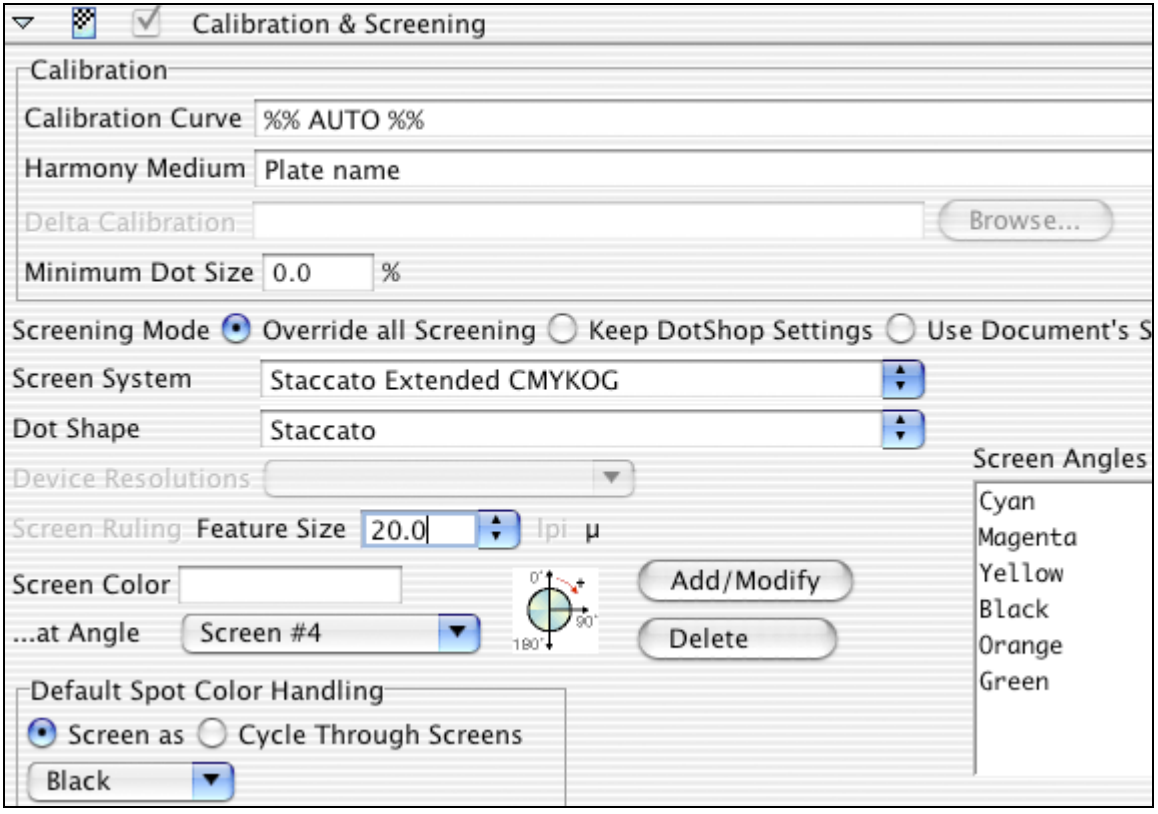


Important: The name that you type in the **Screen Color** box must exactly match the colorant names in the Color Space Editor and the colorant names in the ICC profile created in the Spotless Color Toolkit.

Configuring Final Output Process Plans for Spotless X

To configure a final output process plan:

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

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

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

   g. Click **Add/Modify**.

      The new color name and associated screen angle 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.

   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 inHarmony.

8. Set other options as desired.

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

10. Close the process plan window.

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