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Technical bulletin

Connecting Prinergy 2.x and Print Console

Introduction

This document is intended to help you use Prinergy® 2.x software such as Prinergy Connect®, Prinergy *Powerpack*™, and Prinergy Direct® with Print Console. The document describes the following:

- How Prinergy Connects to Print Console—see page 1
- Connecting Prinergy and Print Console—see page 3
- Troubleshooting Connection Issues—see page 3
- Configuring Print Console for a Prinergy Workflow—see page 4
- Configuring Prinergy with GDAPI—see page 7
- Creating Prinergy Process Plans for Use with Print Console—see page 8
- Outputting Jobs from Prinergy to Print Console—see page 15
- Tips for Prinergy Workflows and Print Console—see page 17
- Related Print Console and Prinergy 2.x Documentation—see page 17

How Prinergy Connects to Print Console

The type of output that you create determines how Prinergy connects to Print Console.

Type of Output	How Prinergy Connects to Print Console
Plates	Prinergy submits preapproved raster images directly to Print Console using the GDAPI (Generic Device Application Programming Interface) direct connection.
Digital halftone proofs	Prinergy submits 1-bit prescreened TIFF jobs to Print Console using hot folders and the Creo TIFF Downloader.

Prinergy does not submit proofing jobs directly to Print Console through GDAPI because some proofing tasks must be done in Print Console. You must use Print Console to:

- Map RIP colors to device colors. This cannot be done in Prinergy.
- Group and reorder color separations for proofing jobs. When you group color separations, Print Console automatically reorders separation colors to match the color order in the proof cassette.

Plating Connectivity Overview

For plating, Prinergy submits preapproved raster images directly to Print Console through GDAPI. When you select the appropriate output process plan in Prinergy, the Prinergy jobs appear as approved in the **Pending** pane of the Queues window in Print Console.

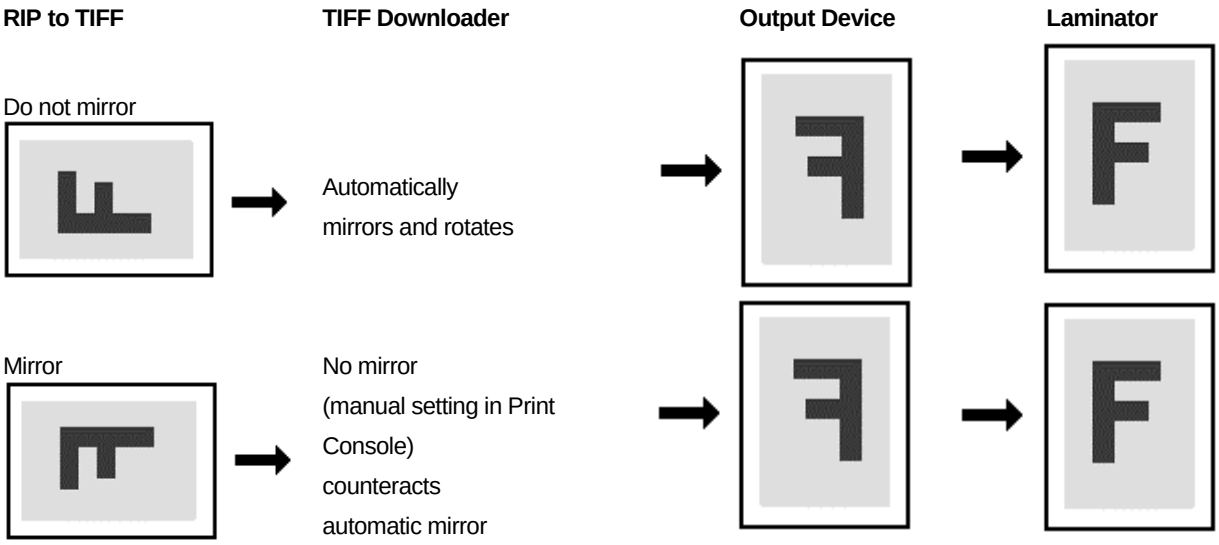
(If the output device is initializing, Print Console displays preapproved raster images as unapproved in the pending queue. When the device finishes initializing, Print Console displays raster images as approved.)

Digital Halftone Proofing Connectivity Overview

For digital halftone proofing jobs, Prinergy submits 1-bit prescreened TIFF jobs to Print Console through hot folders and the Creo TIFF Downloader. Prinergy must generate TIFF jobs in a format that Creo TIFF Downloader recognizes—prescreened 1-bit raster data TIFF jobs. The raster data must be rotated 90 degrees from the expected output. For example, your data needs to be in:

- Portrait orientation for a proof outputting in landscape orientation—for example, an 8-up proof
- Landscape orientation for a proof outputting in portrait orientation—for example, a 4-up proof

Creo TIFF Downloader automatically mirrors the raster data. Proof lamination acts as another mirroring process.



How Creo TIFF Downloader works

To generate acceptable TIFF jobs for Creo TIFF Downloader and the media you are using, you must create an output process plan with appropriate settings in Prinergy. When you apply the output process plan, Prinergy creates the TIFF jobs in a Print Console hot folder, which submits the jobs to Print Console. You can see the TIFF jobs in Print Console on the **Pending** pane of the Queues window. Each TIFF job contains one color separation. After you group, reorder according to cassette color order, and approve the job in Print Console, Creo TIFF Downloader sends the raster data to the output device.

Connecting Prinergy 2.x and Print Console

The general workflow for setting up Print Console and Prinergy 2.x connectivity is:

1. In Print Console, configure device media, media sizes, print setups, color mappings, hot folders, and preferences.

   For instructions, see the Print Console online help.

2. In Prinergy Administrator, add a GDAPI JTP.

   For instructions on adding a JTP, see the Prinergy Administrator online help.

3. Set up final output process plans to use the new GDAPI JTP.

   For instructions on creating a process plan, see the Prinergy Workshop online help.

4. Test the connectivity.

Troubleshooting Connection Issues

Note: This information is intended for service representatives or system administrators.

The table below provides samples of errors and solutions for troubleshooting Prinergy and Print Console connectivity.

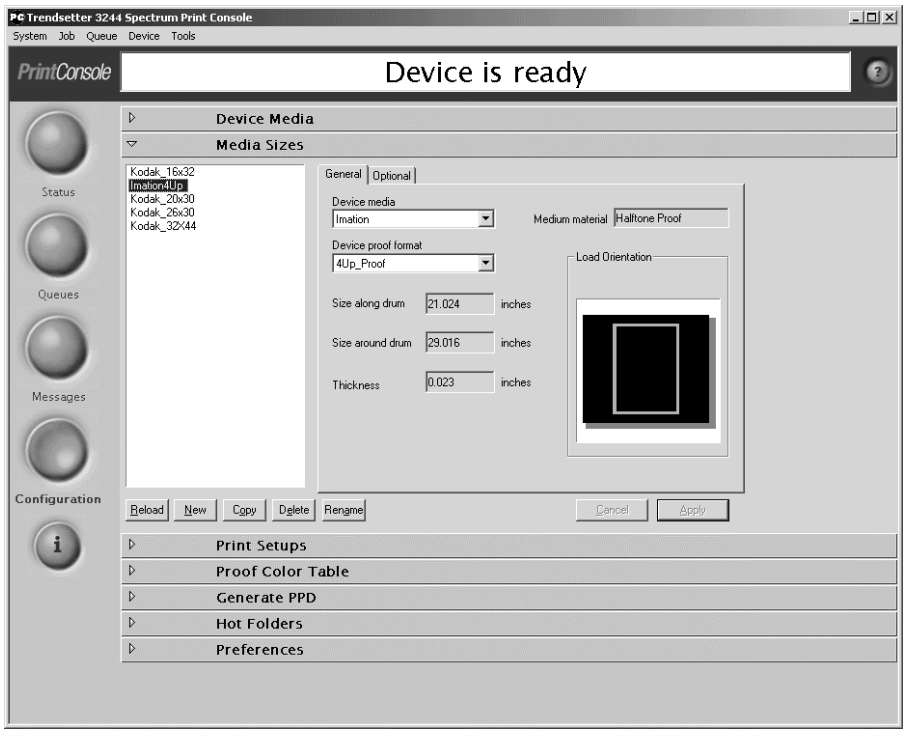
Error	Possible Solution
In Prinergy Administrator, the JTP for Print Console displays the following message when it starts: PrintConsoleGDAPI.dll not found.	Check that: • Print Console is installed. • **PrintConsoleGDAPI.dll** is in the **\PrintConsole\bin** folder. • The **\PrintConsole\bin** directory is in the environment path for the operating system (Windows NT® or Windows® 2000).
Plates defined in Print Console don't appear in Prinergy process plans.	Check that: • The JTP for Print Console is selected in the process plan. • The RIP status indicator in the Status window in Print Console displays Prinergy with a green circle beside it.
The RIP status indicator in the Status window in Print Console displays Prinergy with a red X beside it.	Check that the JTP for Print Console is running in Prinergy Administrator. • If the JTP is running, shut down the JTP and then restart it. • If the JTP is stopped, start it.
When uninstalling Print Console, the following error message appears: Some components can't be removed.	Close the JTP for Print Console in Prinergy Administrator. You can't remove the components because the JTP for Print Console uses the **PrintConsoleGDAPI.dll** file.

Configuring Print Console for a Prinergy Workflow

You configure Print Console differently for plating and digital halftone proofing. This section describes both configurations.

To configure Print Console for plating:

1. In the Print Console window, click **Configuration**.
2. In the Configuration window, in the **Media Sizes** pane, add the plate media sizes to which you want to output.



Media Sizes pane in the Configuration window

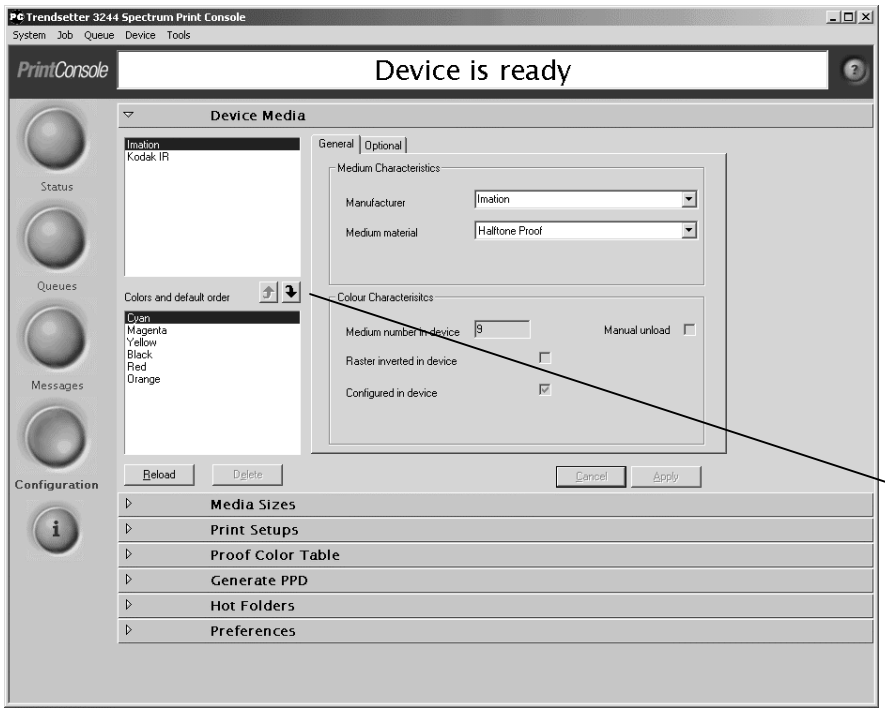
For more information, see *How to Create Fixed Media Sizes* in the Print Console online help.

3. Click **Apply**.

When Prinergy and Print Console connect, the media sizes that you added can be selected in the final output process plan in Prinergy, in the **Name** list in the **Layout** section. See step 4 on page 14.

To configure Print Console for digital halftone proofing:

1. In the Print Console window, click **Configuration**.
2. In the Configuration window, in the **Device Media** pane:
   a. From the **Device media** list, select a proofing device media configured in your device—for example, Imation.
   b. In the **Colors and default order** box, reorder the device colors to match the color order in your cassette. When you group TIFF proof separations, Print Console reorders the separations to match this default color order.



Device Media pane in the Configuration window

3. In the **Media Sizes** pane of the Configuration window, add proof media size names to which you want to output.

   For more information, see *How to Create Fixed Media Sizes* in the Print Console online help.

4. For each digital halftone proof size, for example 4-up and 8-up, do the following:
   a. Create a print setup. Follow the instructions in *To create a print setup*.
   b. Create a hot folder and attach the print setup to the hot folder. Follow the instructions in *To create a hot folder and attach it to the print setup* on page 7.

To create a print setup:

1. In the Configuration window in Print Console, in the **Print Setups** pane, click **New**.

2. In the Enter Print Setup Name dialog box, type a name for the print setup—for example, TIFFto4UpProof.
3. From the **Use Media Sizes** list, select a medium size for digital halftone proofing.



Print Setups pane in the Configuration window

4. From the **RIP Name** list, select Creo TIFF Downloader.
5. Clear the **Scan for Media Size name** check box.
6. Clear the **Auto approve** check box to turn off automatic job approval.
7. If you want new RIP colors to be added to the Proof Color Table, in the **Separation** tab, select **Add new RIP color to the Proof Color Table**.



Print Setups pane—Separation tab

8. Set the remaining options on the **Print Setups** pane as desired.

   For more information, see *How to Create New Print Setups* in the Print Console online help.

To create a hot folder and attach it to the print setup:

1. In the Configuration window in Print Console, in the **Hot Folders** pane, click **New**.
2. In the **Spool directory**, type a directory or browse for the hot folder input queue—for example, **e:\spool\4UpProof**.
3. Select the **Enabled** check box to enable the hot folder input queue.
4. Set the **Spool File Settings** as desired.
5. In the **Print Setup** list, select a print setup to attach to the hot folder—for example, TIFFto4UpProof.
6. Set the **Scan for new files every** and **File Stabilization** time options.
7. Click **Apply**.

   Print Console creates the hot folder input queue and adds it to the **List of input queue directories** box on the left side of the pane.

Configuring Prinergy With GDAPI

Note: *Only* Creo service personnel should configure Prinergy with GDAPI. For instructions, see the *Prinergy Installation Guide*.

Creating Prinergy Process Plans For Use with Print Console

This section describes the Prinergy process plan settings you must use to connect to Print Console. It covers settings required for creating both proofs and plates—that is, for both imposition proof output process plans and final output process plans.

You need to create output process plans for every media size you want to use with Print Console.

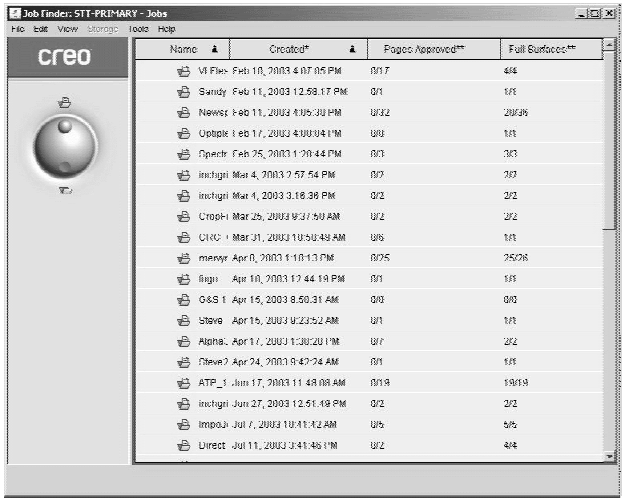
For more information about creating process plans, see Prinergy Workshop online help.

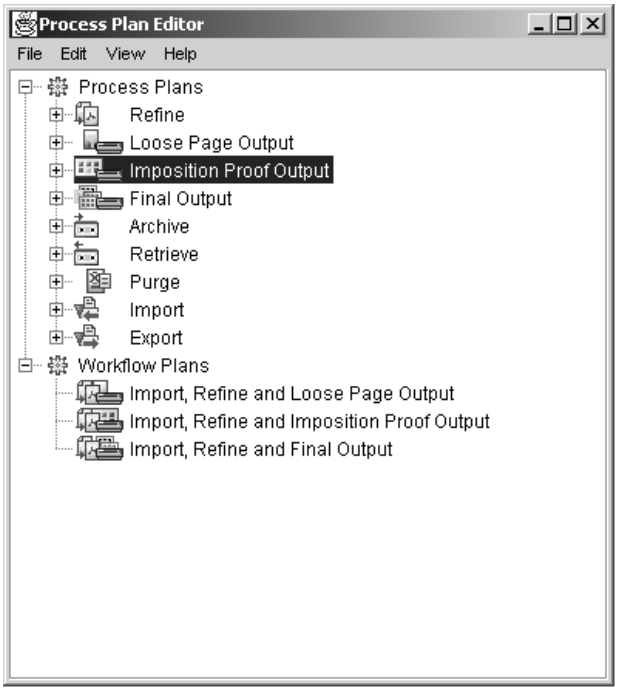
Spectrum Proofing

To create Spectrum proofs (and proofs for other devices), you need to set up imposition proof output process plans.

To set up an imposition proof output process plan for use with Print Console:

1. In Prinergy Workshop, from the **Tools** menu, select **Process Plan Editor**.

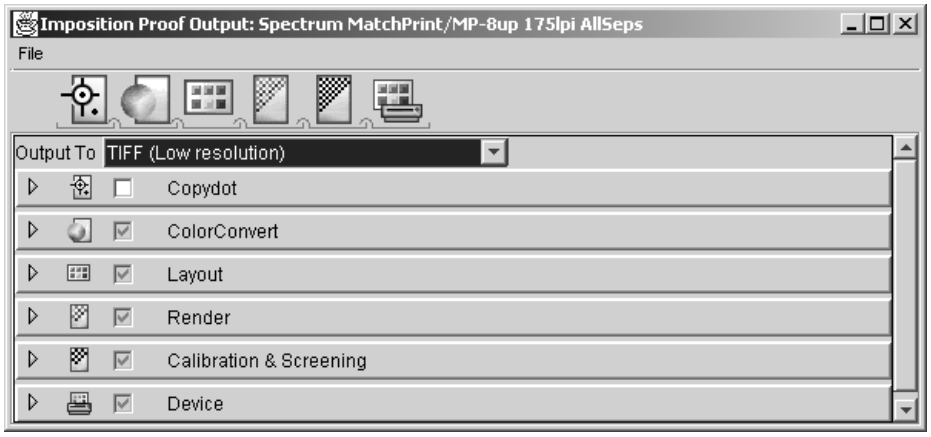




Process Plan Editor dialog box

2. In the Process Plan Editor, double-click the imposition proof output process plan you want to edit or create a new imposition proof output process plan.

   Note: Spectrum Matchprint Imposition Proof process plans contain settings that are already correctly configured, except for the Print Console hot folder locations.



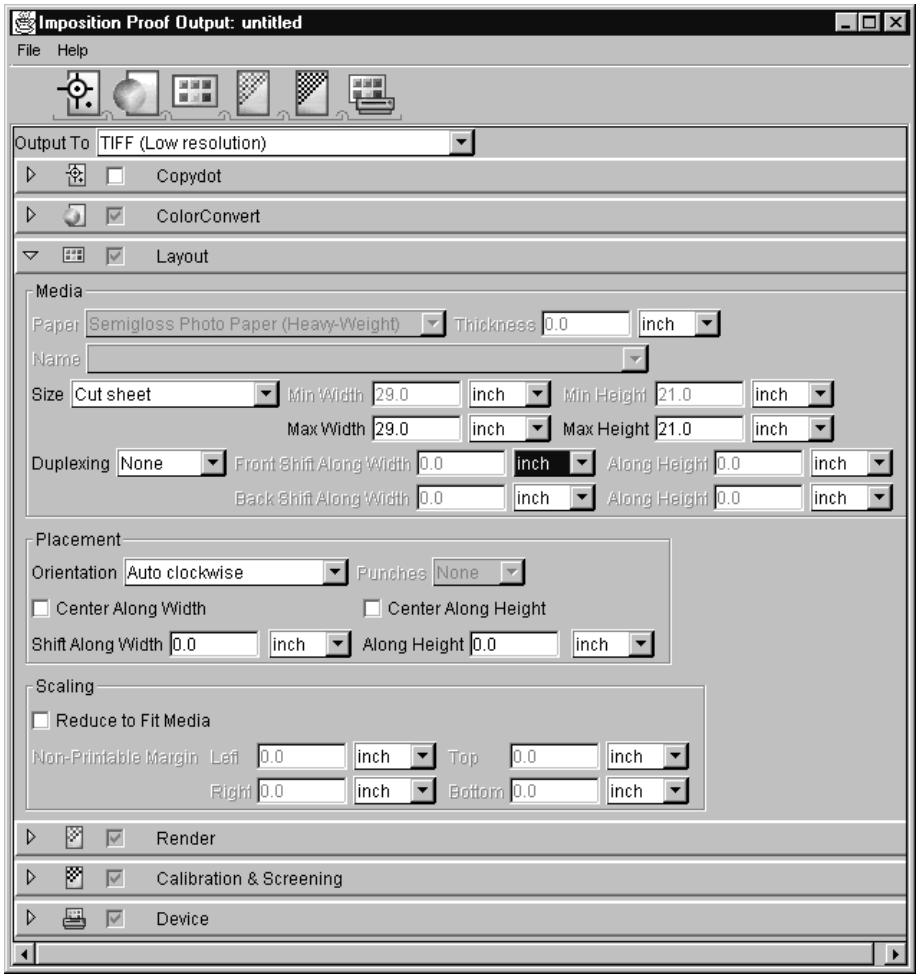
Imposition proof output process plan

3. From the **Output To** box, select **TIFF (Low Resolution)**.
4. In the **Layout** section of the process plan, in the **Media** area, type the dimensions of the imageable area of each proof—for example, 29 x 21 inches for a 4-up proof, or 29 x 39 for an 8-up proof.

Important: You must specify the dimensions of the *imageable* area rather than the media size. If you create a TIFF job that matches the media size rather than the imageable area, the image will shift on the proof.

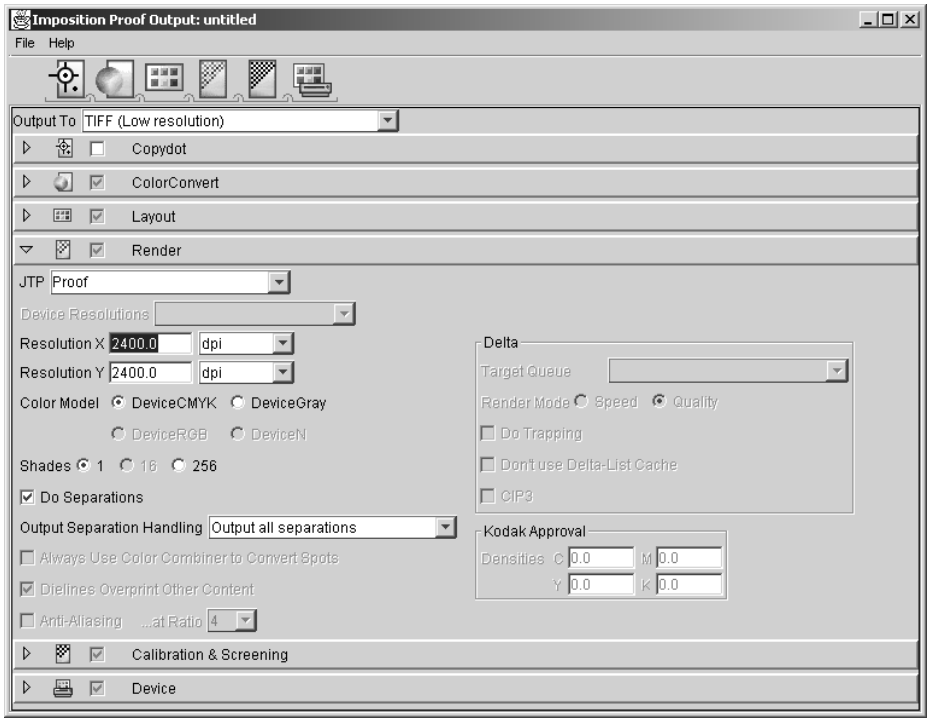
You must type the height in the **Max Width** boxes and the width in the **Max Height** boxes to compensate for the 90-degree rotation and mirror print that happen when you image TIFF jobs. For more information, see *Digital Halftone Proofing Connectivity Overview* on page 2.

- In the **Max Width** boxes, type the height of the imageable area.
- In the **Max Height** boxes, type the width of the imageable area.



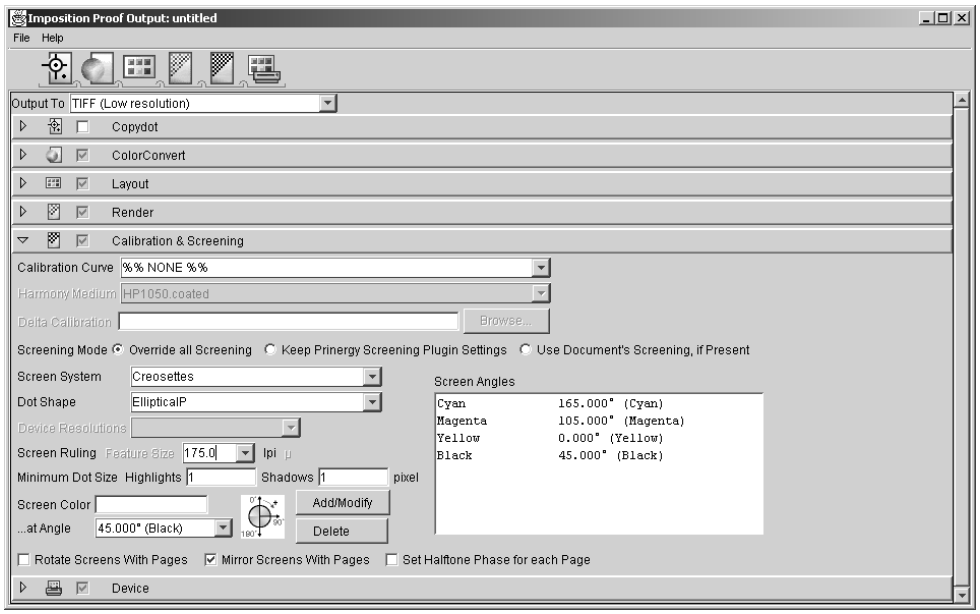
Imposition proof output process plan—Layout pane

5. In the **Render** section of the process plan, check that the render options are configured correctly. For more information about configuring render options, see Prinergy Workshop online help.



Imposition proof putput process plan—Render pane

6. In the **Calibration & Screening** section of the process plan:
   - In the **Calibration Curve** box, select the calibration curve to use.
   - In the **Screening Ruling** box, select the screening ruling to use.

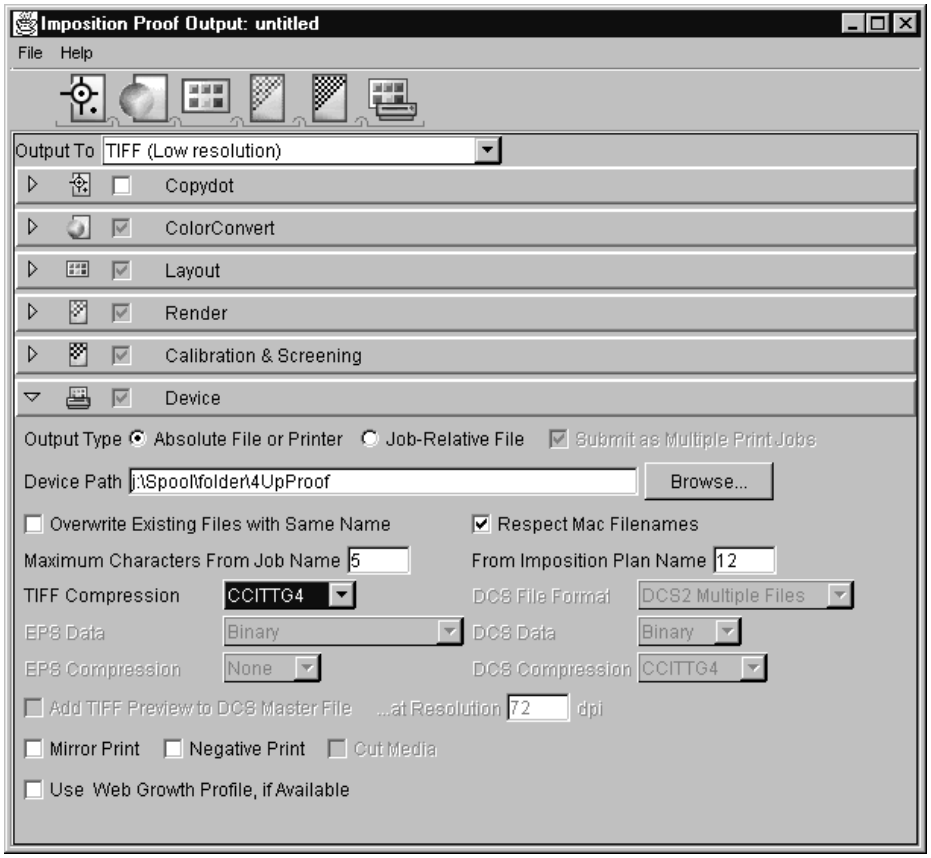


Imposition proof output process plan—Calibration & Screening pane

7. In the **Device** section of the process plan:

- For **Output Type**, select **Absolute File or Printer**.
- In the **Device Path** box, type or browse to the location of the Print Console hot folder you want to use. For information on configuring Print Console hot folders, see *How to Create a Hot Folder Input Queue* in the Print Console online help.
- In the **TIFF Compression** box, select the type of compression you want to use. Creo recommends you use CCITG4 compression whenever possible.
- Clear the **Mirror Print** check box.

  Note: The TIFF image will be right reading. The device will create a wrong-reading image, but laminating the proof makes the image right reading.



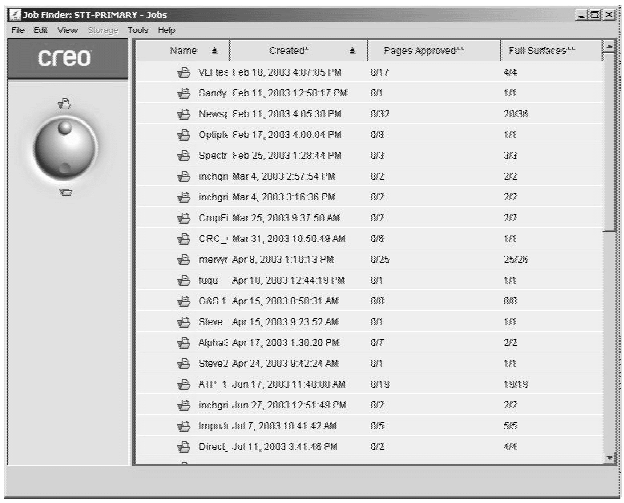
Imposition proof output process plan—Device pane

8. From the **File** menu, select **Save** to save the imposition proof output process plan.

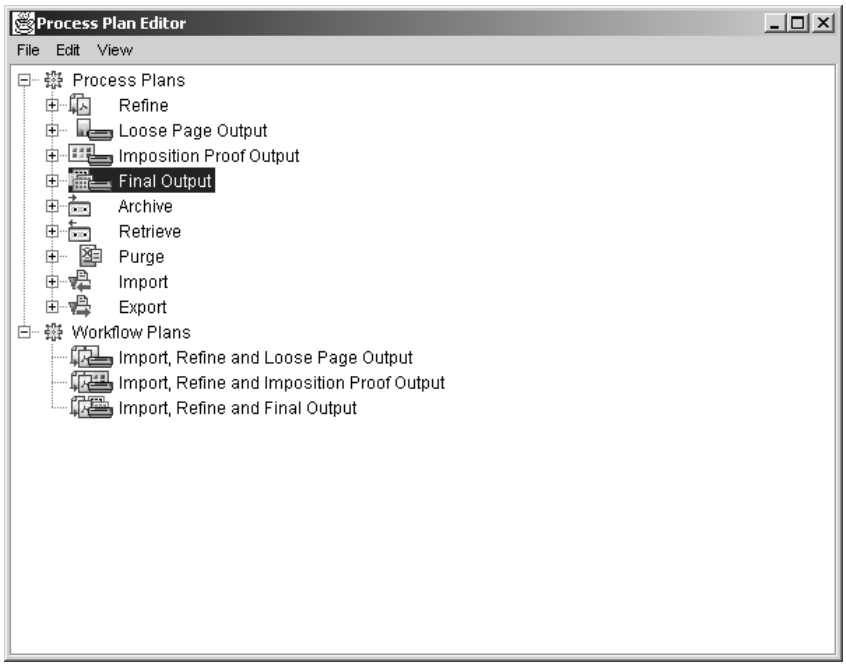
Plating

To set up a final output process plan for use with Print Console:

1. In Prinergy Workshop, from the **Tools** menu, select **Process Plan Editor**.

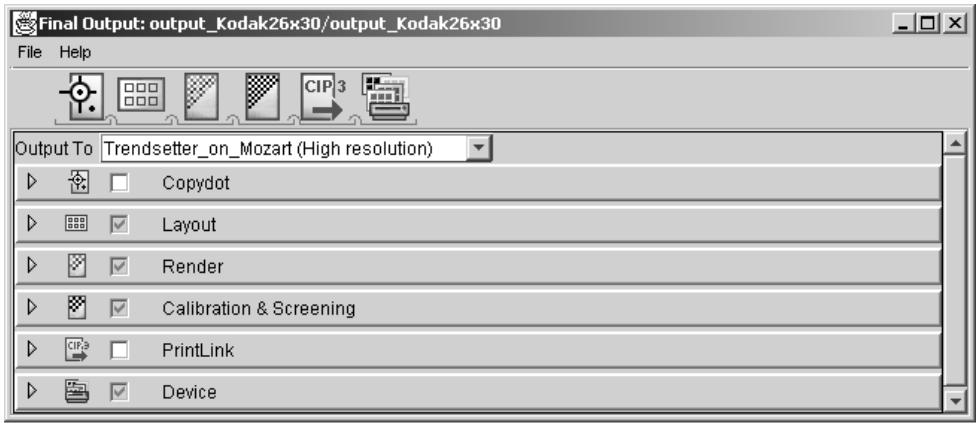


Job Finder window



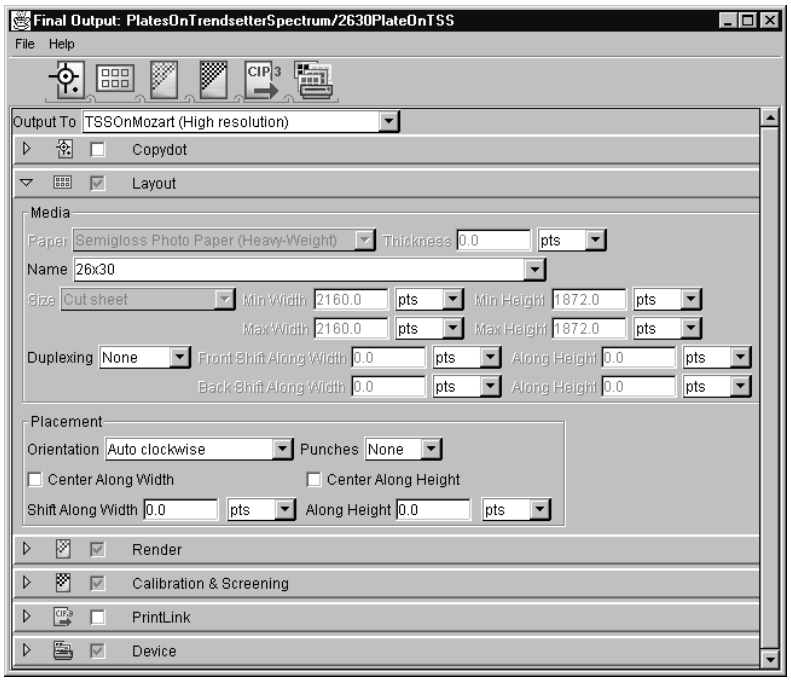
Process Plan Editor

2. In the Process Plan Editor, double-click the final output process plan you want to edit or create a new final output process plan.



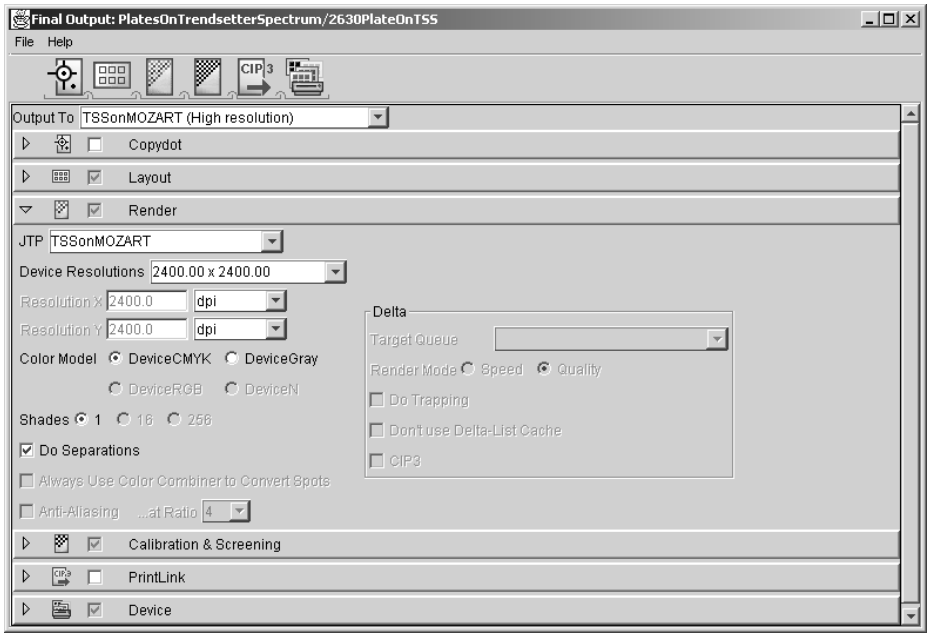
Final output process plan dialog box

3. In the **Output To** list box, select the name of the GDAPI Print Console JTP that you created in the Output JTP dialog box (see step 2 on page 3).
4. In the **Layout** section of the process plan, in the **Name** list, select a fixed media size (configured in Print Console—see step 3 on page 4).



Final output process plan—Layout pane

5. In the **Render** section of the process plan, the **Device Resolutions** box shows the available device resolutions that Print Console sends to Prinergy.



Final output process plan—Render pane

6. In the **Calibration & Screening** section of the process plan:
   - In the **Calibration Curve** box, select the calibration curve to use.
   - In the **Screening Ruling** box, select the screening ruling to use.
7. From the **File** menu, select **Save** to save your settings for the final output process plan.
8. Repeat steps 2 to 7 for every plate size you want to output to, picking the appropriate plate size from the **Name** box in the **Layout** pane.

Outputting Jobs From Prinergy to Print Console

Once you set up process plans, you can run jobs through Prinergy using the appropriate process plan for the action that you want to apply to the submitted job data. For example, use the final output process plan to create plates or the imposition proof output process plan to create Spectrum proofs. Once you apply the output process plan, the job is automatically submitted to Print Console. For more information about running jobs, see Prinergy Workshop online help.

Imaging Plates

To submit jobs to Print Console to create plates, use the appropriate Prinergy final output process plan. The job automatically displays as an approved job on the **Pending** pane of the Queues window in Print Console. The job is approved and ready for processing. The first job you submit to Print Console is immediately imaged if the device is ready. You can view this job on the Status window in Print Console.

Note: You cannot edit the job properties for GDAPI raster image jobs in Print Console. To edit job properties, you must first cancel the job in Print Console and then resubmit the job from Prinergy Workshop applying the desired job properties.

Imaging Digital Halftone Proofs

To submit jobs to Print Console to create digital halftone proofs:

1. Use the appropriate Prinergy process plan to submit the TIFF jobs to Print Console.

   The Prinergy system automatically sends the TIFF jobs to the appropriate Print Console hot folder. Each TIFF job displays as a pending job on the **Pending** pane of the Queues window. Print Console reads the job name to attempt to determine the color of each TIFF job.



   Prinergy proof jobs in the pending queue

2. Group the TIFF jobs for your job together.

   For instructions, see *How to Group Pending Jobs* in the Print Console online help.

3. Create proof color mappings for any spot color TIFF jobs.

   Or:

   Do not create proof color mappings. Instead, let Print Console ask you for the device color on which you want to image each spot color separation when each separation is sent to the device. For instructions, see *Managing Color Mappings* in the Print Console online help.

4. Reorder the TIFF jobs to match the color order of the digital halftone proofing media in the cassette on the output device.

   For instructions, see *How to Order Color Separations* in the Print Console online help.

5. Approve the job for processing. For instructions, see *How to Approve Pending Jobs* in the Print Console online help.

When Print Console processes a job, it moves it to the active queue in the Status window. Creo TIFF Downloader proceeds to send the TIFF raster data to the device.

Tips for Prinergy and Print Console Workflows

- When generating a PPD or PPX file in Print Console to use in Prinergy imposition plans, make sure you select **Landscape** RIP orientation. Prinergy has an Extreme RIP, which is a landscape RIP.
- If you do not generate a landscape PPD for Prinergy imposition plans, images or marks on the plate will be rotated. For more information about PPD generation, see *How to Generate PPD* in the Print Console online help.
- With desktop applications such as QuarkXPress®, use the Refiner PPD file that comes with Prinergy. With imposition software such as Preps®, use the PPD file generated by Print Console.
- For digital halftone proofing, Prinergy uses a separated workflow. All information on separated jobs in Print Console online help applies to a Prinergy digital halftone proofing workflow. For more information about a separated workflow, see **Managing Color Mappings** in the Print Console online help.

Related Print Console and Prinergy 2.x Documentation

- *Print Console online help*

  Describes Print Console concepts, dialog boxes, windows, menus, system configuration, and how to manage jobs from the Queues window and Status window.

- *Print Console Quick Start Guide*

  Describes Print Console concepts and gives an overview on Print Console dialog boxes, panes, windows, menus, and system and job configuration.

- *Prinergy 2.x Workshop online help*

  Describes Prinergy concepts, dialog boxes, windows, menus, and procedures. Each product in the Prinergy family has its own Workshop online help.

- *Prinergy 2.x Connect Quick Start Guide, Prinergy Powerpack Quick Start Guide,* and *Prinergy Direct Quick Start Guide.*

  Describes Prinergy product concepts and gives an overview of the Prinergy user interface and workflows.

- *Prinergy 2.x System Administration Guide*

  Provides an overview of the Prinergy system and describes how to configure your system.

- *Prinergy 2.x Administrator online help*

  Describes how to use Prinergy Administrator.

About Creo

Creo is a world leader in solutions for the graphic arts industry. Core product lines include image capture systems; inkjet proofers; thermal imaging devices for films, plates and proofs; professional color and copydot scanning systems; and workflow management software. Creo is also an Original Equipment Manufacture supplier of on-press imaging technology, components for digital presses, and color servers for high-speed, print-on-demand digital printers.

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