CreoScitex
Customer Support

Vancouver Response Center
Tel: (604) 451-2727
Toll-Free Tel: (800) 472-2727
Fax: (604) 451-2713
Toll-Free Fax: (888) 767-2736

Customer Support Email:
callcentre@creoscitex.com

Prinergy 2.0 and Print Console 2.0 Connectivity

Document Number: **78-0039D-A**
Release Date: **February, 2001**

Introduction

This document is intended to help you use Prinergy 2.0 products—Prinergy Connect, Prinergy Powerpack, and Prinergy Direct—with Print Console 2.0. The document describes the following:

- Summary of Differences Between 1.0 and 2.0 Connections—see page 2
- How Prinergy Connects to Print Console—see page 3
- How to Connect Prinergy 2.0 and Print Console 2.0—see page 5
- How to Troubleshoot Connection Issues—see page 6
- How to Configure Print Console for a Prinergy Workflow—see page 7
- How to Configure Prinergy with GDAPI—see page 12
- How to Create Prinergy Process Plans for use with Print Console—see page 12
- How to Output Jobs from Prinergy to Print Console—see page 23
- Tips for Prinergy Workflows and Print Console—see page 26
- Related Print Console 2.0 and Prinergy 2.0 Documentation—see page 27

CreoScitex
3700 Gilmore Way
Burnaby, BC
V5G 4M1 CANADA
Tel: 1-604-451-2700
www.creoscitex.com

Summary of Differences Between 1.0 and 2.0 Connections

This section provides an overview of the differences between Prinergy and Print Console 1.0 and Prinergy and Print Console 2.0 as well as an explanation of the differences between a CRI connection and a GDAPI connection.

Overview of Differences

The following table summarizes the main differences between the Print Console 1.0 and Prinergy 1.0 connection and the Print Console 2.0 and Prinergy 2.0 connection.

Necessary Features	**Print Console 1.0 and Prinergy 1.0 using a CRI connection**	**Print Console 2.0 and Prinergy 2.0 using a GDAPI connection**
Do I use the Output Device Configuration Wizard to create a special Print Console start-up file?	Yes	No
Which output JTP do I use?	Device specific, for example, Trendsetter 3244	Generic (Print Console)
How does Prinergy appear in the Print Console list of available RIPs?	Plateworks RIP	Prinergy
Does Print Console require a default Prinergy plating print setup?	Yes	No
When do job separations appear in Print Console?	Each separation appears in the Print Console active queue as the separation is sent to the device.	All separations immediately appear in the Print Console active queue when the job enters Print Console.
Are Job Properties editable in Print Console?	Yes	No

Differences Between a CRI Connection and a GDAPI Connection

The major differences between a CRI connection and a GDAPI (Generic Device Application Programming Interface) connection are as follows:

- With a GDAPI connection, the RIP software workflow can connect to Print Console through GDAPI and ask the device about the capabilities the device supports—for example, resolution (2400dpi).
- GDAPI allows the RIP to choose the option required for a print session or job, and then uses those options to process jobs.

  That is, if you submit jobs to Print Console through GDAPI, you do not need to:

  - create hot folder input queues as the jobs are sent directly to Print Console from your RIP software workflow
  - configure Print Console with print setups for initializing job properties, because job properties are defined in the RIP software workflow and supplied to Print Console through GDAPI from the RIP software workflow

    Note: Even if you configure Print Console with print setups, Print Console does not apply those print setups to pre-approved raster images. The job properties defined in the RIP software workflow override the print setups configured in Print Console.

  - edit job properties from the pending queue. You must define and approve job properties from the RIP software workflow. Print Console displays all job properties in the Job Properties dialog box as view only when you submit the raster images through GDAPI.
- GDAPI makes new device capabilities visible to and configurable by the RIP software workflow, with minimal impact to the RIP. For example, if a device has new capabilities, such as express and economy modes in the case of the Trendsetter 2637 AL, GDAPI reports these new capabilities to the RIP, and they display as a configurable option in the RIP software workflow.

How Prinergy Connects to Print Console

How Prinergy connects to Print Console depends on the type of output you create.

Type of Output	How Prinergy Connects to Print Console
Plates	GDAPI direct connection. Prinergy submits pre-approved raster images directly to Print Console through GDAPI
Digital halftone proofs	Prinergy submits 1-bit pre-screened TIFF jobs to Print Console through hot folders and the CreoScitex TIFF Downloader

Prinergy does not submit proof jobs directly to Print Console through GDAPI because:

- You cannot map RIP colors to device colors in Prinergy. You must map RIP colors to device colors in Print Console.
- You must group and re-order proof-job color separations in Print Console. Print Console automatically reorders separation colors to match the color order in the proof cassette when you group your color separations. If you submit jobs through GDAPI, you cannot group and re-order the jobs in Print Console.

Plating Connectivity Overview

For plating, Prinergy submits pre-approved raster images directly to Print Console through GDAPI (Generic Device Application Programming Interface). When you select the appropriate output process plan in Prinergy, the Prinergy jobs display as approved in the **Pending** pane of the Queues window in Print Console.

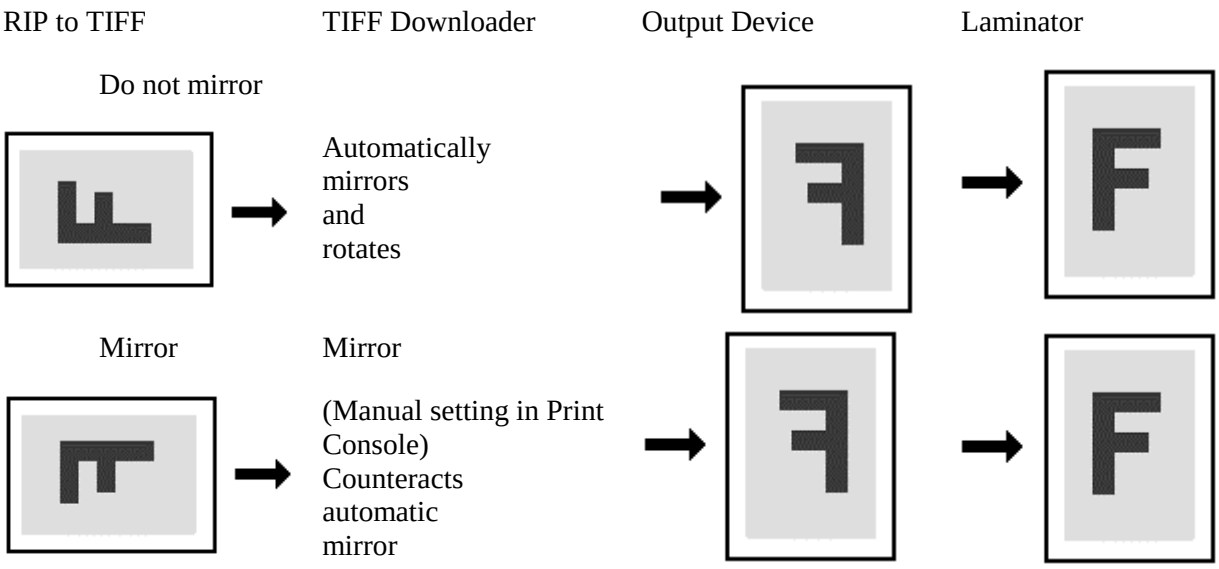
Note: If the device is initializing, Print Console displays pre-approved raster images as unapproved in the pending queue until the device finishes initializing. Print Console then displays raster images as approved.

Digital Halftone Proofing Connectivity Overview

For digital halftone proofing jobs, Prinergy submits 1-bit pre-screened TIFF jobs to Print Console through hot folders and the CreoScitex TIFF Downloader. Prinergy must generate TIFF jobs in a format that CreoScitex TIFF Downloader recognizes. CreoScitex TIFF Downloader requires pre-screened 1-bit raster data TIFF jobs. The raster data must 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 8up proof
- landscape orientation for a proof outputting in portrait orientation—for example, a 4up proof

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



How CreoScitex TIFF Downloader works

To generate acceptable TIFF jobs for CreoScitex TIFF Downloader and the medium 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. When you group, reorder according to cassette color order, and approve the job in Print Console, CreoScitex TIFF Downloader sends the raster data to the output device.

How to Connect Prinergy 2.0 and Print Console 2.0

This section describes the general workflow in setting up Print Console 2.0 and Prinergy 2.0 connectivity.

1. Start Print Console.
2. Configure device media, media sizes, print setups, color mappings, hot folders, and preferences.

   See the Print Console online help for instructions.
3. Start Prinergy Administrator.
4. Add a GDAPI JTP.

See the Prinergy Administrator online help for instructions on adding a JTP.

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

   See the Prinergy Workshop online help for instructions on creating a process plan.

6. Test the connectivity.

How to Troubleshoot Connection Issues

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

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

Error	Possible Solution
In Prinergy Administrator, the JTP for Print Console starts with the following error: PrintConsoleGDAPI.dll not found.	Verify Print Console is installed. Verify PrintConsoleGDAPI.dll is in the **\PrintConsole\bin** folder. Verify 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 display in Prinergy process plans.	Verify the JTP for Print Console is selected in the process plan. Verify 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.	Verify 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 displays: Some components can't be removed.	Close the JTP for Print Console in Prinergy Administrator. **Note:** You can't remove the components, because the JTP for Print Console uses the PrintConsoleGDAPI.dll file.

How to Configure Print Console for a Prinergy Workflow

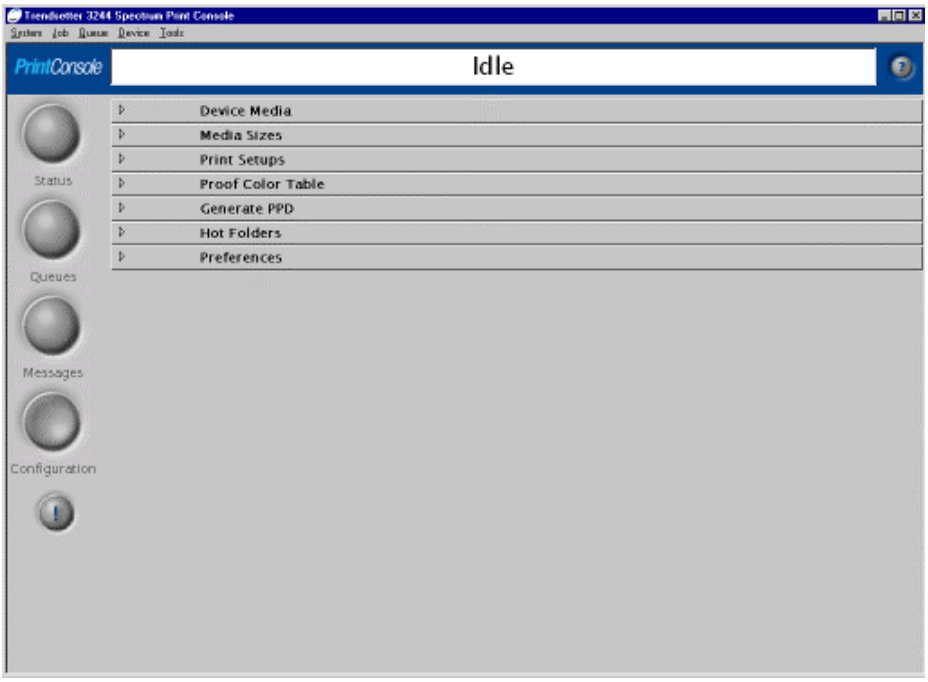
You configure Print Console differently for plating and digital halftone proofing. This section describes both configurations.

How to Configure Print Console for Plating

To configure Print Console for plating:

1. Click the **Configuration** button.

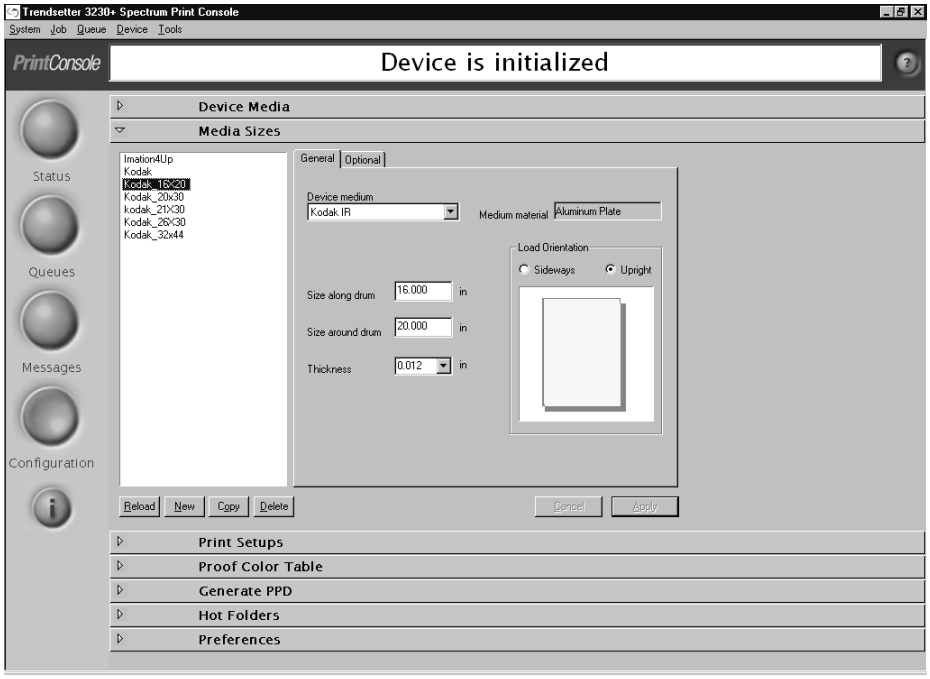
   The Configuration window displays.



Configuration window

2. Click the Media Sizes horizontal bar.

The **Media Sizes** pane drops down.



Media Sizes pane in the Configuration window

3. Configure Print Console with plate media size names to which you want to output. See *How to Create Fixed Media Sizes* in the Print Console online help for more information.
4. Click **Apply**.

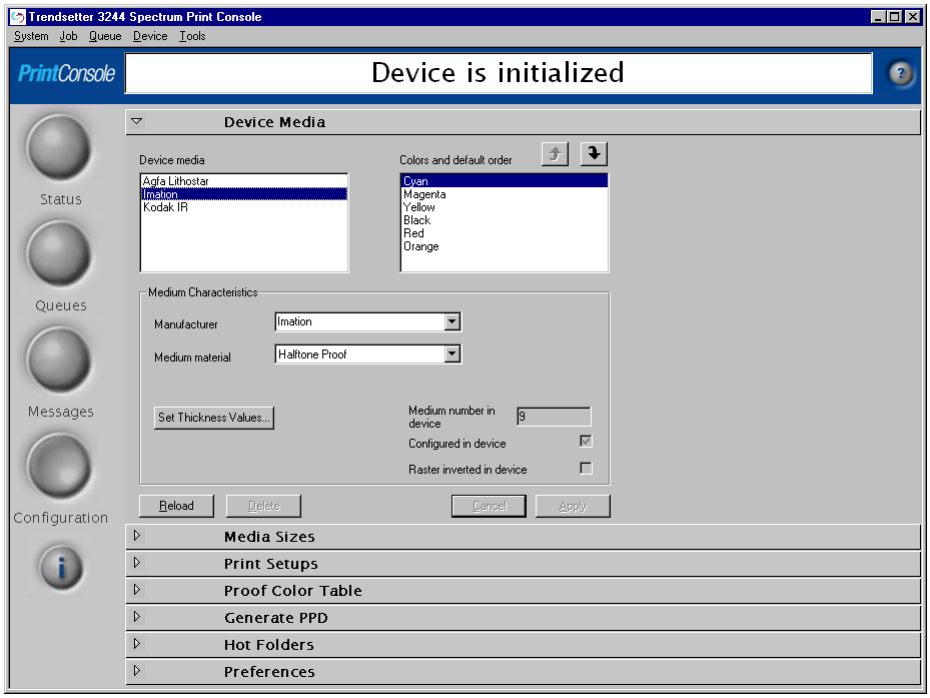
   When Prinergy and Print Console connect, the fixed media size names that you configured in the **Media Sizes** pane display as options in the **Name** box on the **Layout** pane—Final Output Process Plan dialog box in Prinergy.

How to Configure Print Console for Digital Halftone Proofing

To create a print setup for digital halftone proofing:

1. Click the Device Media horizontal bar.

   The Device Media pane drops down.



Device Media pane on the Configuration window

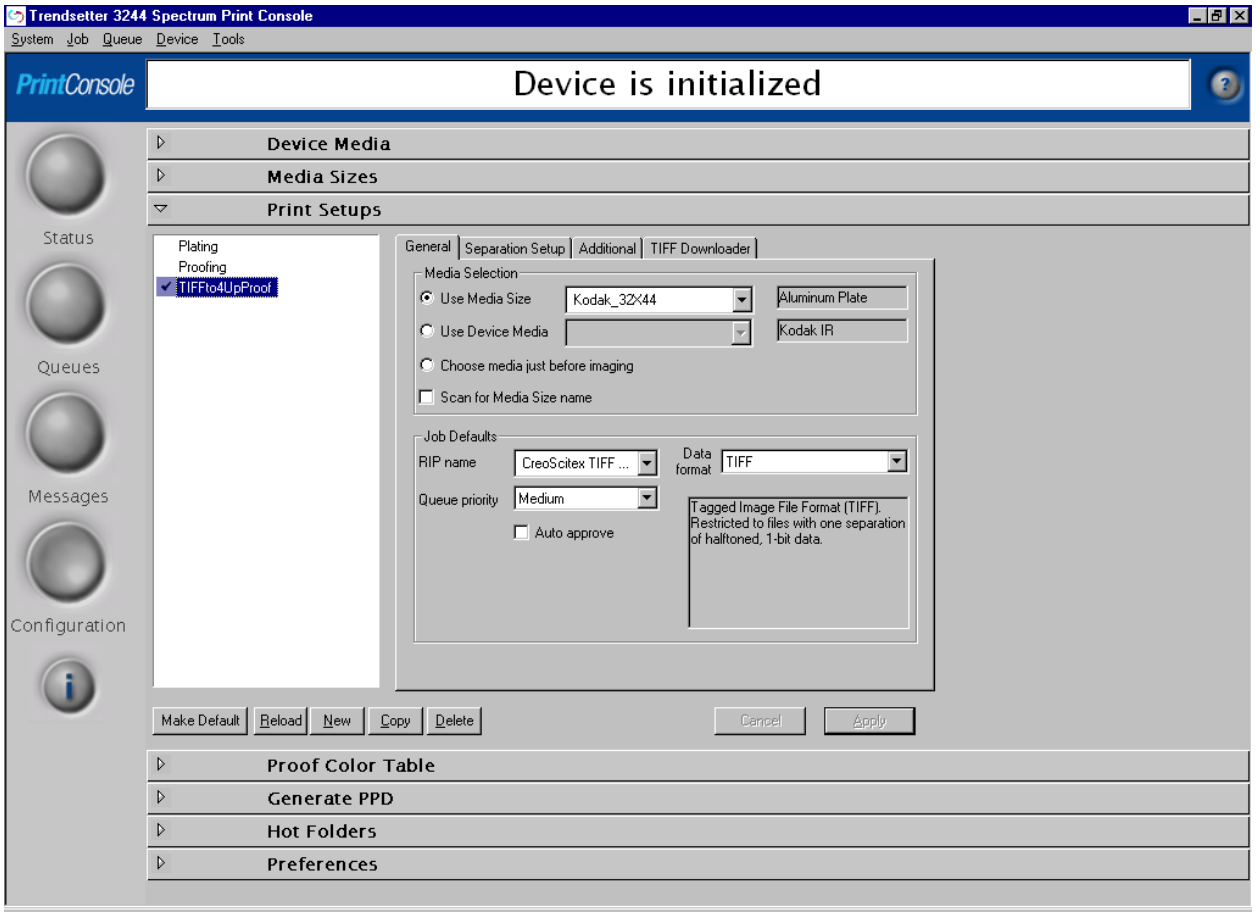
2. In the **Device media** box, select the proofing device media configured in your device—for example, Imation.
3. In the **Colors and default order** box, reorder the device colors to match the color order in your cassette.

   When you group TIFF proof separations, Print Console reorders the separations to match this default color order.

4. In the Media Sizes pane, configure Print Console with proof media size names to which you want to output. See *How to Create Fixed Media Sizes* in the Print Console online help for more information.

5. Create a print setup, setting the options as described next.

   For digital halftone proofing, you need to create a print setup and a hot folder, and you attach the print setup to the hot folder. You need to create a hot folder and print setup for each digital halftone proof size. For example, you would create a print setup and hot folder for 4-up digital halftone proofs and a print setup and hot folder for 8-up digital halftone proofs.



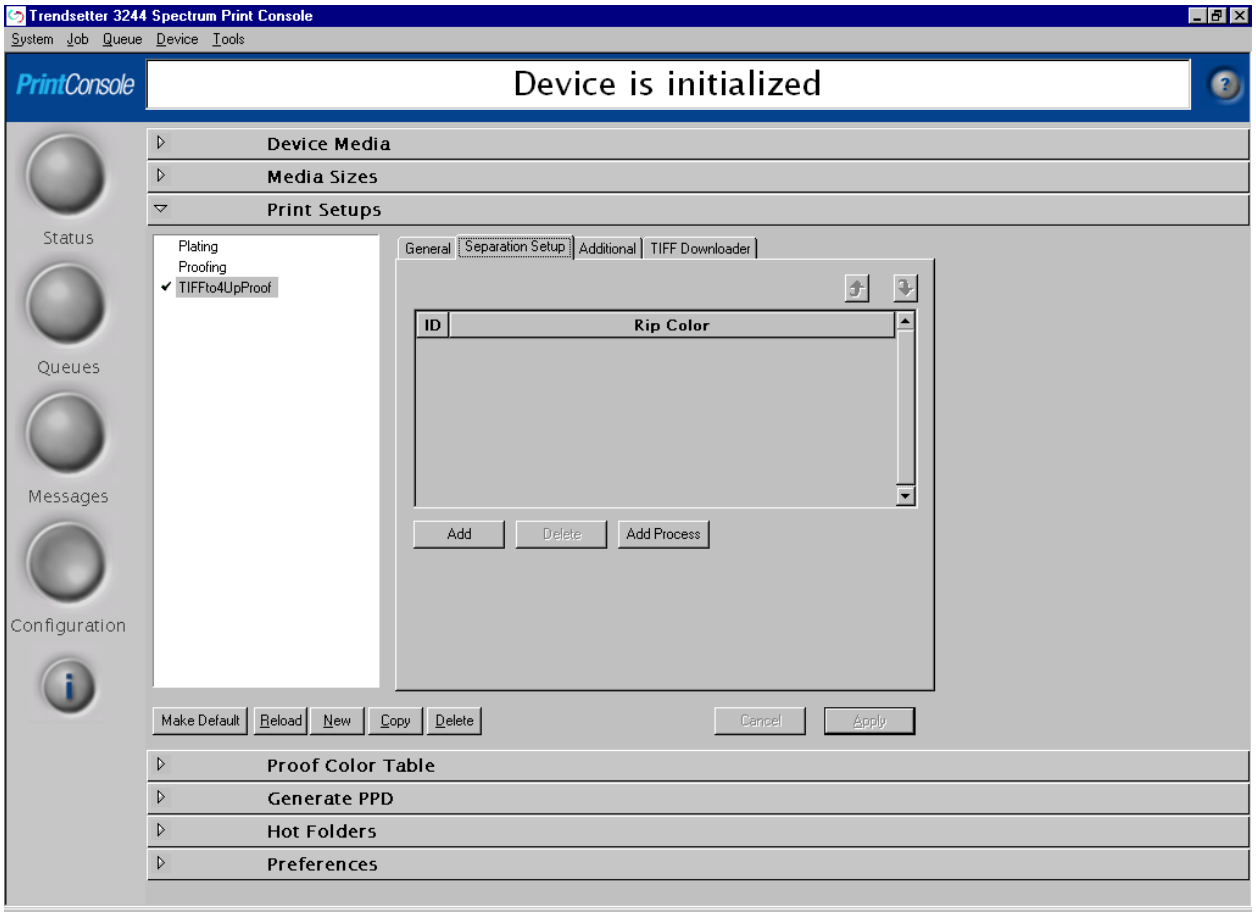
Print Setups pane on the Configuration window

When you create a print setup for digital halftone proofing, set these options as follows on the **Print Setups** pane on the Configuration window in Print Console:

- Click **New**, and in the Enter Print Setup Name dialog box, type a name that accurately identifies the print setup purpose—for example, TIFFto4UpProof.
- From the **Use Media Sizes** box, select a fixed medium size for digital halftone proofing.
- From the **RIP Name** box, select CreoScitex TIFF Downloader.
- From the **Data Format** box, select **TIFF**.
- Clear the **Scan for Media Size name** check box.

- Clear the **Auto approve** check box to turn automatic job approval off.
- If you want new RIP colors to be added to the Proof Color Table, in the **Separation Setup** tab, select the **Add new RIP color to the Proof Color Table** radio button.

See *How to Create New Print Setups* in the Print Console online help.



Print Setups pane—Separation Setup tab

6. Set the remaining options on the **Print Setups** pane as desired.
7. To create a hot folder:

- Select the **Hot Folders** pane from the Configuration window. The **Hot Folders** pane drops down.
- Click **New**. Print Console activates the hot folder boxes in the Hot Folders pane.
- In the **Spool directory**, type a directory or browse for the hot folder input queue—for example, e:\spool\4UpProof.
- Select the **Enabled** check box to enable the hot folder input queue.
- Set the **Spool File Settings** as desired.
- In the **Print Setup** box, select a print setup to attach to the hot folder—for example, TIFFto4UpProof.
- Set the **Scan for new files every** and **File Stabilization** time options.
- 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.

8. Repeat steps 1 to 4 for all available proof sizes.

How to Configure Prinergy With GDAPI

For information on configuring Prinergy with GDAPI, see the *Prinergy Installation Guide*.

Note: Service personnel configure Prinergy with GDAPI for you; you don't do it yourself.

How to Create Prinergy Process Plans For Use with Print Console

This section describes the Prinergy process plan settings you must use for Print Console connectivity to work. 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 detailed instructions on creating process plans, see the Prinergy Workshop online help.

Spectrum Proofing

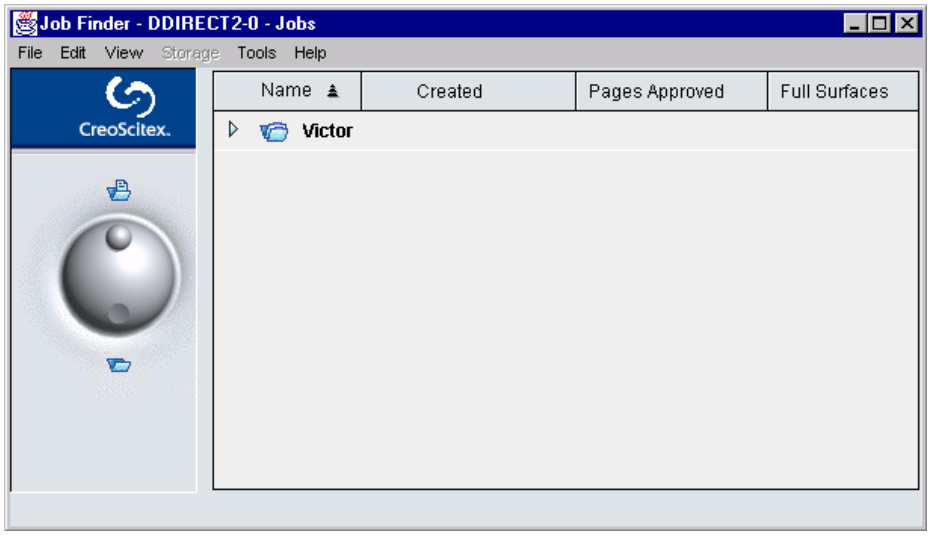
If you want to create Spectrum proofs, you need to set up imposition proof output process plans. For more information about imposition proof process plans, see your Prinergy Workshop help.

Note: For other proofing devices you also need to set up imposition proof output process plans.

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

1. Start the Prinergy Workshop.

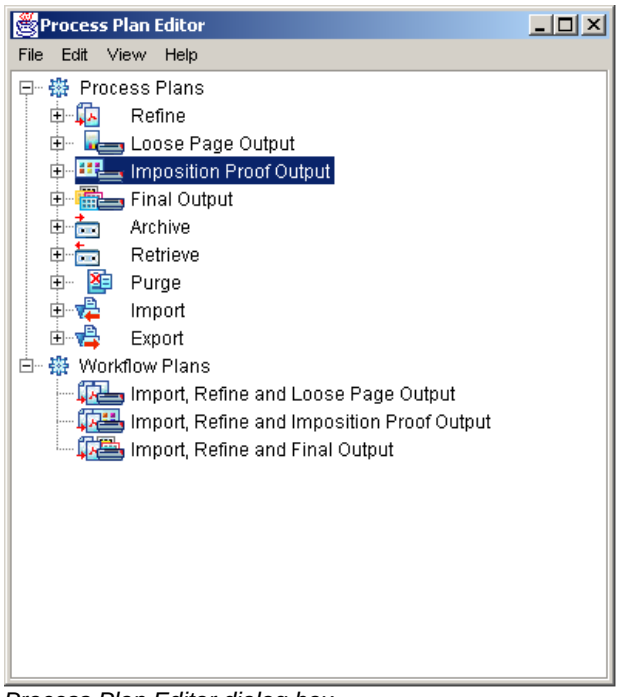
The Job Finder window displays.



Job Finder window

2. From the **Tools** menu, select **Process Plan Editor**.

   The Process Plan Editor dialog box displays.



Process Plan Editor dialog box

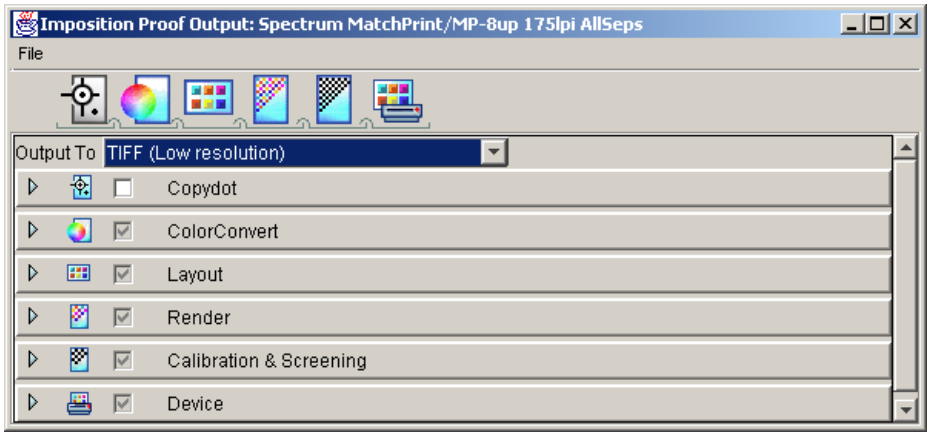
3. If required, in the Process Plan Editor window, click **Process Plans** to display the types of process plans you have.

4. Click **Imposition Proof Output** to display your imposition proof output groups. Click the group you want, and then double-click the imposition proof output process plan you want to edit, or create a new output process plan.

   The Imposition Proof Output Process Plan dialog box for the process plan you selected displays.

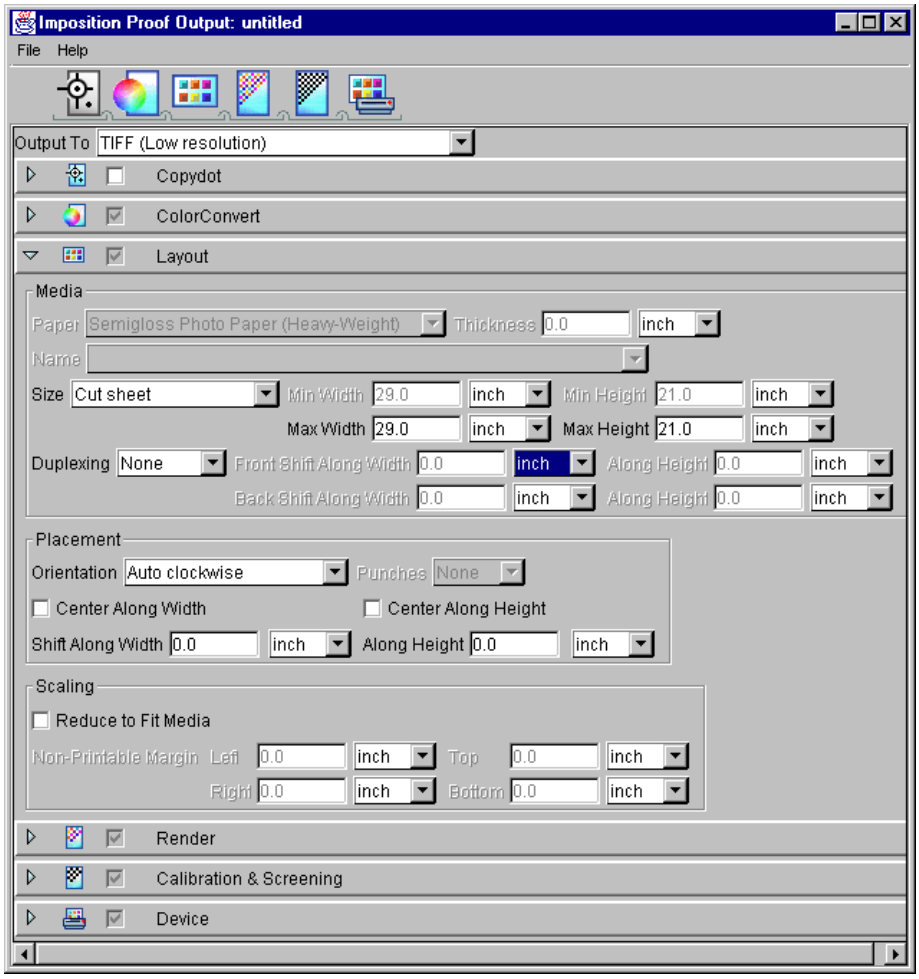
   Note: Spectrum Matchprint Imposition Proof process plans contain settings that are already correctly configured, except for the Print Console hot folder locations.

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



Imposition Proof Output Process Plan

5. From the **Output To** box, select **TIFF (Low Resolution)**.
6. Click the **Layout** horizontal bar.
7. The **Layout** pane drops down.



Imposition Proof Output—Layout pane

8. In the **Media** section, type the dimensions of the imageable area of each proof.

   For example, type 29 x 21 for 4-up proof, or 29 x 39 for 8-up proof.

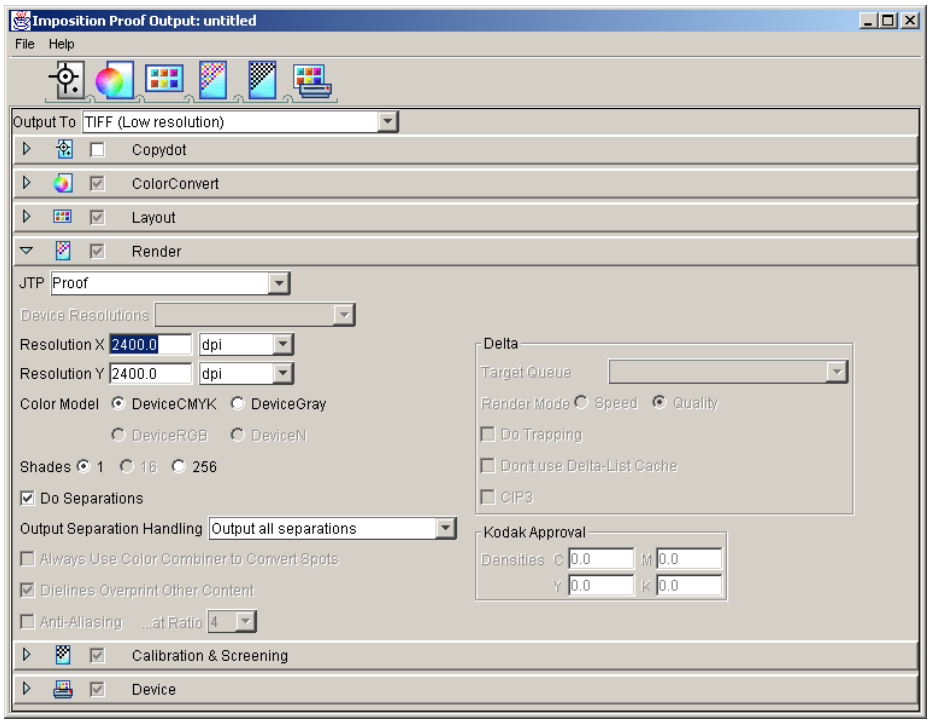
   Important:
   You must specify the dimensions of the imageable area rather than the media size. If you create a TIFF job that matches the media size rather than the imageable area, the image will shift on the proof.

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

   Note: 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*.

9. Click the **Render** horizontal bar.

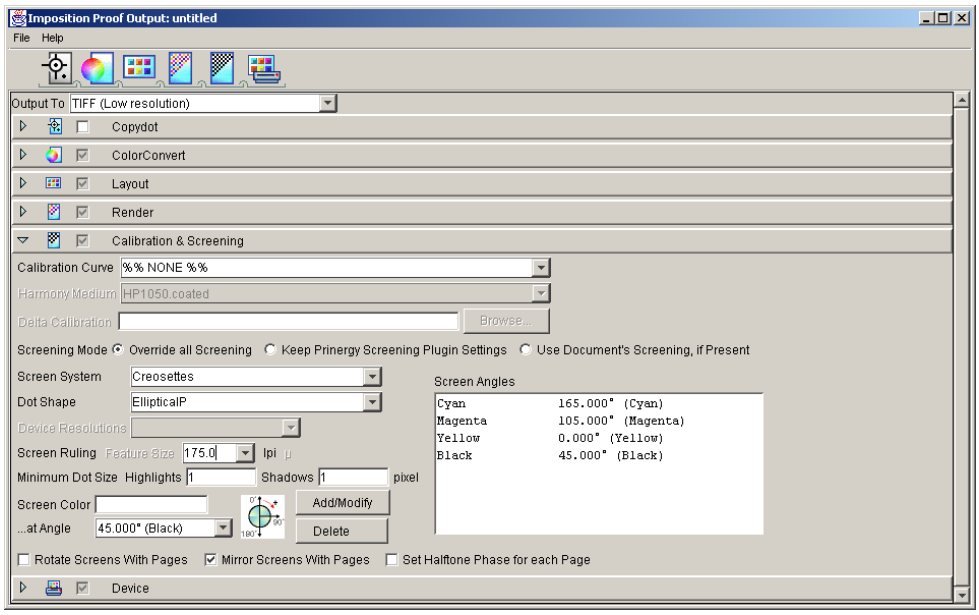
The **Render** pane drops down.



Imposition Proof Output—Render pane

10. Check that the process plan is configured correctly. See the Prinergy Workshop online help for information on configuring options in the **Render** pane.
11. Click the **Calibration & Screening** horizontal bar.

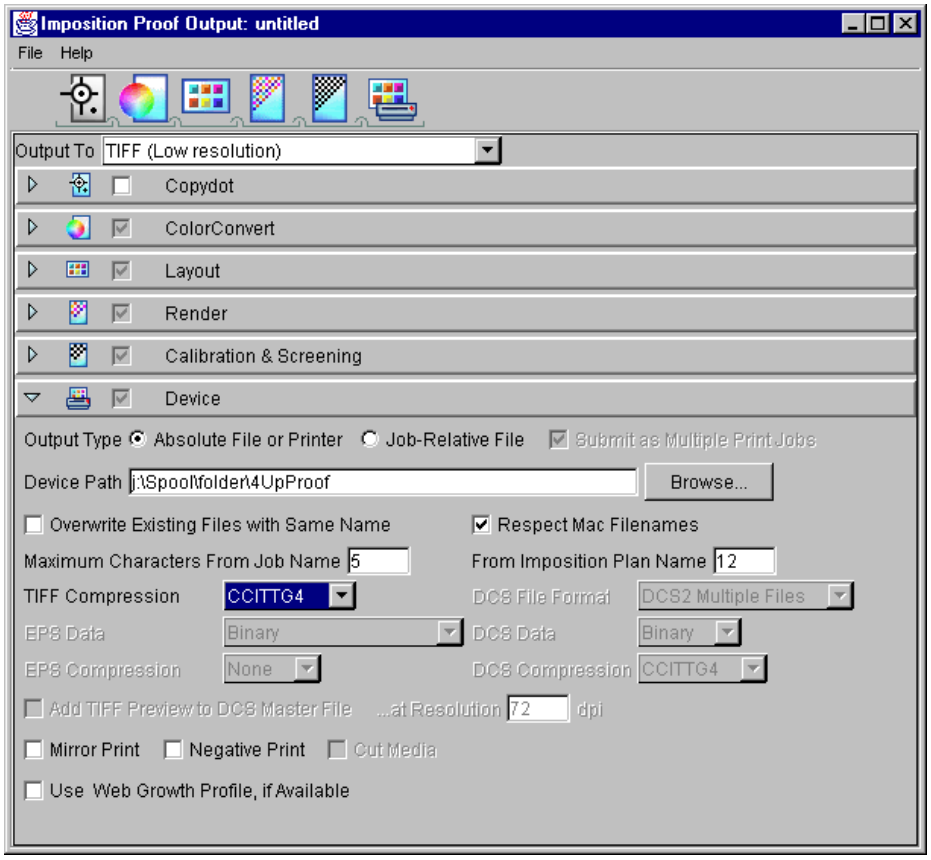
The **Calibration & Screening** pane drops down.



Imposition Proof Output—Calibration & Screening pane

12. In the **Calibration Curve** box, select the calibration curve to use.
13. In the **Screening Ruling** box, select the screening ruling to use.
14. Click the **Device** horizontal bar.

The **Device** pane drops down.



Imposition Proof Output—Device pane

15. In the **Output Type** box, select **Absolute File or Printer**.
16. 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.

17. In the **TIFF Compression** box, select the type of compression you want to use. CreoScitex recommends you select CCITG4 compression whenever possible.
18. Clear the **Mirror Print** check box.

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

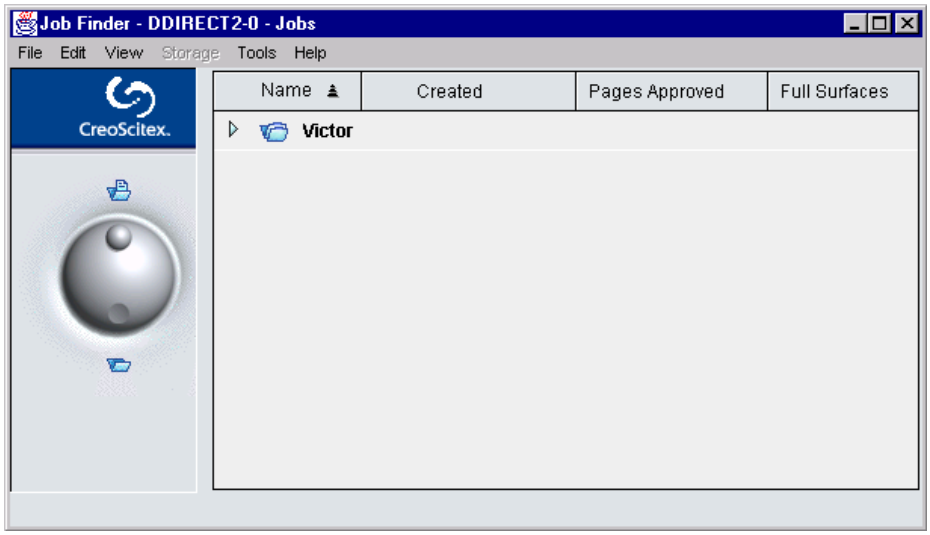
19. From the **File** menu, select **Save** to save the imposition proof output process plan

Plating

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

1. Start the Prinergy Workshop.

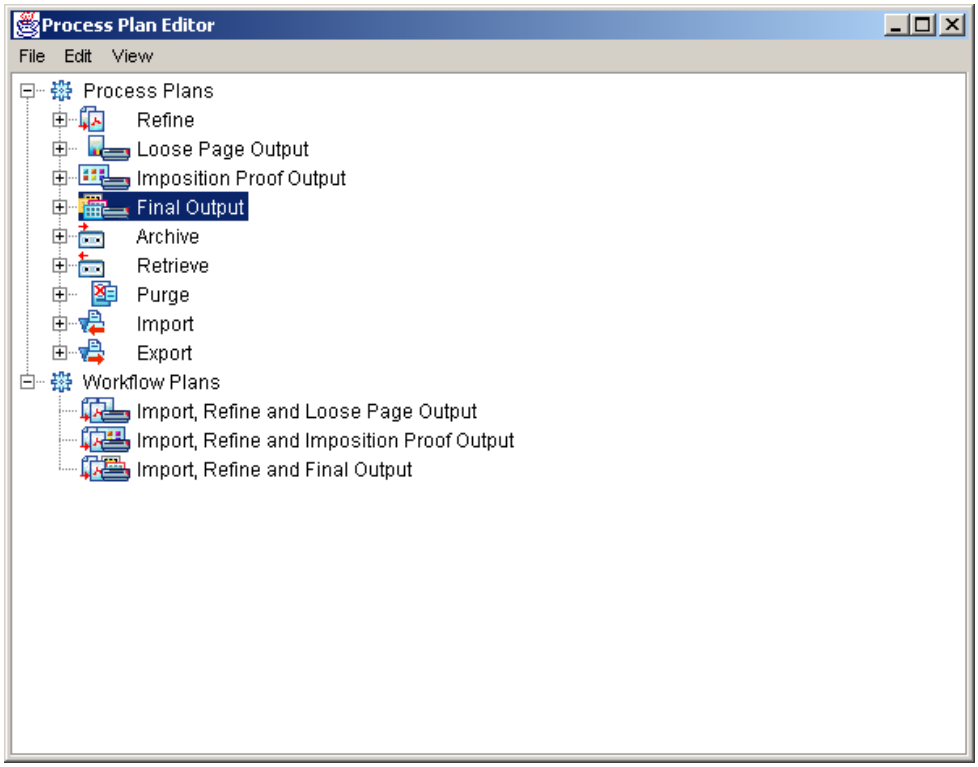
   The Job Finder window displays.



Job Finder window

2. From the **Tools** menu, select **Process Plan Editor**.

The Process Plan Editor dialog box displays.

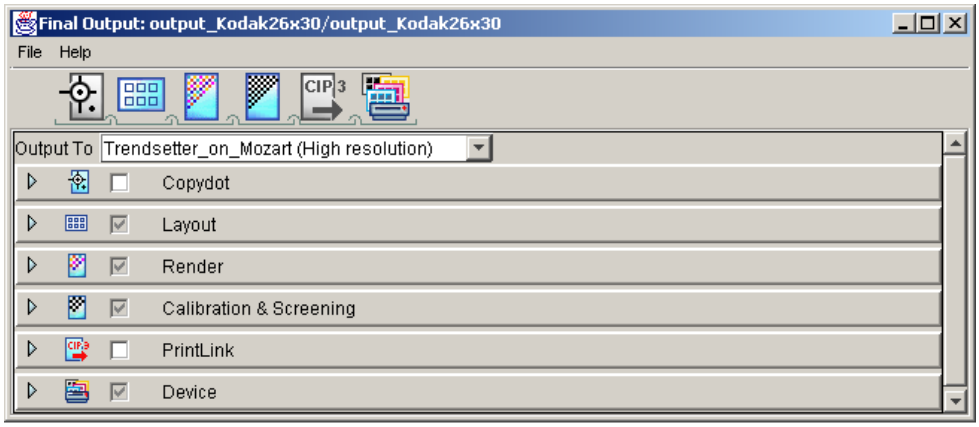


Process Plan Editor dialog box

3. If required, in the Process Plan Editor window, click **Process Plans** to display the types of process plans you have.
4. Click **Final Output** to display your imposition proof output groups. Click the group you want, and then double-click the imposition proof output process plan you want to edit.

The Final Output Process Plan dialog box for the process plan you selected displays.

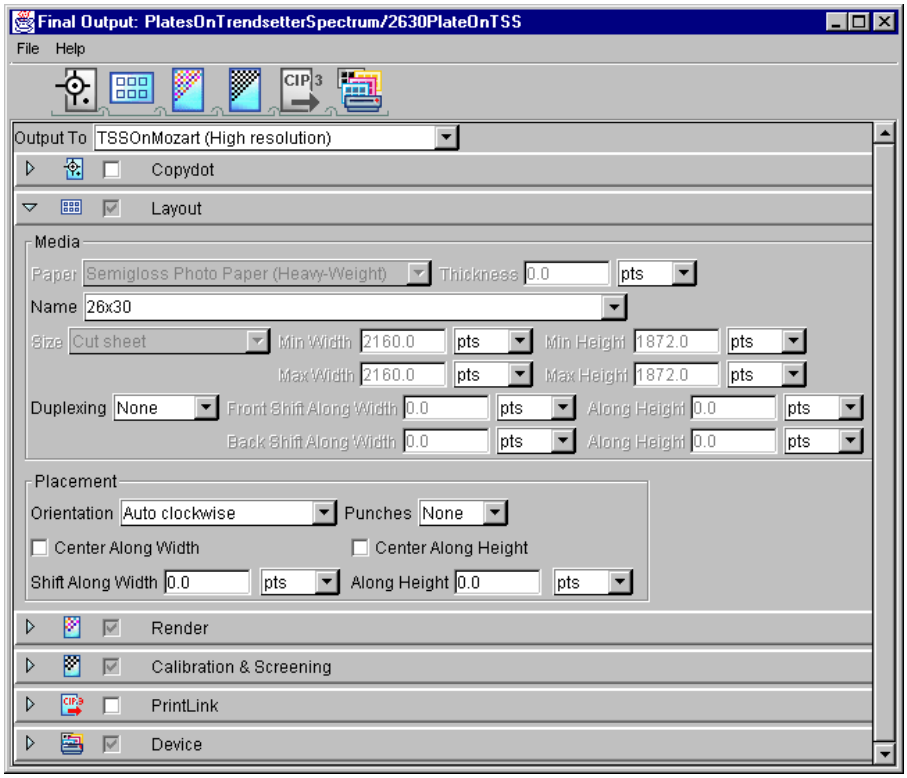
For more information about process plans, see your Prinergy Workshop online help.



Final Output Process Plan dialog box

5. In the **Output To** list box, select the name of the GDAPI Print Console JTP that you created in the Output JTP dialog box.
6. Click the **Layout** horizontal bar.

The **Layout** pane drops down.

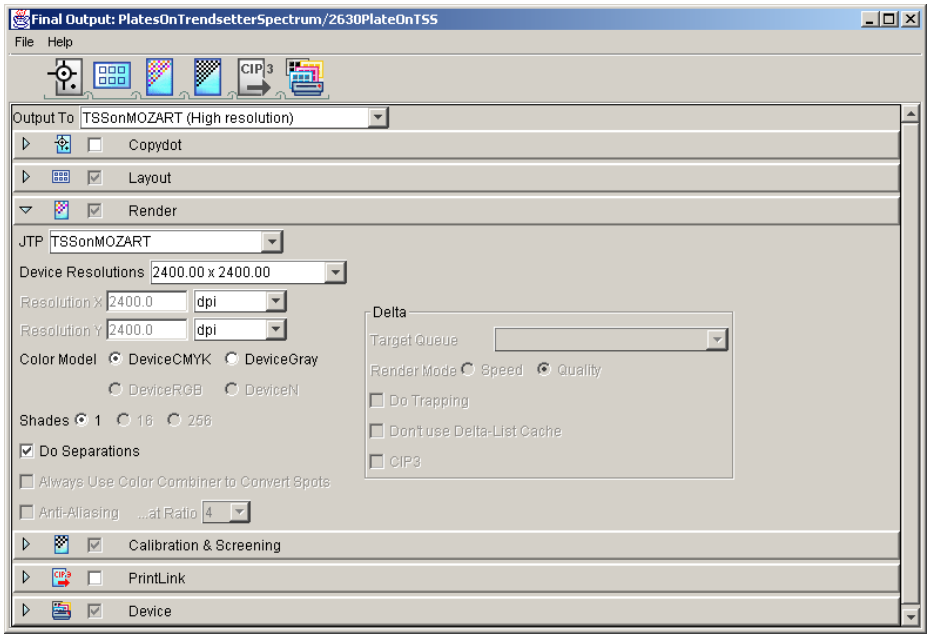


Final Output Process Plan—Layout pane

7. In the **Name** box, select a fixed medium size—configured in Print Console—from the list of options.

8. Click the **Render** horizontal bar.

   The **Render** pane drops down.



Final Output Process Plan—Render pane

   The **Device Resolutions** box shows the available device resolutions that Print Console sends to Prinergy.

9. From the **File** menu, select **Save** to save your settings for the final output process plan.
10. Repeat steps 3 to 9 for every plate size you want to output to, picking the appropriate plate size from the **Name** box in the **Layout** pane.

    For more information, see your Prinergy Workshop online help.

How to Output Jobs From Prinergy to Print Console

Once your process plans are set up, you can run jobs through Prinergy using the appropriate process plan for the action you want to apply to the submitted job data—for example, call an imposition proof output plan if you want to create a Spectrum proof for the job.

For more information about running jobs, refer to your Prinergy Workshop online help.

Once you apply the output process plan you want to use—that is, the final output process plan if you are creating plates, or the imposition proof output process plan if you are creating Spectrum proofs—the job is automatically submitted to Print Console. If you are creating plates, the job automatically begins processing. If you are creating proofs, you must:

- group the separations
- reorder the separations according to the cassette order if Print Console did not reorder the separations automatically when you grouped the separations.
- map the spot colors to the device donor colors
- approve the proof job to be processed

The job submitted to Print Console displays in the Print Console pending queue as approved, ready to be processed. 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.

How to Image Plates

This section describes how to submit jobs to Print Console to create plates.

To image plates:

- Use the appropriate Prinergy final output process plan to submit the job to Print Console.

  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. When Print Console processes a job, it moves it to the Status window.

Note: 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.

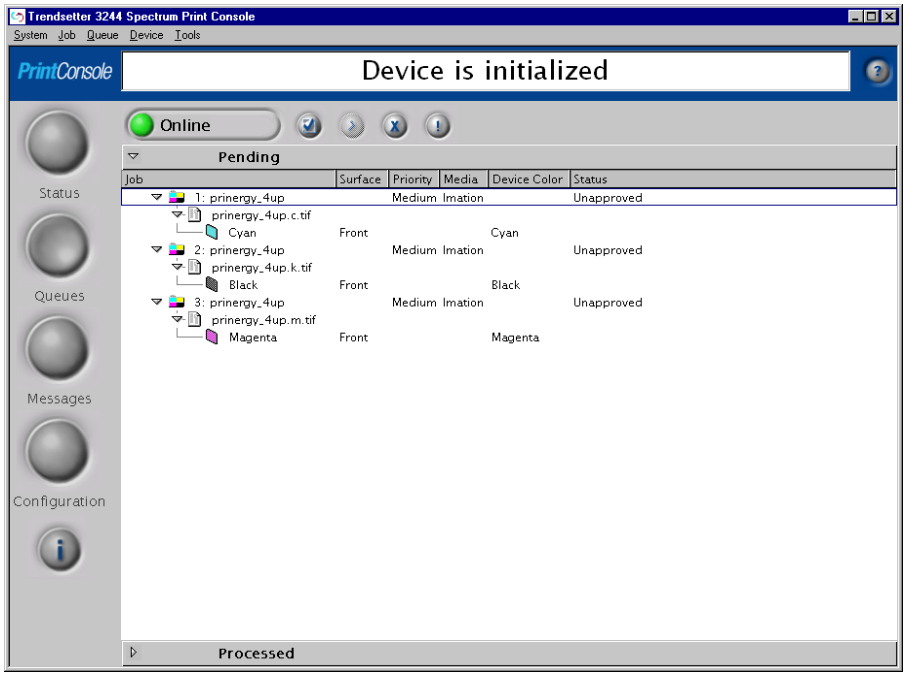
How to Image Digital Halftone Proofs

This section describes how to submit jobs to Print Console to create digital halftone proofs.

To image digital halftone proofs:

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

   The Prinergy process plan 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, if you prefer, do not create any proof color mappings, and let Print Console ask you for the device color on which you want to image each spot color separation. Print Console asks this 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 on the Status window. CreoScitex TIFF Downloader proceeds to send the TIFF raster data to the device.

Tips for Prinergy and Print Console Workflows

The following tips will help you to work with Prinergy and Print Console effectively.

- When generating a PPD or PPX file in Print Console to use in your 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.

- Use the Refiner PPD file that comes with Prinergy with your desktop applications, such as QuarkXPress. Use the PPD file generated by Print Console with your imposition software, such as ScenicSoft Preps.
- 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, in the Print Console online help, click the **Contents** tab and select **Managing Color Mappings**.

Related Print Console 2.0 and Prinergy 2.0 Documentation

You can find more information in the following documentation:

- *Print Console Online help*

  Describes Print Console concepts, dialog boxes, windows, menus, and 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 2.0 and Print Console 2.0 Connectivity Technical Bulletin*

  Describes how Prinergy 2.0 connects to Print Console 2.0, how to configure Print Console 2.0 for Prinergy 2.0, and how to image media using Prinergy 2.0, Print Console 2.0, and an output device. It also includes Prinergy 2.0 workflow tips.

- *Prinergy 2.0 Workshop Online help*

  Describes Prinergy concepts, dialog boxes, windows, menus, and procedures. Each product in the Prinergy family has customized Workshop Help.

- *Prinergy 2.0 Connect Quick Start Guide, Prinergy Powerpack Quick Start Guide, Prinergy Direct Quick Start Guide.*

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

- *Prinergy 2.0 System Administration Guide*

  Provides an overview of the Prinergy system. It also describes how to configure your system, and run archiving and backup.

- *Prinergy 2.0 Administrator Online Help*

  Describes how to use Prinergy Administrator.