Creo 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@creo.com

Imaging Thermal Bluelines Using Prinergy and Print Console

Document Number: 78-0083B-C
Release Date: **July, 2001**

Introduction

This document intends to help you process thermal blueline jobs using Prinergy 2.0 products—Prinergy Connect, Prinergy Powerpack, and Prinergy Direct—and Print Console 2.1. To create thermal bluelines, use Prinergy Version 2.0 (2.0.4 build 69 with patch 5) or higher and Print Console 2.1 (2.1.1.15).

This document describes the following:

- A Word About Workflow—see page 2
- How to Configure Print Console—see page 2
- How to Configure Prinergy—see page 4
- How to Process a Thermal Blueline Job Using Prinergy and Print Console—see page 11
- Common Questions and Answers—see page 12
- Why is the Duplexing Option Set to Tumble Instead of Turn—see page 12

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

A Word About Workflow

For thermal blueline jobs, Prinergy submits 1-bit pre-screened TIFF files to Print Console via hot folders, and Print Console outputs the TIFF files via Creo TIFF Downloader to the Trendsetter device.

Prinergy must generate TIFF files in a format that Creo TIFF Downloader recognizes. Creo TIFF Downloader requires pre-screened 1-bit TIFF files. The raster data must be rotated 90° and mirrored from the expected output by the RIP (raster image processor) that generates the TIFF files. In this case, Prinergy must generate TIFF files that meet the above specifications.

When the Trendsetter images the TIFF files on thermal blueline media, you must *always* turn the thermal blueline media—that is, sheetwise rotate—on the device, even if the imposition workstyle is tumble. The device is designed so that you always turn the media.

Note: Prinergy generates TIFF files in the correct orientation for the media—regardless of the imposition style used in the job—so that when you turn the media on the device, the TIFF files back up.

How to Configure Print Console

This section describes how to configure Print Console for processing thermal blueline jobs. Following is an overview of the configuration. For detailed procedures, see *Creating Thermal Blueline Proofs* in the Print Console online help.

To configure Print Console for processing thermal blueline jobs:

1. In Print Console, in the Device Media pane, ensure your service representative configured a device media for thermal blueline media, and that Print Console displays the thermal blueline media as type thermal proof.

   If you don't have a device media configured for thermal bluelines, contact your service representative to configure one for you.

2. In the Media Sizes pane, configure a media type for thermal bluelines.

   Ensure you set these options as follows:

   In the **Size along drum** box, type the width of the imageable area of the media, for example, **40.55**. The imageable area is 40.55 inches; the actual size of the media is 41.55 inches—see the graphic on page 3.

   In the **Size around drum** box, type the height of the media, for example, **30.3125**.

   In the **Thickness** box, type **.004**.

3. In the Print Setups pane, create a print setup for thermal bluelines.

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

Ensure you set these options as follows:

From the **Use media size** box, select the thermal blueline media type you configured in step 2.

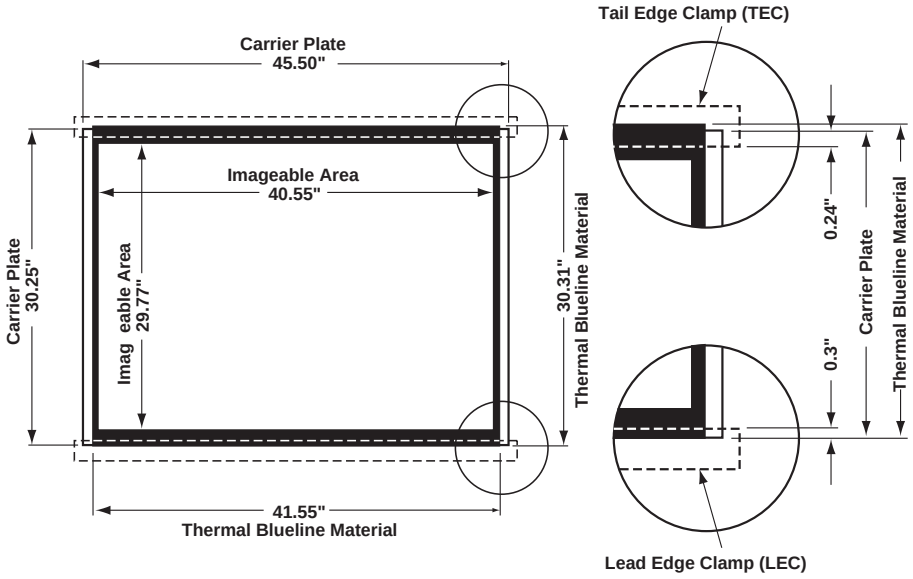
From the **RIP** box, select **Creo TIFF Downloader**.

Clear the **Auto approve** check box.

4. In the Hot Folders pane, create a hot folder for thermal bluelines, and attach the thermal blueline print setup to it.

   This is the hot folder to which Prinergy sends TIFF files.

   The figure below illustrates the difference between the actual size of a medium and the imageable area of a medium.



Thermal Blueline Media

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

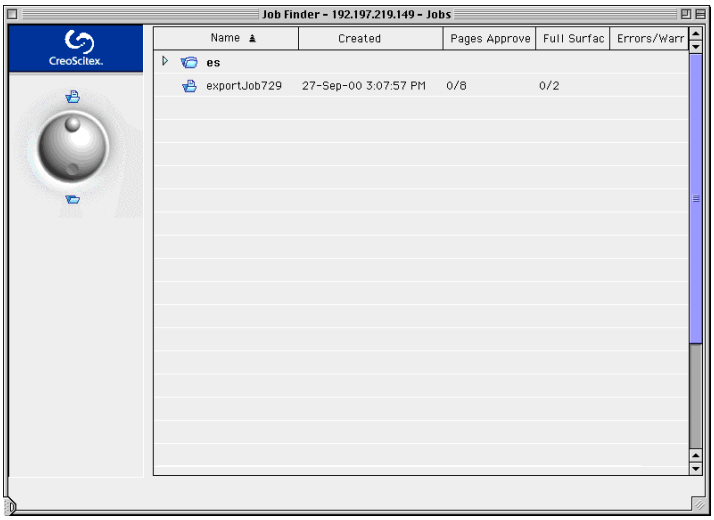
How to Configure Prinergy

This section describes how to configure Prinergy for processing thermal blueline jobs. To configure Prinergy for processing thermal blueline jobs, create an imposition proof output process plan for thermal bluelines.

To create an imposition proof output process plan for thermal bluelines:

1. Start Prinergy Workshop.

   The Job Finder window displays.

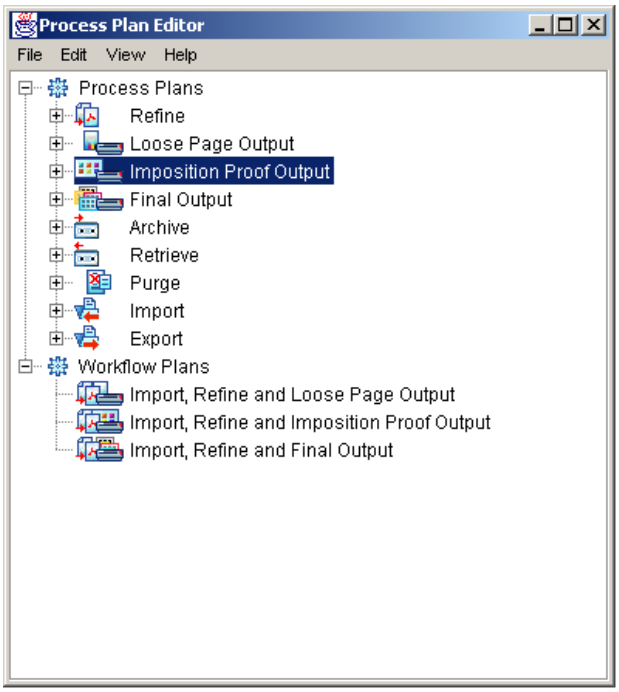


Job Finder window

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

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

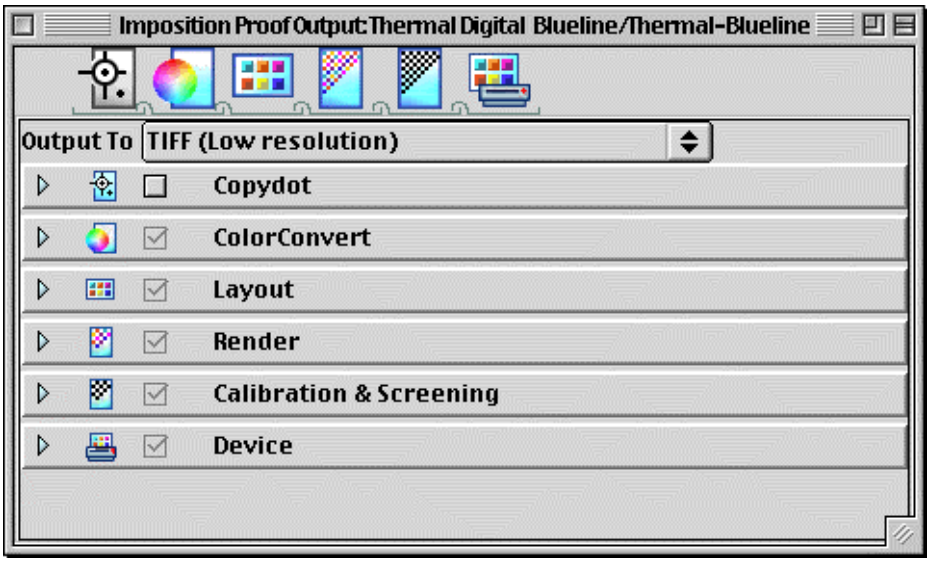
The Process Plan Editor dialog box displays.



Process Plan Editor dialog box

3. If required, in the Process Plan Editor window, click **Process Plans** to display the types of process plans.
4. Click **Imposition Proof Output** to display the 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 displays.

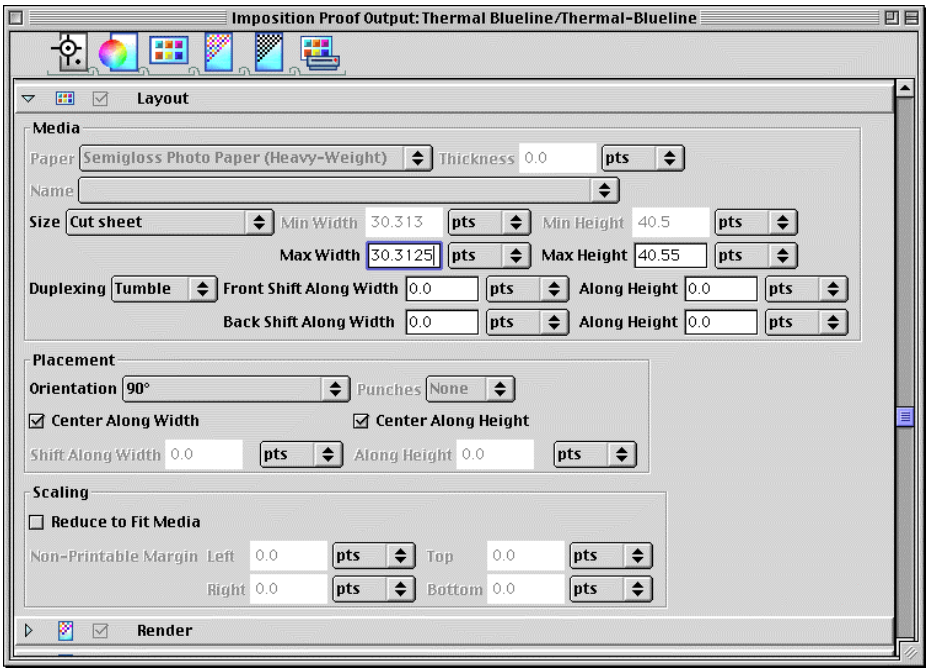


Imposition Proof Output Process Plan

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

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

The **Layout** pane drops down.



Imposition Proof Output – Layout pane

7. Set the following options in the **Layout** pane:

   From the **Size** box, select **Cut Sheet**.

   From the **Duplexing** box, select **Tumble**. For an explanation of this setting, see *Why is the Duplexing Option Set to Tumble Instead of Turn?* on page 12.

   In the **Max Width** box, type the height (yes, the height) of the thermal blueline media, for example, **30.3125**. (This is the **Around the drum** measurement in Print Console.)

   In the **Max Height** box, type the width (yes, the width) of the imageable area of the thermal blueline media, for example, **40.55**. (This is the **Along the drum** measurement in Print Console.)

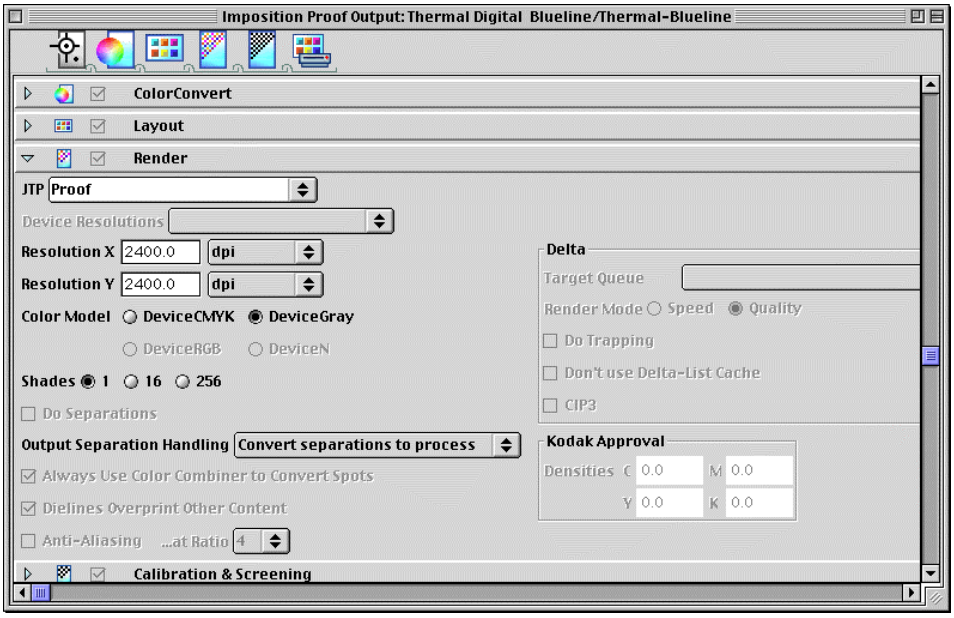
   From the **Orientation** box, select **90°**. (This option specifies the image placement in the TIFF file.)

   Select the **Center Along Width** check box.

   Select the **Center Along Height** check box.

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

   The **Render** pane drops down.



Imposition Proof Output – Render pane

9. Set the following options in the **Render** pane:

   From the **JTP** box, select a TIFF output pool, such as **Proof**.

   In the **Resolution X** and **Y** boxes, type **2400**.

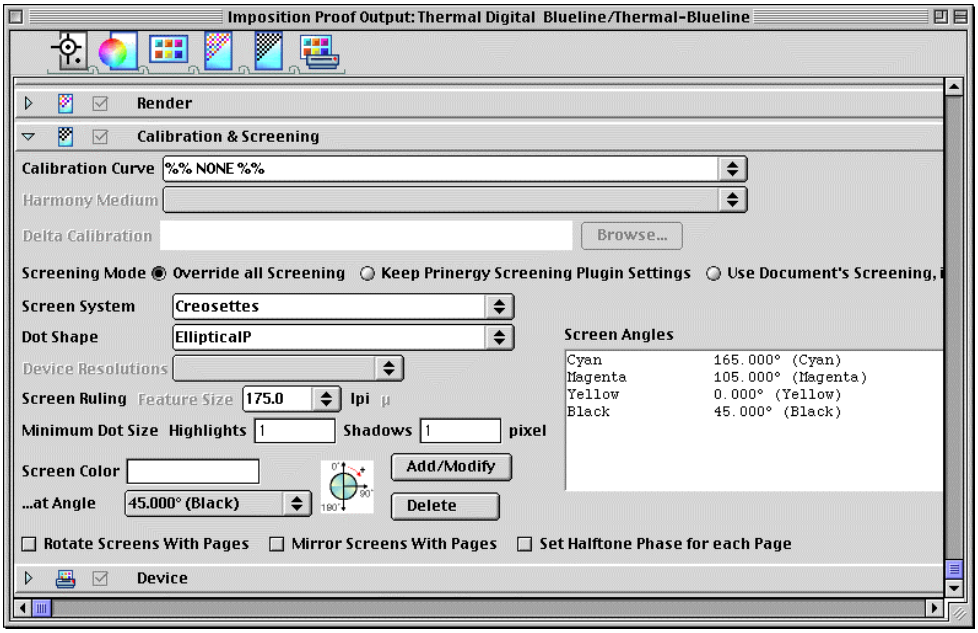
   Beside **Color Model**, select the **DeviceGray** radio option.

   Beside **Shades**, select the **1** radio option.

   From **Output Separation Handling**, select **Convert separations to process**.

10. Click the **Calibration & Screening** horizontal bar.

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



Imposition Proof Output – Calibration & Screening pane

11. Set the following options in the **Calibration & Screening** pane:

    From the **Calibration Curve** box, select **%%NONE%%**.

    From the **Screen Ruling** box, select **175**.

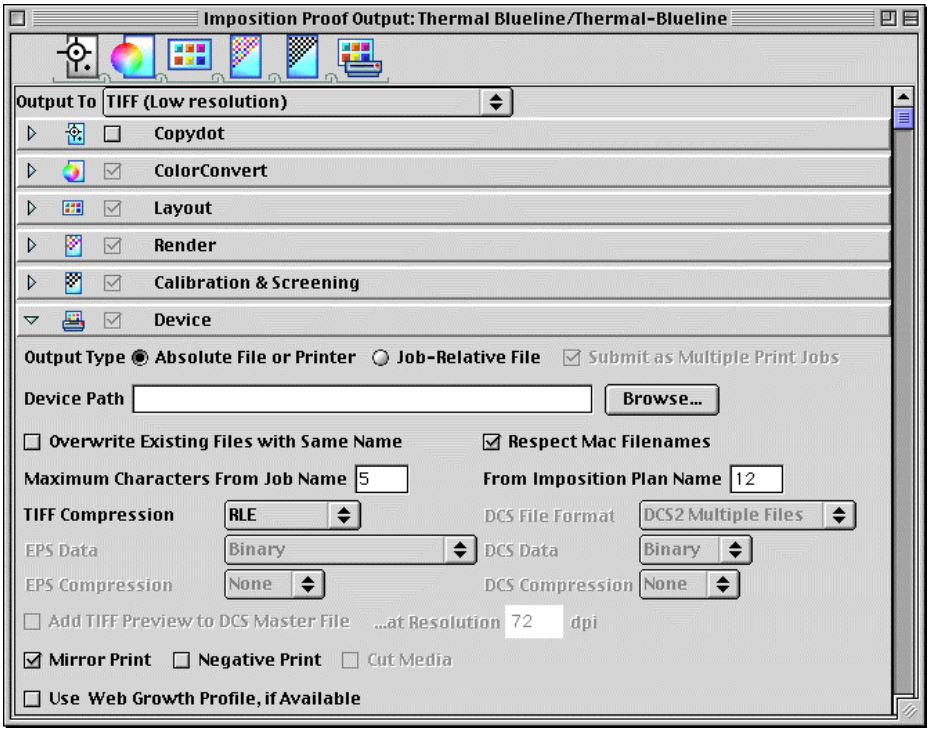
    From the **…at Angle** box, select **45**.

    Select the **Rotate Screens With Pages** check box.

    Note: The system screens all separations at the same angle, and it always uses Euclidean dot shape. As a result, you don't need to select a screen system from the **Screen System** box or a dot shape from the **Dot Shape** box. The system also overrides the screen ruling to 175 lpi and the angle to 45°, regardless of how you set the **Screen Ruling** and **…at Angle** options.

12. Click the **Device** horizontal bar.

    The **Device** pane drops down.



Imposition Proof Output – Device pane

13. Set the following options in the **Device** pane:

    Beside **Output Type**, select the **Absolute File or Printer** radio option.

    In the **Device Path** box, specify the path to the thermal blueline hot folder for Print Console.

    Clear the **Overwrite Existing Files with Same Name** check box.

    From the **TIFF Compression** box, select **RLE**.

14. From the **File** menu, select **Save** to save the imposition process plan.

    The Imposition Proof Output Process Plan dialog box closes, and the Process Plan Editor displays.

15. From the **File** menu, select **Close Window** to close the Process Plan Editor.

How to Process a Thermal Digital Blueline Job

This section describes how to process a thermal blueline job using Prinergy and Print Console. Following is an overview of the process. For details on specific procedures, see the online help in Prinergy Workshop and Print Console.

To process a thermal digital blueline job:

1. In Prinergy, create a job.

   For details, see the Prinergy Workshop online help.

2. For the Prinergy job, do the following: add input files, refine the input files, import an imposition plan, and assign pages to page positions to produce a populated imposition.

   For details, see the Prinergy Workshop online help.

3. In Prinergy, in the Signatures view or Separations view in the Job Manager window, select an entire signature from the imposition—that is, the front and back of the signature. For work-and-turn impositions, select the single side.

   For details, see the Prinergy Workshop online help.

4. From the **Output** menu, select the process plan you created for thermal bluelines.

   Prinergy produces a TIFF file for each surface in the signature, and then places the TIFF files in the Print Console folder you specified in the thermal blueline process plan.

   The TIFF files display in the pending queue in Print Console.

5. In Print Console, group the two TIFF files (for surface A and B) together into one job, and approve the job for processing.

   Print Console sends the TIFF files to the output device for imaging on thermal blueline media.

   For details, see the Print Console online help.

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

Common Questions and Answers

The table below lists some common questions and answers about thermal bluelines.

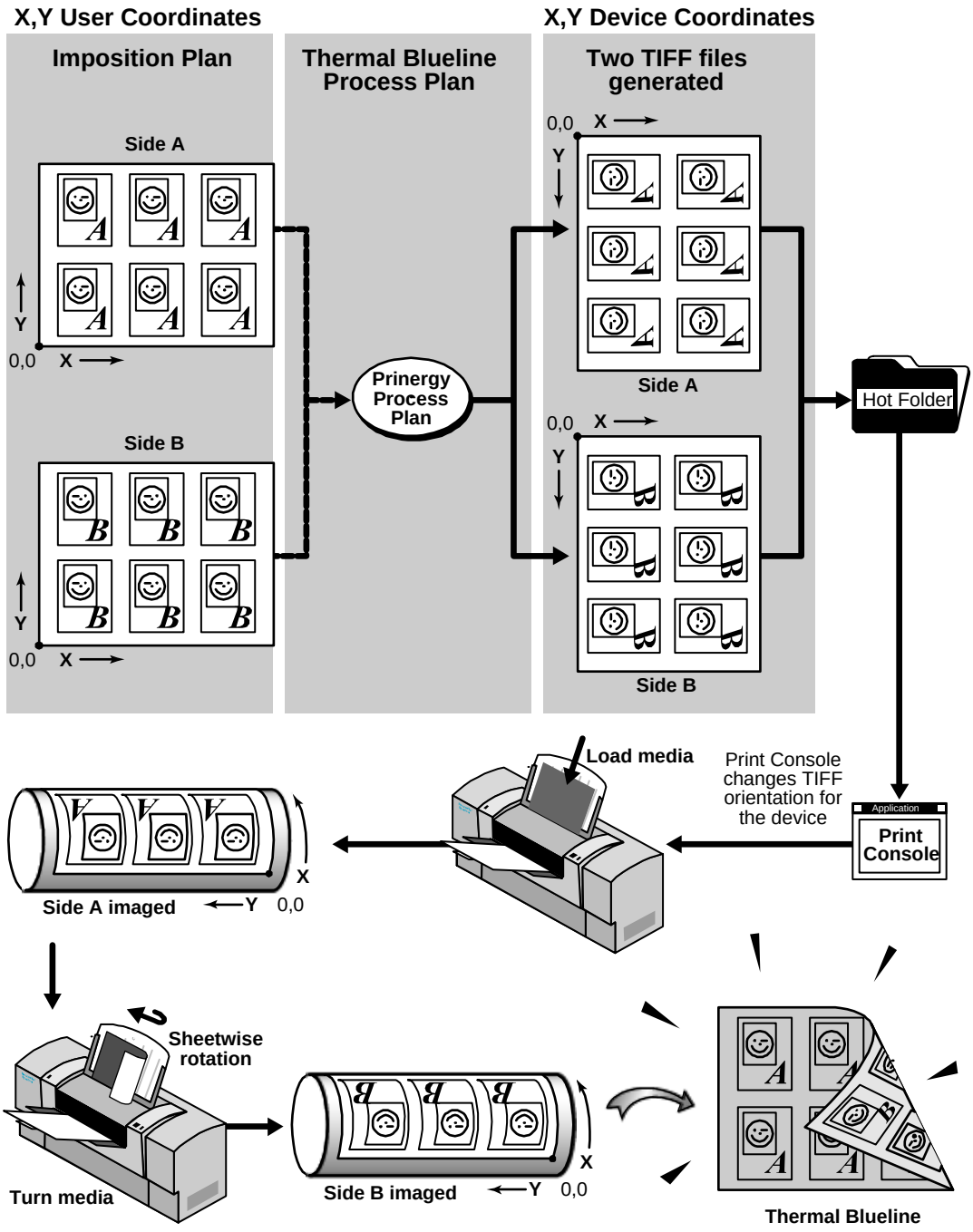
Questions	Answers
On the device, do I tumble the media—that is, flip the media to the bottom—if my imposition is set up as perfector or work and tumble?	No. On the Trendsetter, you only turn the thermal blueline media—that is, sheetwise rotate the media. (The reason you turn the media is the Trendsetter detects the second edge at the end of side one to ensure side two is in the correct position. For details, see the Print Console online help.) Because you turn the media on the device and never tumble it, Prinergy renders TIFF files so that the imposition backs up when you turn the media.
If I have a single-surface imposition, for example, a work and turn or a work and tumble imposition, do I need to duplicate the TIFF file generated by Prinergy to create a TIFF file for the second side of the thermal blueline?	No. Prinergy automatically creates a second TIFF file for the second side of the imposition.
Will my imposition be centered on the thermal blueline media?	Yes. The imposition will be centered on the thermal blueline media if the imposition is smaller, larger, or the same size as the thermal blueline media.

Why is the Duplexing Option Set to Tumble Instead of Turn?

In Prinergy, when you create a process plan for thermal bluelines, you select **Tumble** for the **Duplexing** option in the **Layout** pane, instead of selecting **Turn**—see page 7. This process plan instructs Adobe Extreme in the Prinergy system how to render the PDF file of the imposition to produce TIFF files for Print Console and the Trendsetter.

When generating TIFF files, Adobe Extreme always interprets the small dimension of the data as the X axis and the long dimension as the Y axis. Because of this, the Prinergy process plan instructs Adobe Extreme to rotate the TIFF images for both imposition surfaces 90° (**Orientation** is set to **90**), so the X axis of the surfaces becomes the small dimension. It also instructs Adobe Extreme to tumble side B of the imposition (**Duplexing** is set to **Tumble**), so side B backs up with side A after you turn the media on the device.

In short, a tumble on a TIFF file is a turn on a Trendsetter. See an illustration of these concepts on page 13.



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