

Prinergy 2.0 Installation

Onsite Proofing Configuration

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1. INTRODUCTION

Prinergy can connect to a wide variety of proofing devices, including low-resolution B&W lasers, large-format color printers, and high-resolution contract proofers. Output devices can be driven by two types of Job Ticket Processors (JTPs):

- LoRes Render JTP (Proofing Device 256 MB JTP) for low resolution proofing up to 600 dpi
- HiRes Render JTP (Proofing Device 512MB JTP) for high resolution output to proofs, film, or plate.

The page format, resolution, and device classification determines the type of JTP to use. For information about device classifications, see the *Prinergy Output Device Connectivity Specification (#72-3291A).*

General procedure for connecting a workflow device

The following are the general workflow steps used to set up a proofing device within Prinergy.

1. Create a Proofing JTP for that printer.
2. Configure the printer to use the appropriate protocol.
3. Install the printer in Windows. If hot folders are used, ensure that the Prinergy server(s) can access the printer.
4. Create Prinergy Process Plans.
5. Make a Test Proof.
6. Measure and create the Harmony calibration curve for the device.
7. Make a Test Proof. Repeat proofing cycle as necessary.

This document covers steps 2, 3, and 4. It describes how to connect a proofer using Hewlett-Packard's Raster Transfer Language (HP-RTL), a native file format used on large format HP plotters. It will be spooled through a Windows NT/2000 printer. This is a typical procedure and can be adapted for your particular device.

Other related documents

Depending on what you need to do, check out these other Prinergy 2.0 installation procedures, available on the Technical Library:

Factory Installation (#72-3497A)

Onsite Server Integration (#72-3499A)

Onsite Client Installation (#72-3500A)

Installation Test (#72-3501)

2. COLLECTING PROOFING DEVICE INFORMATION

To connect a device to Prinergy, you will need some information about the device, since it will determine how you configure the Prinergy Process Plans in a later step. This information is in the Technical Library under Prinergy Proofing Connectivity.

Proofing Device Information

Front End RIP	There are various flavours of RIPs, hardware and software. The determining factors are memory and speed. Software RIPs have an advantage because they can be easily upgraded. File size and format determines how much memory is needed.
Native Device Resolution	To minimize moiré, the resolution of the raster data from Prinergy should match a native device resolution.
File Formats	Prinergy can output many file formats with different compression and encoding schemes. You must determine which is best suited for your printer.
Shades	You must determine if you will be sending screened or continuous tone (CT) data. CT file sizes are much larger and will require more memory to process. If you are sending CTs, screening will be done on the front end RIP and not in Prinergy.
Max Image Size	Maximum image size is usually smaller than the maximum media size and it's useful to avoid clipping the image/page.
Connectivity	Prinergy can send data to the proofer in these ways: • directly via Window's spooler in a native format • via Window's spooler to a Front End RIP • directly to a Front-End RIP • via Hot Folder to Front-End RIP. A network connection is preferred, however you can connect devices directly up to the parallel port.
Screening and Calibration	If you are sending CTs, screening will be done on the front end RIP and not in Prinergy.
Color Model	Does the device support spot colors?
Color Matching	Will ICC color profiles be used?

3. INSTALLING A WINDOWS PRINTER

Windows Printer Proofing devices that use a Windows spooler must be properly shared. If there's more than one device, we recommend that one server be designated to handle all the spooling. This makes for easier administration. This server can be any Windows server on the network; it does not necessarily have to be the Prinergy primary or secondary server.

Keep the following in mind when setting up proofing devices:

- Check the Prinergy Proofing Connectivity site in the Technical Library to see if your device is supported.
- Ensure you have the correct printer drivers for the proofing device. If you do not have the correct drivers, check the Prinergy Technical Library or obtain them from the device manufacturer.

- You will need to configure the protocols on the device. We recommend using TCP/IP protocol if the device supports it. Have a TCP/IP address ready before you start.

To install a Windows printer:

1. Ensure the device can be seen on the network. These devices can use AppleTalk, DLC and TCP\IP. The preferred method is to use TCP\IP:

   a. From the front control panel, configure TCP\IP and disable the other protocols. Most printers will automatically detect and switch between protocols but we recommend that you disable the used ones.

   b. Check the connectivity by **ping**ing the printer's IP address from the server.

2. From the **Start** menu, select **Settings>Printers**. The Printers window opens.
3. Double-click on the **Add Printer** icon. The Add Printer Wizard launches.
4. Click **Next**.
5. Select **Local Printer** and uncheck. Click on **Automatically Detect and Install my Plug and Play Printer** and click **Next**.
6. Select **Create a new port**. In the **Type** box, select **LPR Port** (Line Printer Spooler) and click **Next**. The Add LPR compatible Printer dialog box opens.
7. In the **Name or address of the server providing LPD** (Line Printer Daemon), type in the IP address and click **OK**.
8. Do one of the following:

   Select from the list of drivers that are shipped with Windows and click the **Next** button

   or

   If you have drivers from the device manufacturer, click **Have disk**. Type or browse to the driver's inf file and click **OK**. A new list of printers opens. Select a printer and click **Next**.

9. In the **Printer name** box, modify the name. This is the name displayed in the printer control panel. This name is usually fairly long and we recommended that you shorten the name, avoiding spaces. To prevent confusion, use the same name as you intend to use for the printer share.
10. Click **No** to the **Default Printer** query and click **Next**.
11. Select **Share as** and modify the printer's name to match the name you gave it earlier in step 9, click **Next**.
12. Fill in the **Location and Comment** box as desired. Click **Next**.
13. Click **Yes** to **Print Test Page** and click **Next**.
14. Click **Finish**. Windows will begin to copy files. A **Digital Signature not found** message box opens if the drivers are not signed by Microsoft. Click **Yes** to continue.

15. Once the files have been copied, the Test Page Confirmation dialog box opens. Click **OK**.

16. Confirm that the test page has printed.

4. CHANGING WINDOWS PRINTING PREFERENCES

You must define the size and orientation of the media for each printer. If your device supports more than one media size or orientation, you must create a printer profile for each combination. Make sure you name and share the printer with a descriptive name.

There are three places to change printing preferences:

- File menu in the Printer Control panel
- Printer Properties in the General tab
- Advanced tab under Printing Defaults

Make sure they are all set to the same preferences.

To change the printer's printing preferences:

1. From the **Start** menu, select **Settings>Printers**. The Printers window opens.
2. Right-click on the printer and select **Printing Preferences**. The Printer Preferences dialog box opens.
3. Select **Application Page Size>Paper Size**. Select the desired paper size. For example, select **ANSI E - 34 x 44 in**.
4. Select the desired **Paper Source**, for example, **36 in roll,** and click **OK**.
5. Right-click on the printer and select **Properties**. The Printer Properties dialog box opens.
6. In the **General** tab, click on **Printing Preferences**. A Printer Preference dialog box opens as in step 2.
7. Repeat the changes you made for that printer earlier in steps 3 and 4.
8. In the **Advanced** tab, click **Printing Defaults**. A Printer Preference dialog box opens as in step 2.
9. Repeat the changes you made for that printer earlier in steps 3 and 4.
10. Select the **General** tab and click on **Print Test Page**. The page will print on the media and with the preferences you have just defined.

5. CHANGING THE PRINT SPOOL DIRECTORY

The global default location for the spool files for all printers is **%SYSTEMROOT%\SYSTEM32\SPOOL\PRINTERS**. For Prinergy, we recommend that you change the default spooling directory and disable the printer notification.

There are two important reasons for this:

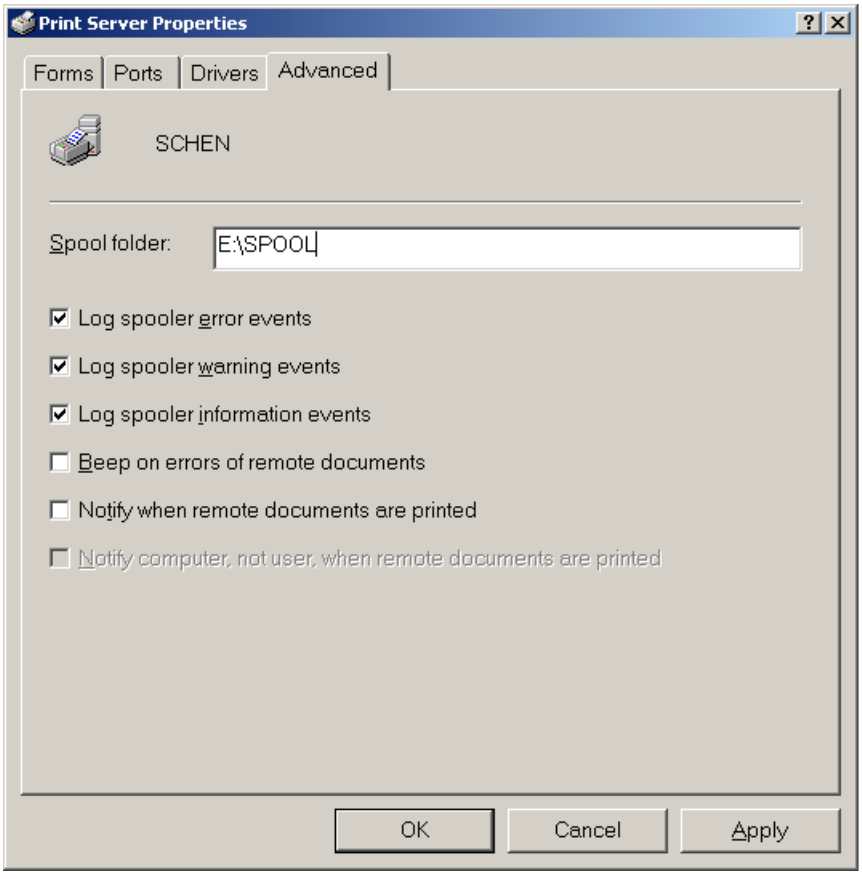
- The system drive may not be large enough to spool large jobs, especially if there is a lot of activity.
- This offloads disk activity on the system drive. You can use the **DATALOG** drive or the RAID for this purpose.

This next procedure defines a new global default location for all printers to place spool files.

To change the print spool directory:

1. From the **Start** menu, select **Settings>Printers**. The Printers window opens.
2. From the **File** menu, select **Server Properties**. The Print Server Properties dialog box opens.
3. Click the **Advanced** tab.
4. In the **Spool Folder** box, type the desired path—for example, **E:\Spool**.

   Specifying only the root directory (for example, **C:**) will result in an error message of `Server spool directory location is invalid`.
   Use **E:\<directory>**. This defines a new global default location for all printers to place spool files.



Printer Server Properties dialog box – Advanced tab

5. Uncheck the **Notify when remote documents are printed** box.

6. Click **OK**.

Note: You must restart the Print Spooler service for changes to take effect.

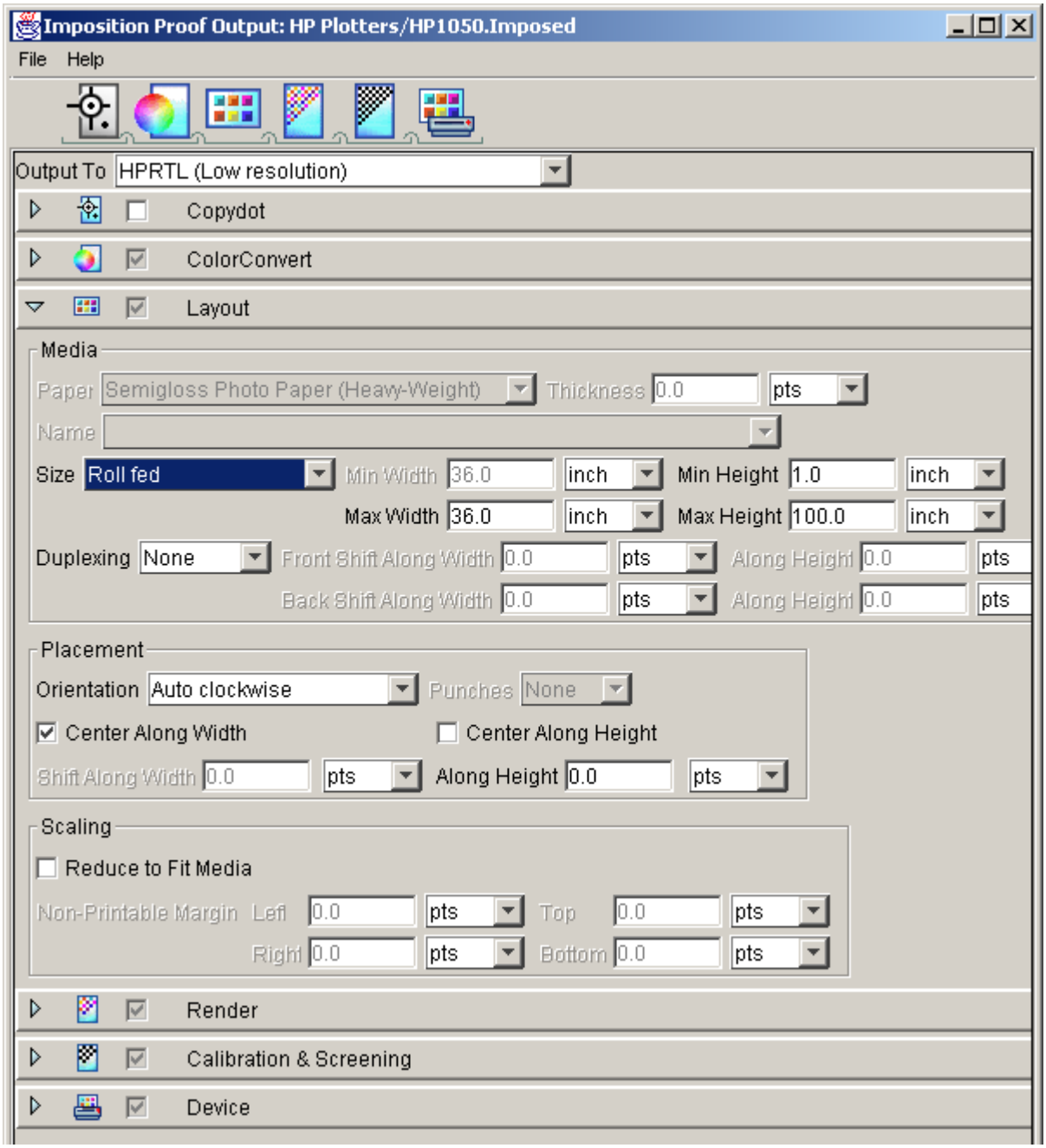
6. CREATING PRINERGY OUTPUT PROCESS PLANS

Prinergy includes a number of stock process plans. If the device you are connecting is one of the devices supported by these process plans, you can customize a process plan for your site.

The following is a general procedure for creating a process plan for an HP large-format plotter. Settings will vary depending on your device. Only the relevant section of the process plan will be described. For more details about the Process Plan Editor (PPED) and settings, see *Prinergy 2.0 Workshop online help*.

To create a Imposition Proof Output Process Plan:

1. Open the Process Plan Editor.
2. Browse to **Imposition Proof Output** and highlight **HP Plotters**.
3. From the **File** menu select **New Process Plan**.
4. In the **Output to** field, select **HPRTL** (Hewlett-Packard's Raster Transfer Language). This is a native file format for HP plotters.
5. Expand the **Layout** section. Change the following settings:
   a. in **Size**, select Roll Feed
   b. in **Min. Height**, type **1** inch
   c. in **Max. Width**, type **36** inch
   d. in **Max. Height**, type **100** inch
   e. in the **Placement** section, select **Center Along Width**.



Sample Output Process Plan – Layout section

6. Expand the **Render** section. Change the following settings:

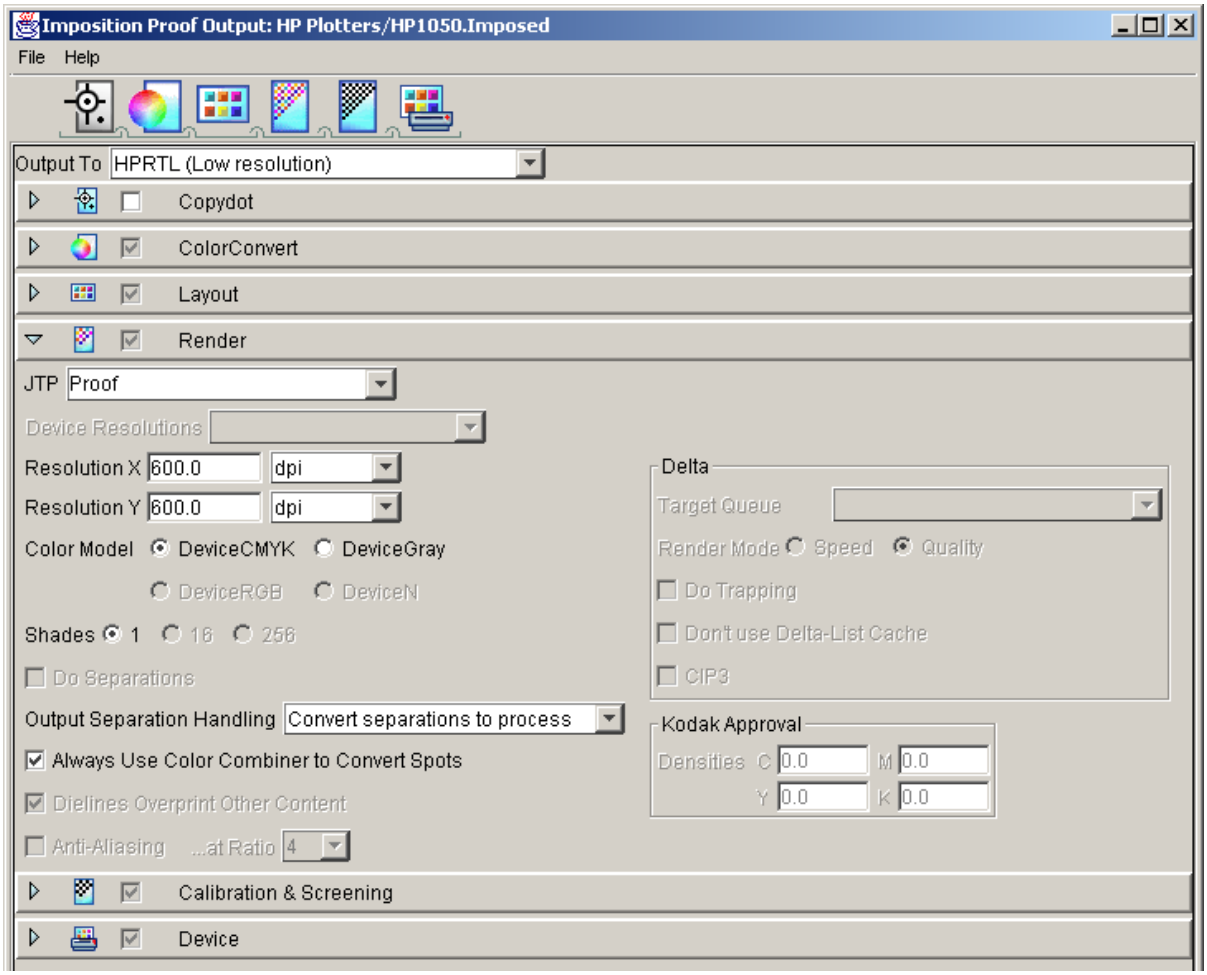
   a. In **JTP**, either select the Proofing JTP explicitly or select the JTP Pool. If you are using a 512MB JTP, you will most likely select it explicitly because it's seldom in a JTP pool. The default process plans always use the pool. Modify as desired.

   b. In **Resolution X & Y**, enter the device's native resolution. For HP 2500, it's **600 dpi**.

   c. In **Color Model**, select **DeviceCMYK**.

   d. In **Output Separation Handling**, select **Convert separations to process**

e. Enable **Always Use Color Combiner to Convert Spots**



Sample Output Process Plan – Render section

7. Expand the **Calibration and Screening** section. Change the following settings:

   a. In Calibration Curve, select %%None%%

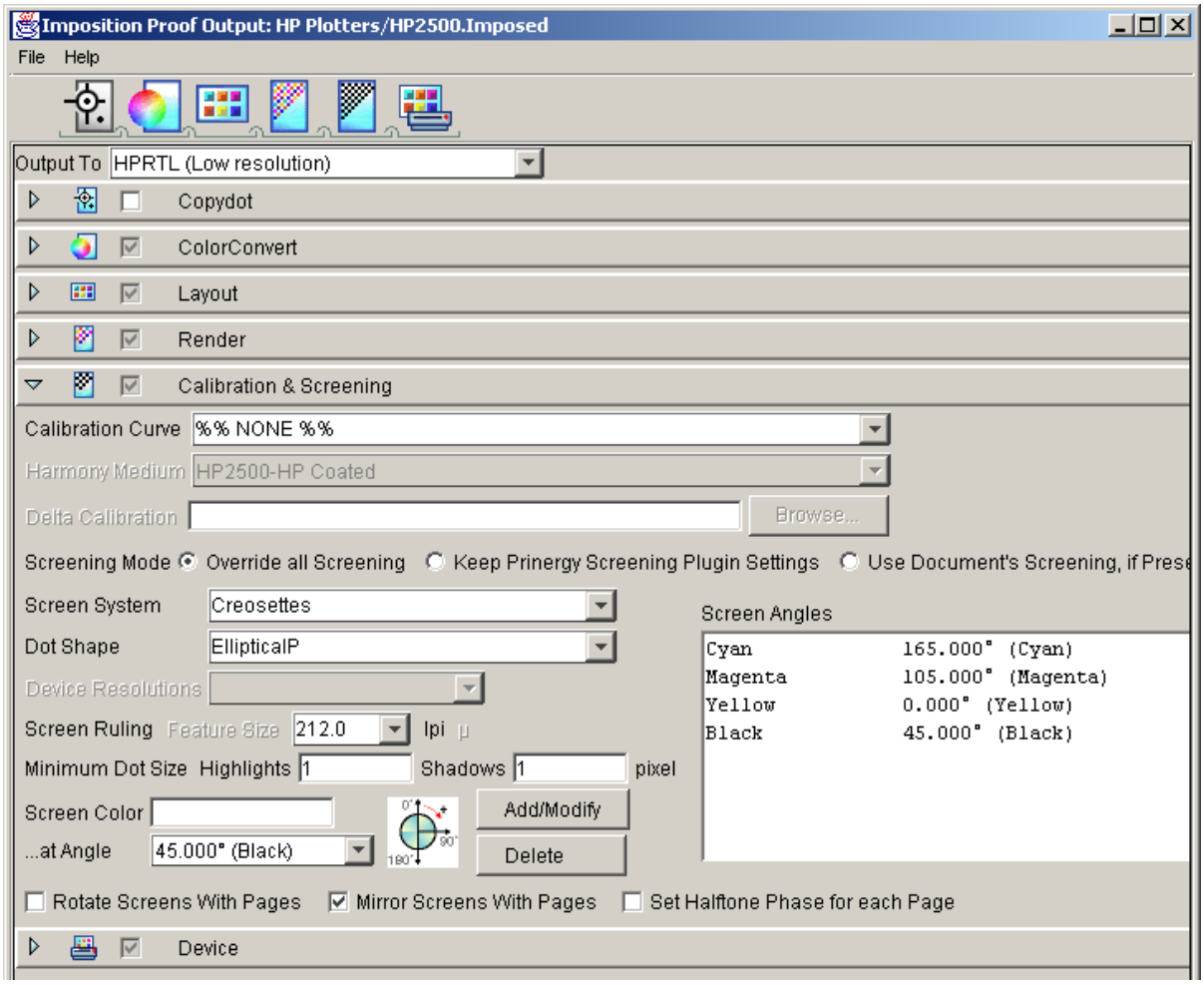
   b. In Screening mode, select Override all Screening

   c. In Screening System, select Creosettes

   d. In Dot Shape, select EllipticalIP

   e. In Screen Ruling, Select 212 lpi

   f. Enable Mirror Screens with Pages



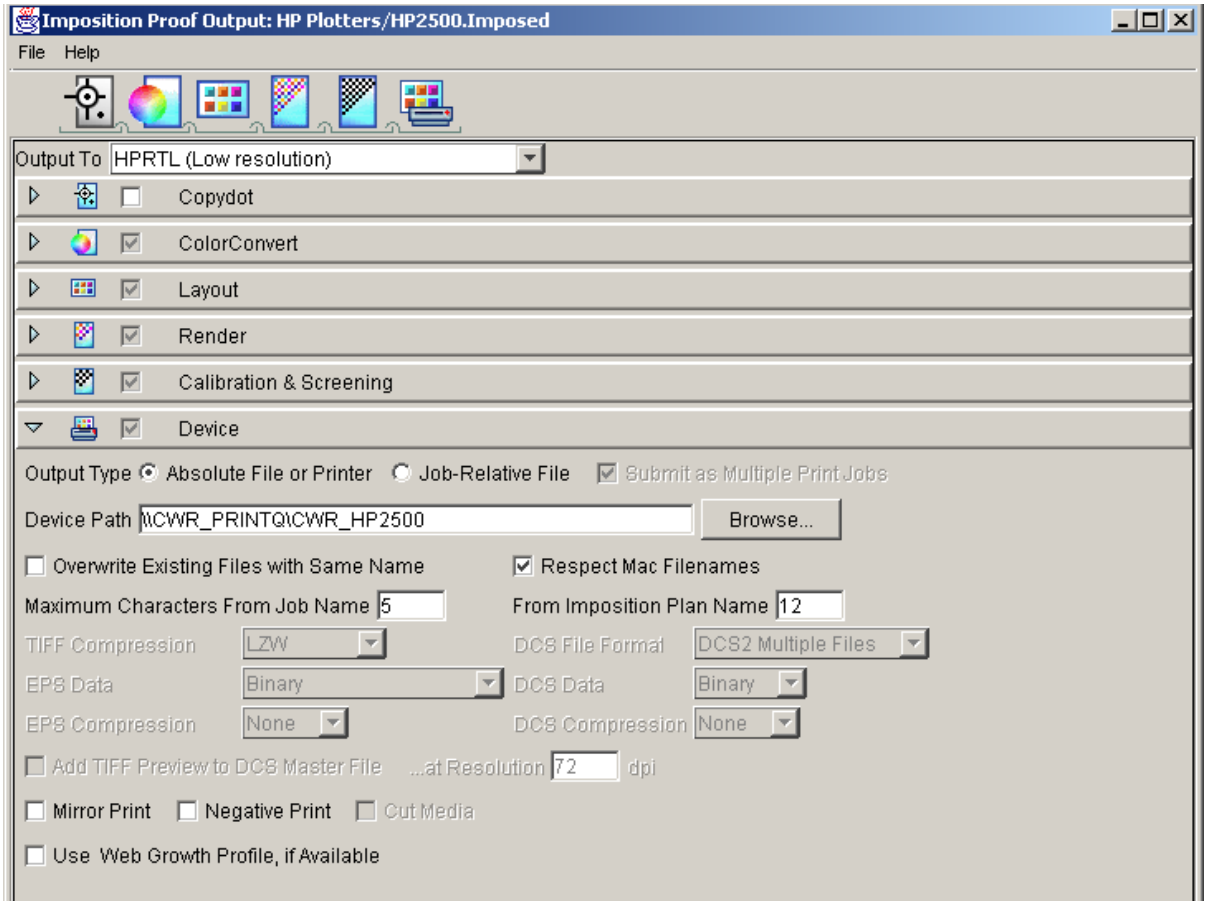
Sample Output Process Plan –Calibration and Screening section

8. Expand the **Device** section. Change the following settings

   a. In Output Type, select Absolute File or Printer

   b. In the **Device Path**, type the UNC path for the printer share:
   \\<servername>\<printershare>

   c. Enable **Respect Mac Filenames**.



Sample Output Process Plan – Device section

7. CONFIGURING OUTPUT TO A HOT FOLDER

In the Device section of the output process plan, you can specify the output destination by entering a UNC path to a folder. This can an input folder (a hot folder) to a front end RIP.

There are some requirements that must be met:

- Prinergy server must be able to access this share
- Prinergy must have administrative privileges on the receiving server. It must have the Araxi service account.

For more information about the ARAXI service account, see the *Prinergy 2.0 System Administration Guide (#03-4116C-A)*, Chapter 3, Configuring and Managing Prinergy.