

RIPMate

Extensions

User Manual

AG50603 Revision 2



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The imagesetters mentioned in this manual have been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

The equipment is supplied with a shielded cable. It must be operated with a shielded cable in order to meet FCC Class A emission limits.

The equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of the equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his or her own expense.

AG50603 Rev. 2

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Chapter 1

Introduction

Several WorkMates extensions (add-on options) are available for RIPMate. Each of them adds special functions that will improve the quality of your prints and/or make your work easier and more efficient. This chapter provides an overview of the options that are available and explains how to activate the various options.

Note: This manual deals with the WorkMates extensions available for RIPMate. Refer to the *ECRM RIPMate User Guide* for information on the Harlequin add-on options.

Chapter 1 • Introduction

RIPMate WorkMates options overview

RIPMate WorkMates options overview

This section offers a brief description of the WorkMates extensions available for RIPMate.

Related topics:

- “Your RIPMate security code” on page 7
- “Enabling options” on page 8
- “Adding WorkMates options” on page 8.

Extended Workflow

The Extended Workflow option adds RipSpool, a dedicated input plug-in providing extra support for larger, multi-user installations. For more details see *Chapter 2 • Extended Workflow*.

InRIP OPI Manager

Enables you to work faster on your workstations by providing low-resolution versions of large image files, which would otherwise take up extra disk space and slow down your workstation and network. The OPI utilizes an image shrinker and an OPI filter. The image shrinker creates low-res versions of incoming high-res images. You can then design layouts using the low-res images at your workstation. When you send the job to the RIP for output, the OPI filter locates the originals and replaces the low-res images with their high-res versions. For more details see *Chapter 3 • InRIP OPI Manager*.

ProofMate

The ProofMate proofing option lets you use any low- or high-end printer or plotter as a proofing device with RIPMate in front. You can even connect several proofers/printers to the same RIPMate on one license. The only thing you need is a standard Windows printer driver. With ProofMate, any of thousands of printers can be used for proofing at the cost of just one printer driver. ProofMate allows simultaneous output to a proofer and to any other output device, such as an imagesetter. While you are sending one job to the proofer, you can be sending another job to the imagesetter, thus greatly improving your output productivity. Proof-

Mate makes use of industry-standard ICC profiles to provide precise color reproduction and final press color emulation. For more details see *Chapter 4 • InRIP ProofMate System*.

CIPMate CIP3 Support

CIP3 files are used to link printing and post-printing processes closer to the pre-press phase. With the CIPMate option, RIPMate generates CIP3 files on the fly as the imagesetter is driven, using exactly the same screened data. This means that the PostScript job only has to be processed once, compared with systems that use a separate output driver for CIP3. Thus, only half as much time is required, and the cost and inconvenience of maintaining a duplicate CIP3 setup for each imagesetter setup is avoided. For more details see *Chapter 5 • CIPMate CIP3 Output*.

Your RIPMate security code

If you choose to purchase a new WorkMates option for RIPMate after your initial purchase of RIPMate, you will be asked to supply your RIPMate security code when you order the option. This code is used when generating the license code that will enable your new option.

The security code for your copy of RIPMate is hard-wired into your RIPMate dongle. Please note that the number printed on the dongle itself and marked as *serial number* is the dongle hardware serial number and *not* the same as the RIPMate security code.

While RIPMate is starting up, it reports the security code in the RIPMate main window. If you order additional options after your initial purchase of RIPMate, your ECRM dealer will ask you what your RIPMate security code is. To find it, start up RIPMate and watch the RIPMate main window for the code.

You can also read the security code in the ECRM License setup.

Chapter 1 • Introduction

Enabling options

Enabling options

All of the options available for extending RIPMate are shipped on the WorkMates CD and installed when you install the software. However, some options must be installed separately. To activate one or more of the options, you must enter a key number, which is supplied to you by your ECRM dealer.

The procedure for enabling each option varies slightly, as summarized in Table 1.1.

RIPMate WorkMates Option	Enabling Procedure
ProofMate Color Proofing System	Enter the key number as described in “Adding WorkMates options” on page 8.
CIPMate CIP3 File Support	Enter the key number as described in “Adding WorkMates options” on page 8.

Table 1.1 Enabling methods for RIPMate WorkMates options

Each key number activates a specific RIPMate WorkMates option and is tied to the unique security code assigned to your copy of RIPMate.

Please contact your ECRM dealer for details of pricing on each option or bundle of options.

Adding WorkMates options

ECRM has developed several WorkMates options that build on top of the standard RIP and options developed by Harlequin. The WorkMates options are designed to improve your results and make your workflow faster and easier.

You can add the WorkMates options using ECRM "License Setup," described below.

LICENSE SETUP

If you do not use RipManager or DotManager to control your imagesetter you can add the license codes for the WorkMates options in the License Setup program, which is installed with RIPMate.

If you have purchased WorkMates options, ECRM will send you a set of software licenses, which you must enter into the License Setup program to enable each feature.

The license codes are tied to the unique security code assigned to your copy of RIP-Mate.

To add one or more of these options in License Setup:

- 1 • Click Start>All Programs>ECRM WorkMates>Tools & Utilities>ECRM License Setup to start the "License Setup" program.

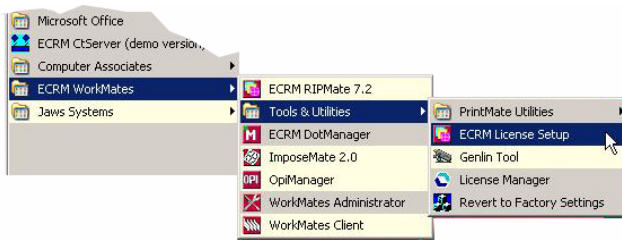


Figure 1.1 License Setup dialog

- 2 • The License Setup dialog opens.

This dialog contains registration fields and security information that are needed for the WorkMates options.

If you order WorkMates options, you will need to tell your ECRM dealer what the security code for your dongle is. This code is "Security Code" number displayed at the top of the dialog.

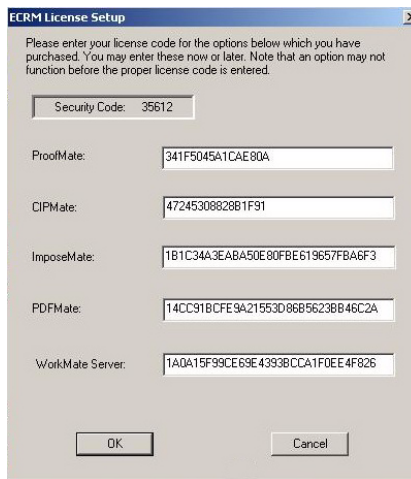


Figure 1.2 License Setup dialog

- 3 • Enter the license for each option you have purchased into the appropriately named field.

- 4 • Click OK.

The licenses are updated and the License Setup dialog closes.

Chapter 1 • Introduction

Enabling options

Chapter 2

Extended Workflow

The Extended Workflow option provides extra support for larger, multi-user installations. It adds RipSpool, a dedicated input plug-in. It can be used with any DotMate/DPX imagesetter but must be run under Windows 2000, Windows XP, or Windows Server 2003.

Chapter 2 • Extended Workflow

Enabling the Extended Workflow Option

Enabling the Extended Workflow Option

The Extended Workflow Option is included in ECRM RIPMate free of charge and no code is needed to activate the option.

RipSpool

RipSpool is an input plugin for RIPMate. It enables you to create a virtual printer on the network for each page setup you create in RIPMate. It has four major advantages over the other kinds of input plugins:

- It can communicate with both Mac and PC workstations.
- It can communicate with more than one workstation at a time.
- It stores jobs in a queue, thereby freeing the network and workstations more quickly.
- It is very easy to configure.

For these reasons, you should always use RipSpool for your input if you have the Extended Workflow option.

Setting up RipSpool input

For Windows 2000, or XP most of the considerations for setting up RipSpool with RIPMate are included in the RIPMate User Guide, with the exception of setting up the Configure RipSpool dialog (explained below.)

For Windows Server 2003, the following additional procedure applies that you need to perform before setting up a RipSpool printer:

- 1 • Choose Run from Windows' Start menu.
- 2 • In the dialog that opens, enter:
`gpedit.msc`

- 3 • Press Enter.
- 4 • In Computer Configuration > Administrative Templates > Printers, disable the “Disallow installation of printers using kernel-mode drivers“ option.
- 5 • Close the window. (It is not necessary to reboot.) Continue with setting up RipSpool.

The RipSpool Configuration dialog

Each type of input channel used by RIPMate is set up in the same way. The only visible difference between them appears when you click on the Configure button in the Input Channel Edit dialogs.

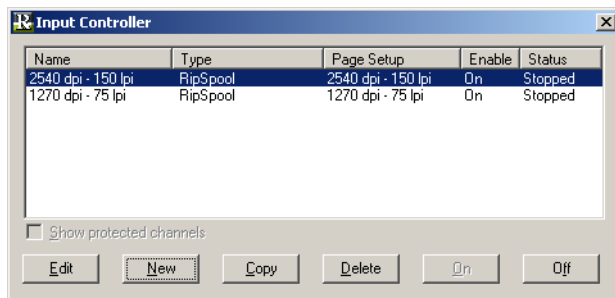


Figure 2.1 The Input Controller window

Chapter 2 • Extended Workflow

RipSpool

The Configure RipSpool dialog enables you to assign a DOS share name for the input and to enable other RIPMate options to use RipSpool.

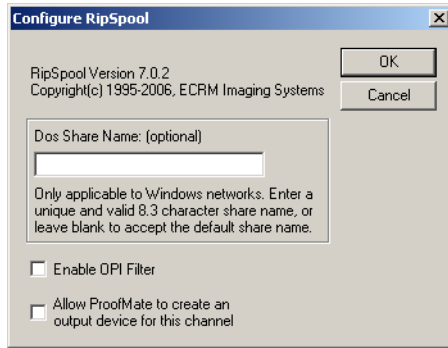


Figure 2.2 The Configure RipSpool dialog

The settings available in this window are explained below.

Dos Share Name

This name will appear on some PC workstations to identify the RipSpool input channel over the network. The setting is optional. To assign a DOS share name, simply enter a unique and valid 8.3 character share name in the space provided. If you leave the space blank, a default share name will be used.

Enable OPI Filter

If you are using the InRIP OPI Manager, the Configure RipSpool dialog will also have a check box for activating the OPI filter. See “InRIP OPI Manager” on page 15 for more information.

Allow ProofMate to create...

If you are using ProofMate, the Configure RipSpool dialog will also have a check box for allowing ProofMate to create an output device for the current input channel. See “InRIP ProofMate System” on page 31 for more information.

Chapter 3

InRIP OPI Manager

This chapter contains information about setting up and using the InRIP OPI Manager.

Overview

An OPI is a program that creates low-resolution versions of all supported images and other artwork and stores the high-resolution versions on a disk available to the RIP PC. (As a known limitation, network operation is not currently supported.) When the RIP receives a print job with low-res OPI images embedded in it, InRIP OPI Manager replaces the low-res image with the associated high-res image and then RIPs the job.

The OPI utilizes an *image shrinker* and an *PostScript filter*. The *image shrinker* creates low-res versions of incoming high-res images. When you send the job to the RIP for output, the *PostScript filter* locates the originals and replaces the low-res images with their high-res versions.

Chapter 3 • InRIP OPI Manager

The OPI folder structure

The advantage of this system is that the low-res versions take up less disk space on the workstation and are faster to work with in layout programs (especially on slower machines). Moreover, the low-res versions are faster to send across the network to the RIP.

Note that for InRip OPI Manager to work correctly, you must use an RipSpool input channel, as described in “RipSpool” on page 12. RipSpool is part of the RIPMate Extended Workflow option, which means that you must be using RIPMate Extended Workflow before you can add InRIP OPI Manager.

Once InRIP OPI Manager is installed, the image shrinker will always be running while the RIP PC is turned on, even when RIPMate is not running.

The image shrinker can operate on the following types of files:

- TIFF (6.0)
- EPS
- DCS (1 & 2)

The OPI folder structure

InRip OPI Manager is configured to watch a specific set of folders. These are called the input folders. The OPI maintains an output folder with two sets of folders: one for high-resolution images, the other for the low-resolution versions created by the OPI. Since each of these sets of folders (input, output, high-res, and low-res) can contain many sub-folders, each set is called a *tree*.

Each time a new subfolder is added under the input tree, it is automatically also created under the output trees for the high-resolution and low-resolution images. Each time you add an image into any subfolder in the input tree, that image is automatically moved into the corresponding subfolder in the output tree. Then a low-resolution version of the image is created and placed in the corresponding subfolder in the output tree. A simplified illustration of this process is given in *Figures 3.1 to 3.3*.

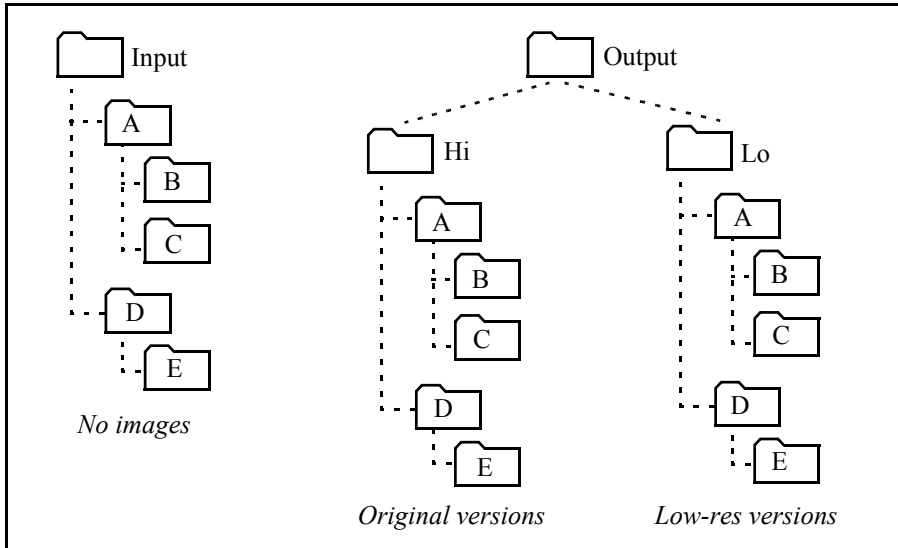


Figure 3.1 OPI is awaiting input

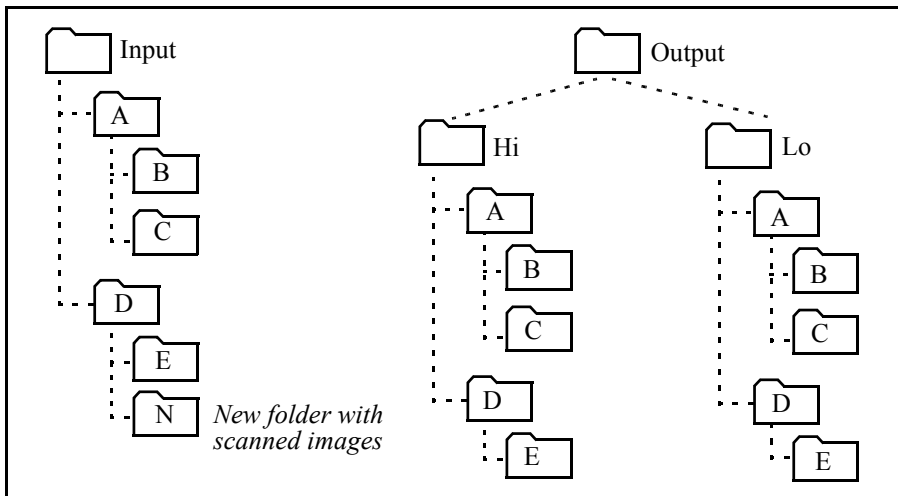


Figure 3.2 User creates a new folder and scans some images

Chapter 3 • InRIP OPI Manager

Enabling InRIP OPI Manager

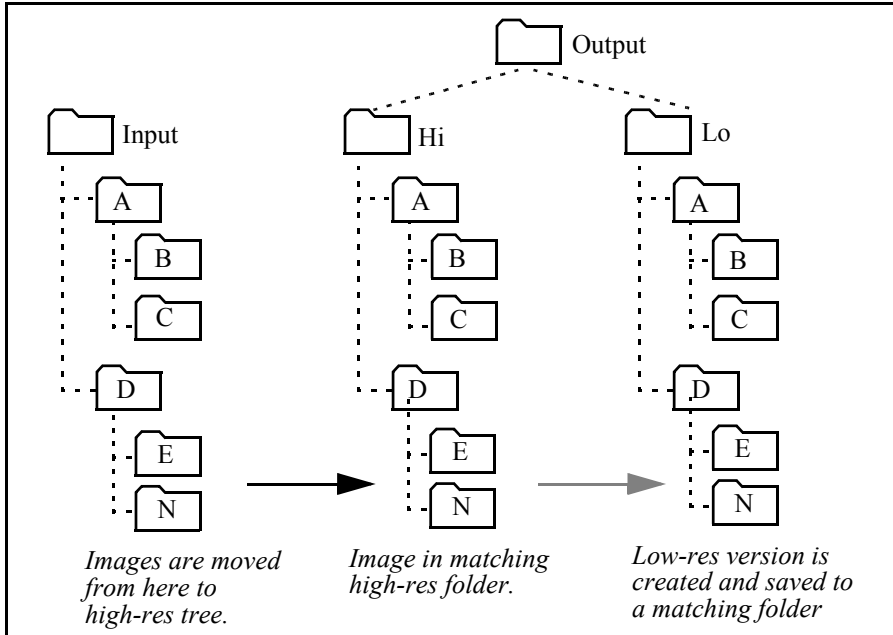


Figure 3.3 OPI mirrors the folder and creates low-res versions

Enabling InRIP OPI Manager

OPIManager is enabled in the ECRM RIP free of charge.

To begin you must configure RIPManager to use the OPI Manager. This configuration consists of two steps:

- 1 • Configure RipSpool to use the OPI filter by marking the Enable OPI Filter check box in the Configure RipSpool dialog. See “RipSpool” on page 12 for details.

For more information about selecting input plugins for page setups, see the *ECRM RIPManager User Guide*.

- 2 • Open the Page Setup window for the appropriate setup(s) and choose Enable OPI Filter from the drop-down list under the Enable Features check box (you must also mark this check box).

For more information about using the Page Setup window, see the *ECRM RIP-Mate User Guide*.

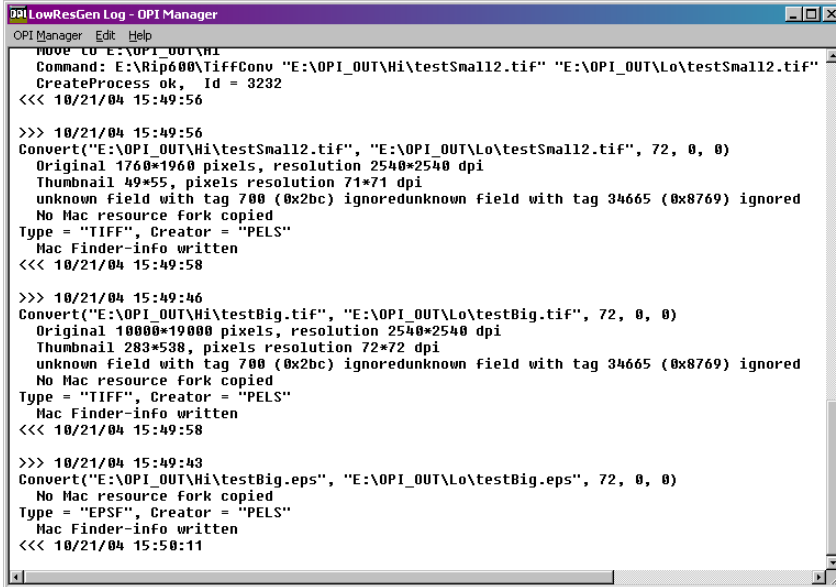
Note that the image shrinker is always running in the background. This means that you do not need to run RIPMate or have the Enable OPI Filter check box or page feature selected to use the image shrinker.

Configuring InRIP OPI Manager

To use the OPI, you must configure InRip OPI Manager to monitor a specific folder, or set of folders, for incoming high-resolution images and define output folders in which to save high-res and low-res images from each input. The InRip OPI Manager program is used for configuring these folders. While it is running, the OPI Manager window is visible on your screen.

Chapter 3 • InRIP OPI Manager

Configuring InRIP OPI Manager



```
OPI Manager Log - OPI Manager
OPI Manager  Edit  Help
MODE LO E:\OPI_OUT\HI
Command: E:\Rip600\TiffConv "E:\OPI_OUT\Hi\testSmall2.tif" "E:\OPI_OUT\Lo\testSmall2.tif"
CreateProcess ok, Id = 3232
<<< 10/21/04 15:49:56

>>> 10/21/04 15:49:56
Convert("E:\OPI_OUT\Hi\testSmall2.tif", "E:\OPI_OUT\Lo\testSmall2.tif", 72, 0, 0)
Original 1760*1960 pixels, resolution 2540*2540 dpi
Thumbnail 49*55, pixels resolution 71*71 dpi
unknown field with tag 700 (0x2bc) ignoredunknown field with tag 34665 (0x8769) ignored
No Mac resource fork copied
Type = "TIFF", Creator = "PELS"
Mac Finder-info written
<<< 10/21/04 15:49:58

>>> 10/21/04 15:49:46
Convert("E:\OPI_OUT\Hi\testBig.tif", "E:\OPI_OUT\Lo\testBig.tif", 72, 0, 0)
Original 10000*19000 pixels, resolution 2540*2540 dpi
Thumbnail 283*538, pixels resolution 72*72 dpi
unknown field with tag 700 (0x2bc) ignoredunknown field with tag 34665 (0x8769) ignored
No Mac resource fork copied
Type = "TIFF", Creator = "PELS"
Mac Finder-info written
<<< 10/21/04 15:49:58

>>> 10/21/04 15:49:43
Convert("E:\OPI_OUT\Hi\testBig.eps", "E:\OPI_OUT\Lo\testBig.eps", 72, 0, 0)
No Mac resource fork copied
Type = "EPSF", Creator = "PELS"
Mac Finder-info written
<<< 10/21/04 15:50:11
```

Figure 3.4 The OPI Manager window

The OPI Manager window shows a status report for the OPI. A log of all actions is kept by the OPI and displayed here.

If problems arise with the image shrinker, a log of OPI-related issues can be displayed using the Event Viewer of Windows:

- 1 • Choose the Event Viewer from the Start menu at Start > Programs > Administrative Tools > Event Viewer.
- 2 • Check for events related to FDLowResGen.

To configure the input and output folders, select Setup from the OPI Manager menu. The Setup dialog appears.

The Setup dialog has two tabs:

- Image Shrinker, which controls the behavior of the “shrinker”, which creates the low-res images. The dialog shows each of the watched input folders, and the destination folders for both high- and low-res images.
- PostScript Filter, which controls where the OPI will search for hi-res versions of images referenced in incoming print jobs. The dialog shows a list of folders in which the OPI will search.

Configuring input folders

Use the Image Shrinker tab of the Setup dialog to view and edit your input folders. InRip OPI manager will watch all listed folders, and all sub-folders of those listed, for incoming files and folders.

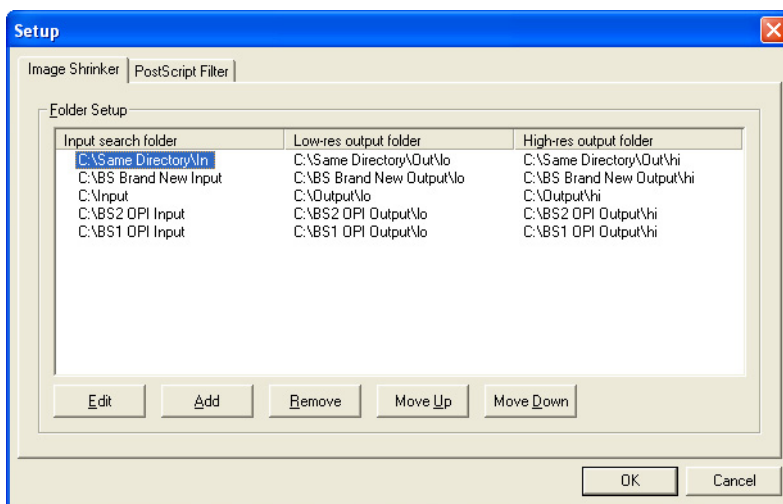


Figure 3.5 The Image Shrinker Setup dialog

Chapter 3 • InRIP OPI Manager

Configuring input folders

Defining input and output folders

To add new folders to the list, click on the Add button. The Edit Folder Entry dialog appears. Use it to define a folder to watch for input, and to define where the OPI will place the high- and low-res images when it is done. You can type the folder names directly in the fields, or use the Browse buttons to locate existing folders on your disk. If you type a path that does not already exist, the OPI Manager will create it.

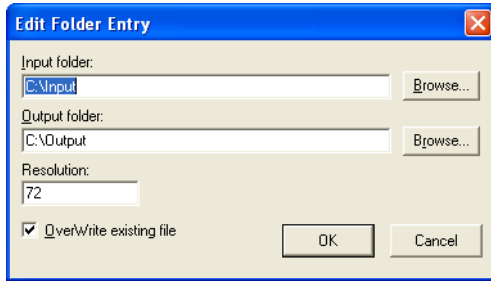


Figure 3.6 The Edit Folder Entry dialog for input folders

Note that the output folders *must not* be contained inside any of the watched folders, or a redundant loop will be created. The program will refuse your entry if you try to do this.

When you define a new input folder, you must always also define the output folder, which contains a high-res folder and a low-res folder. The high-res output folder that you specify is automatically added to the list of folders searched by the PostScript Filter when a print job with OPI references arrives at the RIP.

Several input folders can be configured to output to the same set of output folders.

To edit an input folder, click on the target folder and then click on the Edit button (or double-click on the target folder). The Edit Folder Entry dialog will appear, just as described above.

To remove an input folder, click on the target folder and then click the Remove button (or press the DELETE key.)

If you would like to rearrange the order of the list, click on a target input folder and use the Move Up and Move Down buttons. This will not affect the function of the OPI.

Output Preferences

The sizes of output files are controlled from the Edit Folder Entry dialog's Resolution field. Provided that the image will not violate the other output preferences settings, the image shrinker will create a low-res output image using the resolution specified in this field.

If a file name already exists

To adjust what happens if the OPI Manager encounters an identically named file in an output folder after processing an input image, use the Overwrite existing files check box in the Edit Folder Entry dialog. If checked existing files in the output folders will always be replaced by incoming images of the same name.

Configuring the PostScript filter

When a print job that includes OPI references arrives at the RIP, InRip OPI Manager searches for the high-res versions and replaces the low-res images. The OPI must be told where to look for the high-res images. To define the search folders, use the PostScript Filter tab of the OPI Manager Setup dialog. It is called a PostScript filter because it filters each incoming PostScript job looking for OPI images.

Chapter 3 • InRIP OPI Manager

Configuring the PostScript filter

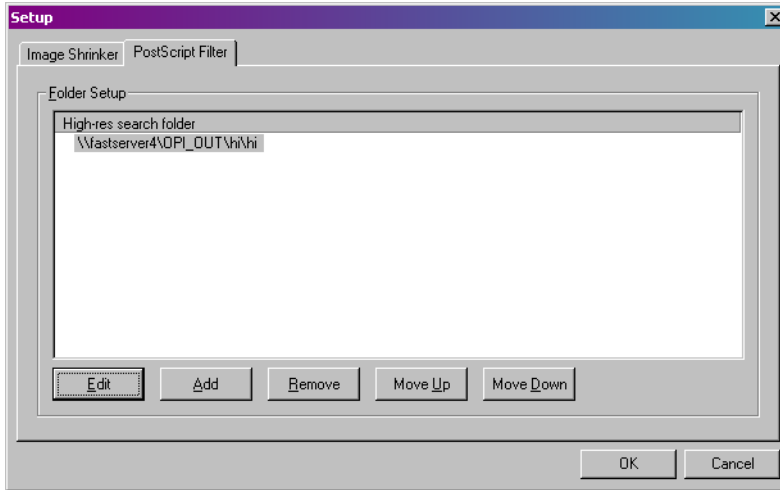


Figure 3.7 The PostScript Filter setup dialog

As mentioned above, each time you add an input folder in the Image Shrinker tab, the output folder defined for that input is added to the High-res Search list.

The folders will be searched in the order shown in the PostScript Filter Setup dialog. You can therefore increase the speed of the process by placing the most often used high-res folder first in the list. To move a folder up or down in the list, click once on a folder name and use the Move Up and Move Down buttons.

To remove a folder for the search list, click on the target folder and click on the Remove button (or press the DELETE key.) Note that you will not be permitted to remove a high-res folder that is configured as an output folder for any of the currently defined input folders from the Image Shrinker tab.

In some cases, you will want the OPI to search in folders that are not associated with any of the current input folders. For example, you may keep an image archive, or use another OPI from time to time. To add a new folder to the search list, click the Add button. The Edit Folder Entry dialog appears.

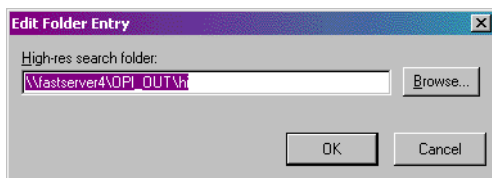


Figure 3.8 The Edit Folder Entry dialog for search folders

You can type the folder names directly in the input fields, or use the Browse buttons to locate existing folders on your disk. If you type a path that does not already exist, the OPI Manager will create it.

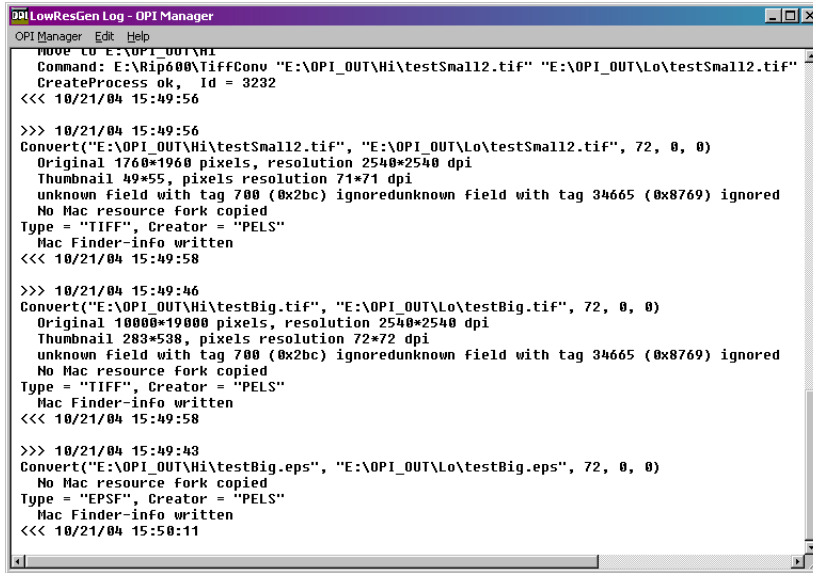
To edit a folder in the search list, click on the target folder and then click on the Edit button (or double-click on the target folder). The Edit Folder Entry dialog appears, as described above. Note that you will not be permitted to edit a high-res folder that is configured as an output folder for any of the currently defined input folders from the Image Shrinker tab. Also note, that you can use any folder available to your PC via the network.

Reading the OPI log

As mentioned above, the main OPI Manager window displays a message each time the OPI performs an action.

Chapter 3 • InRIP OPI Manager

Entering images into the OPI system



```
OPI Manager Edit Help
P:\OPI_OUT\Hi
Command: E:\Rip600\TiffConv "E:\OPI_OUT\Hi\testSmall2.tif" "E:\OPI_OUT\Lo\testSmall2.tif"
CreateProcess ok, Id = 3232
<<< 10/21/04 15:49:56

>>> 10/21/04 15:49:56
Convert("E:\OPI_OUT\Hi\testSmall2.tif", "E:\OPI_OUT\Lo\testSmall2.tif", 72, 0, 0)
Original 1760*1960 pixels, resolution 2540*2540 dpi
Thumbnail 49*55, pixels resolution 71*71 dpi
unknown field with tag 700 (0x2bc) ignoredunknown field with tag 34665 (0x8769) ignored
No Mac resource fork copied
Type = "TIFF", Creator = "PELS"
Mac Finder-info written
<<< 10/21/04 15:49:58

>>> 10/21/04 15:49:46
Convert("E:\OPI_OUT\Hi\testBig.tif", "E:\OPI_OUT\Lo\testBig.tif", 72, 0, 0)
Original 10000*19000 pixels, resolution 2540*2540 dpi
Thumbnail 283*538, pixels resolution 72*72 dpi
unknown field with tag 700 (0x2bc) ignoredunknown field with tag 34665 (0x8769) ignored
No Mac resource fork copied
Type = "TIFF", Creator = "PELS"
Mac Finder-info written
<<< 10/21/04 15:49:58

>>> 10/21/04 15:49:43
Convert("E:\OPI_OUT\Hi\testBig.eps", "E:\OPI_OUT\Lo\testBig.eps", 72, 0, 0)
No Mac resource fork copied
Type = "EPSF", Creator = "PELS"
Mac Finder-info written
<<< 10/21/04 15:50:11
```

Figure 3.9 The OPI Manager window

All actions are stored in a log file on your hard disk—the OPI Manager window displays this file.

After some time, most of the information in the log file will become out of date. You can erase all of the old entries by selecting Edit \hat{O} Clear Log.

Entering images into the OPI system

- 1 • Create a new image—for example by scanning.
- 2 • Inspect and edit the image until it is ready for print.

- 3 • If a suitable folder for the image does not exist, create one in one of the input directories monitored by InRip OPI Manager.
For example, each publication should have its own folder, so that the designers can find the image easily. Use the following techniques to make sure the OPI will be able to locate the original high-res image at print time:
 - Use unique names for each image file.
 - Use several sub-folders, so that the path to each image will be unique.

- 4 • Save the image in an appropriate folder.
InRip OPI Manager will find the image and move it to an identically named folder in the configured hi-res tree. It also creates a low-res version and saves it in an identically named folder in the low-res tree.

IMAGE FILE ERRORS

If the file contains an error, it will be moved to the high-res folder and remain there. In the low-res folder, a text file with an error message will be created.

Using OPI images in layout

When creating layouts that use images from the OPI system, designers should always import images from the low-res tree. For best results, do not move the low-res images out of their folders in the low-res tree. This will help make sure that:

- You are always using the low res images for highest performance during layout
- InRip OPI Manager can quickly and easily find the correct high-res images when it is time to print.

Printing jobs with OPI images

Most layout programs are prepared to create OPI output. They include an option somewhere in their Print dialog that allows you to “exclude images” or “omit

Chapter 3 • InRIP OPI Manager

Using OPI with Adobe PageMaker

images”. Sometimes, the setting is listed under a heading that mentions OPI. When you send a job containing low-res OPI images to print, be sure to use the exclude images setting. See the documentation for your layout software for complete instructions. It is not strictly necessary to omit images in order for the OPI to work, but performance will improve, and problems will be avoided if you do.

When you choose to exclude images in a print, your layout application adds a comment in its PostScript output that notes that an OPI image belongs there, and includes the file name of that image. When the PostScript Filter in InRip OPI Manager sees such a comment, it locates the high-res image and inserts it into the PostScript job.

As noted above, in order for InRip OPI Manager to search for your high-res images, you must use an RipSpool input channel, as described in “RipSpool” on page 12.

Using OPI with Adobe PageMaker

The default settings in Adobe PageMaker assume that you are printing to a local laser printer and that all OPI images contained in your document will be present on your machine. However, this is not the situation if you are working in a print house using an imagesetter and InRIP OPI Manager. Therefore, you must change the settings when you import EPS or DCS images, both of which contain comments that identify the OPI source. If you do not, your job may produce an *unexpected end of file* error when you try to print.

The first time you import a low-res OPI EPS graphic (as from Adobe Illustrator or Macromedia Freehand) or DCS (Desktop Color Separation) image into a job, use the following procedure:

- 1 • Mark the “Show Filter Preferences” check box in the “Place document” dialog. Then click “OK”.

Note that if you are using PageMaker 5.0 (instead of 6.0 or later), the Show Filter Preferences check box is not present. Instead, you must hold down the SHIFT key and then click on OK.

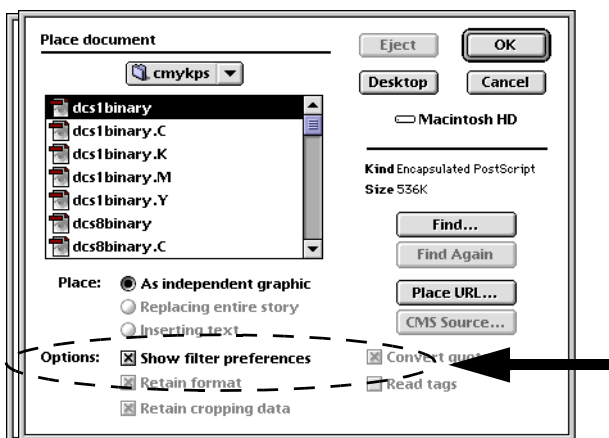


Figure 3.10 PageMaker's Place document dialog

- 2 • The EPS import filter dialog appears. Look at the “Read embedded OPI image links” check box. If it is marked, click on the check box to unmark it.

This causes PageMaker to ignore the OPI comments in the graphic for now. PageMaker will include the OPI comments directly in the output PostScript file, so that InRIP OPI Manager can find the correct images for final output.

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Using OPI with Adobe PageMaker

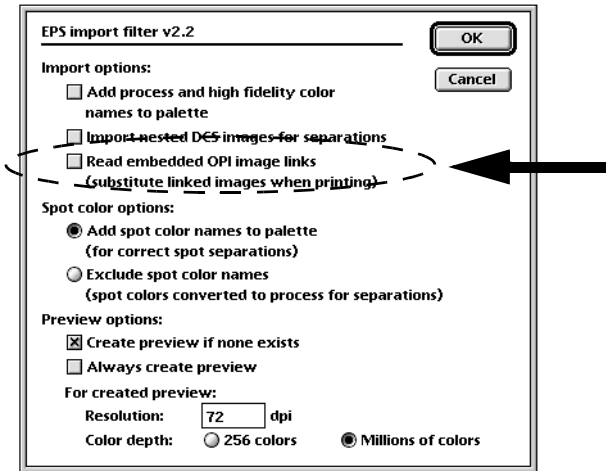


Figure 3.11 PageMaker's EPS import filter dialog

- 3 • Click on OK to import the image.

PageMaker should remember your EPS import filter settings from now on, but you should check the setting the next time you start working with PageMaker and each time you start working on a new job.

For more information about using PageMaker with an OPI, please see Adobe's World Wide Web site at <http://www.adobe.com>. If you do not have web access, please contact your Adobe dealer for more information about using OPI with PageMaker.

Chapter 4

InRIP ProofMate System

The ProofMate color proofing option lets you use any low- or high-end printer or plotter as a proofing device with RIPMate in front. You can even connect several proofers/printers to the same RIPMate on one license. The only thing you need is a standard Windows printer driver. With ProofMate, any of thousands of printers can be used for proofing for the cost of just one printer driver.

ProofMate allows simultaneous output to a proofer and to any other RIPMate output device, such as a DPX 4 imagesetter. While you are sending one job to the proofer, you can be sending another job to the imagesetter, thus greatly improving your output productivity.

ICC color management

ProofMate makes use of ICC color management profiles for precise color reproduction. The International Color Consortium, or ICC, has defined standards for describing the color characteristics, or color space, of color devices. ICC standards are used by the printing industry to describe printers, printing presses, plotters, scanners and inks. Other industries, such as the film and video industries, also use ICC color profiles for color management.

To use ProofMate's color management features, all you need is the ICC color profiles for the proofing device and for the press or printer that you want to emulate. You can get the profile for your printer from the manufacturer, or you can create the profile yourself using third-party software, printing a test page and measuring its colors.

Using ProofMate, you can define the color space of the PostScript job, the proofing device, the printing press, and any other device that you want to emulate. Precise color matching can be done on any color proofer with any desired result. For example, a proofer can be configured to show the colors that would result from printing a job on a specific printer, or to show the colors that would result from printing a proof on another well-known proofer or proof system.

It is possible to use Harlequin ColorPro with ProofMate to obtain ICC color management. See the *ColorMate User Guide*.

RIPMate is shipped with several default ICC profiles. These profiles are located in the ICC folder in the RIPMate root folder.

Creating ICC profiles for Windows

Most color printers are supplied with ICC profiles for different types of paper (matte, glossy and so on). These "standard" ICC profiles vary greatly in quality. For best results, ECRM recommends that you create your own profile for each type of paper that you will use with your proofer.

ProofMate works with standard Windows printer drivers, which work best with RGB ICC profiles. Therefore, when choosing third party products for creating ICC profiles, make sure the product can create an RGB profile.

Setting up ProofMate

Before setting up ProofMate, make sure that your proofing printer has been correctly installed. Starting with the printer itself, check any switches or settings that may affect the output. Next, from the Control Panel in Windows, open the Printers item and install a driver for the printer. Finally, check the properties and settings for the printer again to make sure they are correct.

Once the printer has been set up correctly, *avoid changing any of its settings*. RIP-Mate uses the settings in the Windows Control Panel, so if you change these, you may also have to change existing page setups.

Once you have activated the ProofMate option, you can set up color profiles for each of your printers. From the RIPMate menu, select Page Setup Manager. Click on New to create a new page setup, or select the page setup you want to edit and click on Edit. In the Edit Page Setup window, make sure that the output device is a printer, and click on Configure Device. For a color device, the window shown in Figure 4.1 will appear. For a monochrome (black and white) device, the window shown in Figure 4.2 will appear.

Proofing on a color device

The settings in the Configure ProofMate Color Device window are explained below.

Chapter 4 • InRIP ProofMate System

Setting up ProofMate

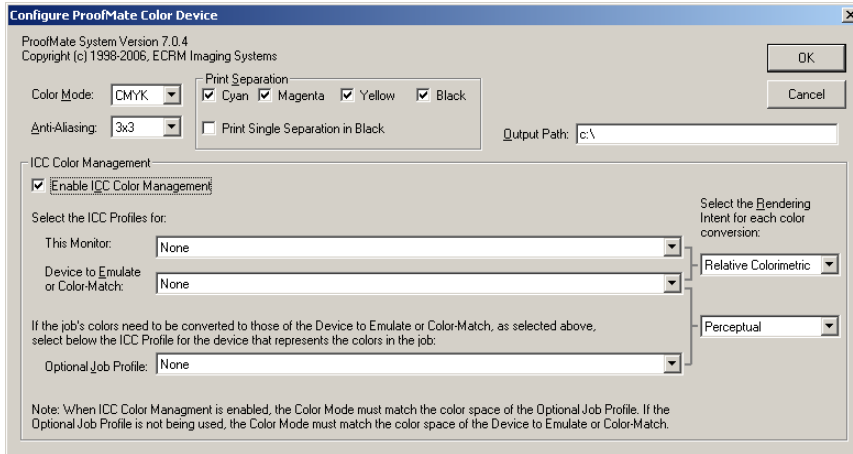


Figure 4.1 The Configure ProofMate Color Device window

Color Mode

This sets the color mode of the raw color data that the PostScript interpreter will generate from the incoming PostScript job.

If you are using ICC Color Management, this field must be set to the color mode of the ICC profile of the Device to Emulate or Color-Match, or to the color mode of the ICC profile of the incoming print job, if that is being used.

If you are not using ICC Color Management, it is relatively unimportant which color space is selected. Selecting RGB will produce slightly faster output.

Anti-Aliasing

Anti-aliasing is used to smooth the edges of graphic elements when printing on low-resolution printers. The larger the kernel size chosen (None, 2x2, 3x3, 4x4, 5x5 or 6x6), the greater the effect will be.

Print Separation

The check boxes under Print Separation let you create proofs with any desired combination of process colors—for example, progressive proofs for a one- or two-color press.

The colors selected can be modified in the Output Controller window after RIP-ing the job. This means that more than one type of proof can be produced without changing the page setup.

For example, to produce a cyan+magenta proof for the first pass on a two-color press, and then a four-color proof for the second pass, you could configure the page setup for the two-color proof, output it, and then manually select the remaining colors via the Output Controller window and output the proof again.

Print single separation in black

If only one process color is selected for the proof, this check box lets you print out a cyan, magenta or yellow separation in black, rather than colored, ink, which emulates the film output rather than the printed result.

ICC Color Management Setup

To use color management, you must specify a color profile both for your proofing printer and for the device you want to emulate (usually a printing press). It is also possible to specify a color profile for the incoming job, if the job was intended for another press or output system than the one you are using.

Enable ICC Color Management

This setting turns ICC color management on or off.

This proofer

In this field, you specify the ICC color profile of the proofing device you are going to use. Typically, this will be the profile of the proofing printer, but it can also, for example, be the profile of a monitor.

Device to emulate or color-match

In this field, you specify the ICC color profile of the press or device you want to emulate (typically, a printing press). This makes the proofing printer show you what the job will look like when you print it on the press. Alternatively, you can enter the ICC color profile of another, well-known proofing system. This will show you on your current proofing printer what the job would have looked like if you had printed it on the other proofing system.

Chapter 4 • InRIP ProofMate System

Setting up ProofMate

Optional job profile

This field is intended for expert users. If you are in doubt about it, set it to None. Optional Job Profile lets you specify the ICC color profile of the incoming job being sent to the RIP. This is only relevant if the job's profile is different from that of the emulated device—in other words, if the job was originally intended for another printing press or was created using a color space different from that of the current press—and if you use color management in your workflow for the press and normally require the job colors to be changed to the press colors.

Rendering intents

The rendering intents drop-down lists enable you to decide how colors will be changed when they are converted from one color space to another space that has a different gamut. The following options are available:

Absolute colorimetric

This style provides the closest possible simulation of a final print. Use this style to obtain the most accurate possible image of what your printing press can produce. With this style, all colors that are contained within the gamut of both the proofer and the printer are reproduced exactly. Colors outside the device gamut are mapped onto the closest point available in the gamut. This style also simulates the “white” paper color used by the press. Typically, the paper used by proofers is more white than that used on the final press, so when you use the *absolute colorimetric* style, ink will be applied to the white areas of the image (areas having all CMYK values equal to zero) to reproduce the paper color of the final press.

Relative colorimetric

Like the *absolute colorimetric* style, this style provides an accurate simulation of the press colors, mapping in-gamut colors directly when possible and choosing the closest in-gamut color for image colors that can not be reproduced on the press. However, this style does not simulate the “white” paper color used by the press. Areas where no ink will be applied by the press (the white areas) will also receive no ink on the proofer. The brightnesses (but not the hues) of all of the other colors in the image will be scaled to fit the slightly expanded gamut that results. This creates a more clean/brilliant proof, but will not be as accurate. You might choose to use this style if you

or your clients are bothered by the scattered colored dots that appear in the white areas when you use the *absolute colorimetric* style.

Perceptual

This style maps the entire device-independent color space onto the gamut of the printer by compressing the range of in-gamut colors to make room for out-of-gamut colors. This avoids the “clipping” of colors that results with the colorimetric styles because two colors that are different in the original will also provide a similar contrast in the output. However, this style will not generate an accurate proof print that reflects results attainable by an actual press. Use this style if you are creating a final print using the proofer (for example, a one-off poster print).

Saturation

This style is very similar to the *perceptual* style, except that the mapping used to match the original colors to the output colors is weighted to favor more color saturation. Your choice of using *perception* or *saturation* will depend on your preferences, your proofer and the types of prints you are making. As with the *perceptual* style use this style if you are creating a final print using the proofer (for example, a one-off poster print).

Proofing on a monochrome printer

Monochrome (black and white) printers are often used for imposition proofing, i.e., for checking that all the pages of the job are placed correctly. They are also useful for making sure that all fonts and images are present.

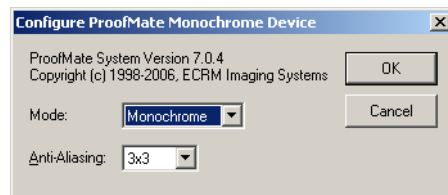


Figure 4.2 The Configure Monochrome Device window

Mode

Monochrome printers, such as standard black-and-white laser printers, can only print 1-bit color. This means that 8-bit gray scale data must be converted to 1-bit.

Chapter 4 • InRIP ProofMate System

Simple proofing using color management

The Mode setting determines whether the data is converted by the RIP or by the printer itself. Monochrome (1-bit) means that conversion takes place in the RIP. Gray (8-bit) means that conversion takes place in the printer.

Anti-Aliasing

Anti-aliasing is used to smooth the edges of graphic elements when printing on low resolution printers. The larger the kernel size chosen (None, 2x2, 3x3, 4x4, 5x5 or 6x6), the greater the effect will be.

The Anti-Aliasing setting has no effect if Mode is set to Monochrome.

Simple proofing using color management

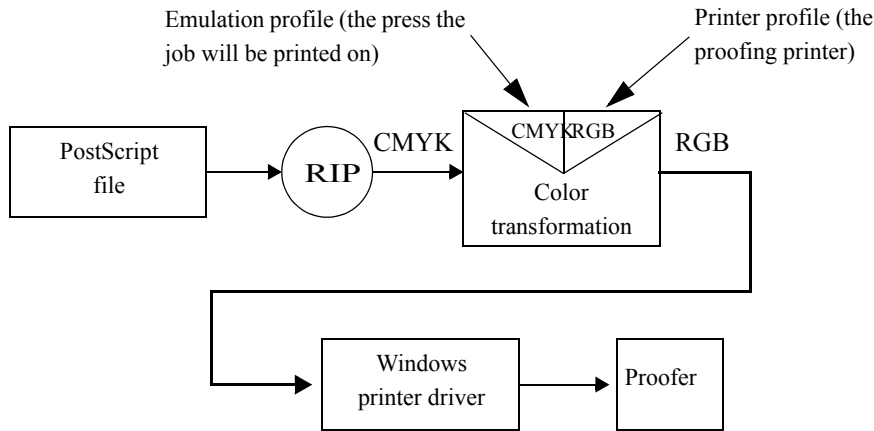


Figure 4.3 Using ICC Profiles for Proofing

Figure 4.3 shows how ICC profiles can be used to set up a printer for proofing. In the example, the job is a PostScript file. The emulation profile is the profile of the printing press, and the printer profile is the profile of the proofing printer.

Since the emulation profile uses CMYK colors, the RIP must be set to output CMYK. This is done with the Color Mode setting. The data are passed from the RIP through the emulation profile to the printer profile, where the color information is

changed from CMYK to RGB, and finally sent to the Windows printer driver for printing on the proofing printer.

In this example, the PostScript job was originally intended for the press specified in the emulation profile. In other words, the color space of the job was the same as that of the press, and it was therefore not necessary to specify a profile for the incoming job.

Proofing using the Optional Job Profile

In Figure 4.4, the incoming job was intended for another press or device than the current one, requiring that the color space of the incoming data be adjusted. This is done by specifying an Incoming Job Profile.

The data is first passed from the incoming job profile to the emulation profile, where the color data is adjusted so that the job will print correctly on the current press. Then, the data is passed from the emulation profile to the printer profile, where the color data is adjusted again so that the proofer prints what will be printed on the current press or device.

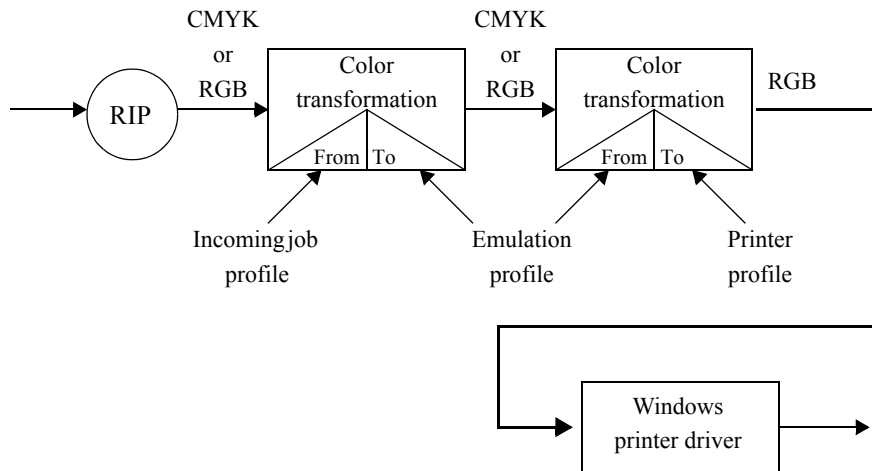


Figure 4.4 Adjusting color using the Incoming Job profile

Chapter 4 • InRIP ProofMate System

Sending output to a proof printer

Sending output to a proof printer

ProofMate makes all of the printers configured for Windows available through RIP-Mate . You can then use all of the standard RIPMate tools to configure the output to your proof printer and make the printer available over your network.

- 1 • Set up your proof printer using the standard Windows printer tools.
See “Setting up ProofMate” on page 33 for details.
- 2 • Create a page setup that uses your proof printer as its output device.
ProofMate creates a RIPMate output device for each printer configured using the standard Windows printer settings. Create a new page setup and select your proofer in the Device drop-down list in the Edit Page Setup dialog box. Make other page setup settings as required.
For complete instructions on how to create a page setup, see the *ECRM RIP-Mate User Guide*.
- 3 • Configure the ProofMate settings.
Click on the Configure Device button in the Edit Page Setup dialog box. See “Setting up ProofMate” on page 33 for more information about the available ProofMate settings.
- 4 • Create an input channel that uses the new page setup.
Create an input channel as usual, as described in the *ECRM RIPMate User Guide*. Note that if you are using RipSpool, which is included with the Extended Workflow option, then you must enable ProofMate in the Configure RipSpool dialog. See “RipSpool” on page 12 for instructions.
- 5 • To use the proofer, send a job to RIPMate as usual, choosing an input channel that you created using ProofMate.
You can create as many ProofMate inputs channels as you like, each using a different page setup.

Sending output to a TIFF file

In addition to creating physical proof prints, you can also use ProofMate to create color-calibrated TIFF files, which can be opened in any TIFF-reading application.

As with physical proofers, you can apply an ICC profile when you use the ProofMate TIFF output device. The profile you choose will be embedded in the TIFF file, which means that if you open it using an ICC-aware application, such as Adobe Photoshop, the colors shown on your screen will simulate those that will appear from the final press (or any other device you choose).

Unlike the standard TIFF output channel included with RIPMate, ProofMate automatically creates a new folder for each job sent to the ProofMate TIFF output device. This makes it much easier for users to locate their proofs on the server. When a user sends a job to ProofMate TIFF, ProofMate reads the PostScript header on the job and creates a new folder based on the file name of the job. This folder is placed inside a ProofMate folder, which is available to all users over the network. The properties of the image created depend on the settings for the page setup associated with the ProofMate TIFF output channel.

Setting up and using ProofMate TIFF output is just like using a physical proofer or an imagesetter. The only difference is that the Configure ProofMate Color Device window includes an extra field for choosing the folder in which to save the resulting TIFF file, as shown in Figure 4.5.

Chapter 4 • InRIP ProofMate System

Sending output to a TIFF file

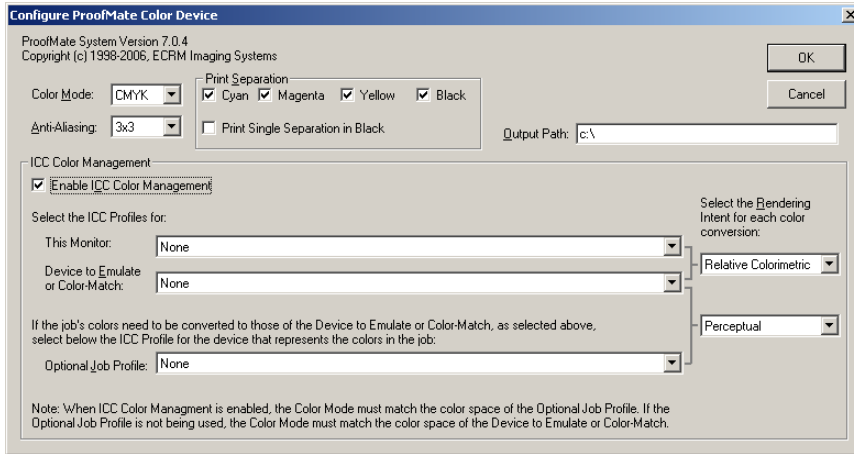


Figure 4.5 The Configure ProofMate Color Device window

To use ProofMate to create a TIFF file:

- 1 • Create a page setup that uses “Tiff ProofMate Device” as its output device.
ProofMate creates a new type of output device called ProofMate TIFF. To use it, create a new page setup and select it in the Device drop-down list in the Edit Page Setup dialog box. Make other page setup settings as required.
For complete instructions on how to create a page setup, see the *ECRM RIP-Mate User Guide*.
- 2 • Configure the ProofMate TIFF output device.
As with other kinds of output devices, you make settings for ProofMate TIFF by clicking on the Configure Device button in the Edit Page Setup dialog box. See “Setting up ProofMate” on page 33 for more information about the available ProofMate settings. Note that you must also specify an output folder in the Output Path field, which appears only when you are configuring a Tiff Proof-Mate Device, as shown in Figure 4.5.
- 3 • Create an input channel that uses the ProofMate TIFF page setup.
For complete instructions on how to set up an input channel, see the *ECRM RIPMate User Guide*.

- 4 • To use the proofer, send a job to RIPMate as usual, choosing an input channel that you created using the ProofMate TIFF output device.
You can create as many ProofMate TIFF inputs channels as you like, each using a different page setup.

- 5 • Once output is completed, open the TIFF file using any standard TIFF-reading application.
After the job has been through the RIP, a TIFF image, or a set of TIFF images, will be available in a folder stored inside the ProofMate folder on the RIP PC. The folder will be named after the file that was sent to ProofMate. Inside the job folder will be a TIFF image (or set of images) for each page in the job. If you are using ICC profiles for color management, then be sure to open the TIFF file with a program that can interpret the embedded profile, such as Adobe Photoshop.

Troubleshooting

PROBLEM: The error message No Printer ICC profile specified appears in the RIPMate window.

SOLUTION: An ICC profile must be specified in the This Proofer field and at least one of the other fields.

PROBLEM: The error message Incorrect Color-Match ICC profile. Color-Match profile is RGB, selected color space is CMYK appears in the RIPMate window.

SOLUTION: The Color Mode setting does not match the ICC profile selected in the Device to Emulate or Color-Match field.

PROBLEM: The output is clipped.

SOLUTION: If the output looks correct in RIPMate's Roam function but is clipped in the printer output, check that Paper Size is correctly set in the printer's Document Defaults dialogue.

Chapter 4 • InRIP ProofMate System

Troubleshooting

Chapter 5

CIPMate CIP3 Output

CIP3 and PPF

CIP3 is an international standards body that has defined the PPF (Print Production Format) file format. Files using this format are often called simply “CIP3 files.” They are used to link printing and post-printing processes closer to the prepress phase by combining standard PostScript with additional information, such as:

- Administrative data
- Image data for creating ink consumption profiles for the printing process
- Cutting and binding data for the post-printing process

Chapter 5 • CIPMate CIP3 Output

CIP3 support in RIPMate

CIP3 support in RIPMate

The WorkMates RIPMate option CIPMate is able to generate CIP3 files on the fly during output using exactly the same, screened data that it sends to the imagesetter. This means that the PostScript job only has to be processed once, thereby saving the time, cost and inconvenience of processing CIP3 separately, as many other systems require.

Using CIPMate in your workflow

The CIP3 files generated by RIPMate's CIPMate option contain image data and transfer curves that can be used by compatible press systems to calculate an ink consumption profile. The resulting files can be used by third-party software that either generates settings for the printing press or controls the printing press directly.

The CIPMate option cannot integrate CIP3 files generated by other systems into the output files. Such files must be transferred separately to the CIP3 software at the press.

Setting up CIPMate

To activate the CIPMate option, you must enter a key code as described in “Adding WorkMates options” in ECRM License Setup.

Once you have activated CIPMate, you can set CIP3 options for each DotMate/DPX output device driver or ECRM Tiff to Folder output.

- 1 • From the “RIPMate” menu, select “Page Setup Manager”.

NOTE: You must stop inputs before you can display the Page Setup Manager; if necessary, choose the RIPMate

Start Inputs menu option or click the tool bar button that shows a red arrow and traffic lights.

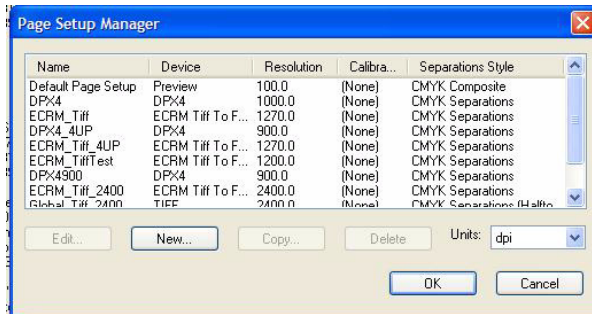


Figure 5.1 Page Setup Manager dialog box

- 2 • Select the page setup you want to edit and click on “Edit”.
- 3 • In the “Edit Page Setup” window, click on “Configure Device.” A configure device window will open.
The appearance of the window and the CIP3 configuration choices it offers will depend on the page setup. Here are two examples.

Example 1 - Page Setup for a DPX platesetter

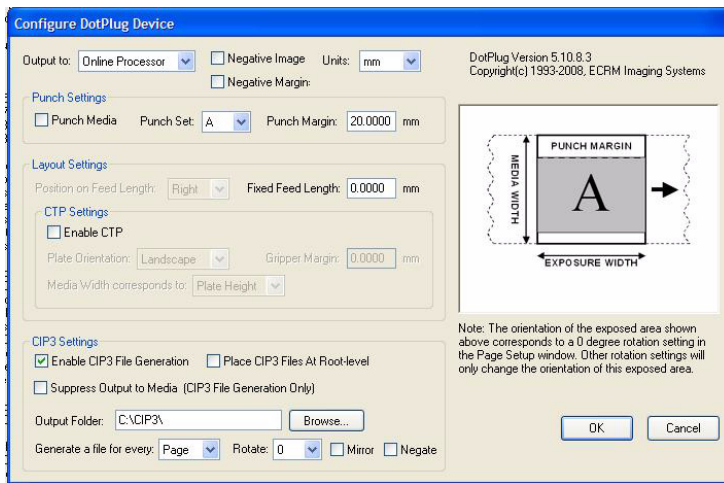


Figure 5.2 Configure Device window for DotMates

Chapter 5 • CIPMate CIP3 Output

Setting up CIPMate

- 4 • Mark the “Enable CIP3 File Generation” check box and make settings in the “CIP3 Settings” area as described below. (If you want to generate CIP3 files but not output them to media, mark the "Suppress Output to Media" check box.)
- 5 • Mark the "Place CIP3 Files At Root-level" check box if you want to place CIP3 files at level 1 (root level) only.
If you do not mark this option CIP3 files are placed as described in “Conventions for naming files and folders” on page 50 and illustrated in Figure 5.4 on page 51.

Output Folder

Use the Output Folder field to specify a name for the folder into which RIPMate will place the CIP3 files that it generates. The folder will be created automatically by RIPMate when needed if it does not already exist. If you like, you can use the Browse button to use a standard browse window to navigate and select a folder. See also “Conventions for naming files and folders” on page 50.

Generate a file for every:

Use the Generate a file for every drop-down list to choose what type of CIP3 files to generate. You have three options, which are described below and illustrated in Figure 5.4 on page 51.

- Select Color to create a separate file for each color on each page
- Select Page to create one file for each page, each of which will contain information on all the colors in that page
- Select Job to create a single file that contains color information for each color on each page

Rotate

Use this drop-down list to specify the rotation at which you plan to position the final film or plate on the press relative to its position as output by the imagesetter. Note that this setting does not affect the rotation of the job on the imagesetter; it only affects the data stored in the CIP3 file so that ink use will be computed correctly according to the way you plan to position the film or plate on your press.

Mirror

Mark this checkbox if your final image will be a mirror of the image generated by the image setter. Note that this setting does not affect the job sent to the imagemaker; it only affects the data stored in the CIP3 file so that ink use will be computed correctly according to the way you plan to create the film or plate on your press.

Negate

Mark this checkbox if your final image will be a negative of the image generated by the image setter. Note that this setting does not affect the job sent to the imagemaker; it only affects the data stored in the CIP3 file so that ink use will be computed correctly according to the way you plan to create the film or plate on your press.

Example 2 - ECRM Tiff - to - Folder Page Setup

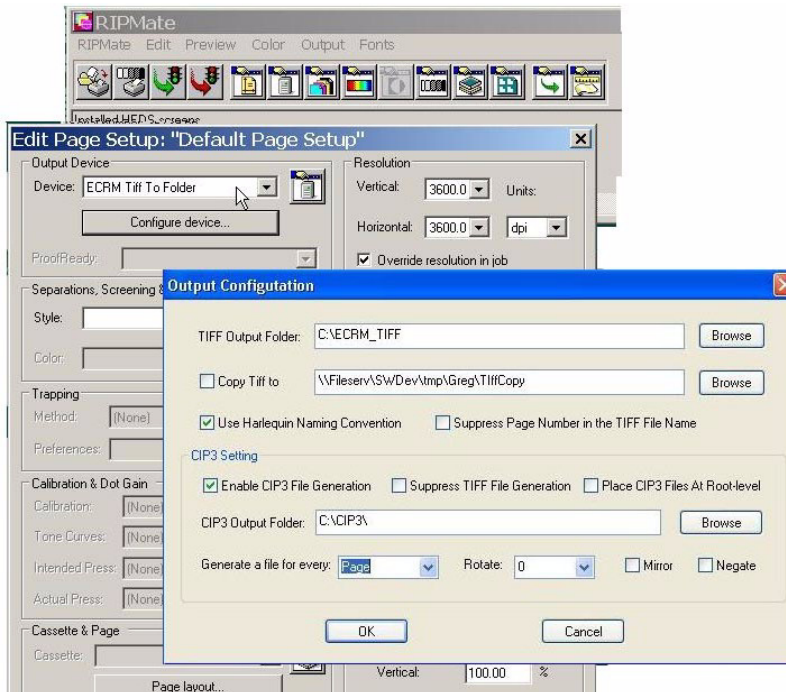


Figure 5.3 Configuration window for ECRM Tiff-to Folder

Chapter 5 • CIPMate CIP3 Output

Conventions for naming files and folders

Conventions for naming files and folders

Each time RIPMate outputs a job with CIPMate enabled, it creates a four-folder-deep hierarchy (if one does not already exist):

- *Level 1* is the output folder specified in the Output Folder field of the Configure Device dialogue.
- *Level 2* is a folder named after the current date, which makes it easy to track the CIP3 files created on a given day.
- *Level 3* is a folder named after the job.
- *Level 4* is a folder with a unique four-digit ID number for each job. Thus, if a job is output more than once on a given day (or if different jobs have the same name), each instance will receive a different ID number.

The individual CIP3 files are placed in the relevant ID folder. They are named according to the type of file selected in the Generate a file for every: drop-down list of the Configure Device dialogue:

- If Job is selected, the file name is the same as the job name.
- If Page is selected, the file name contains the page number and job name.
- If Color is selected, the file name contains the page number, job name and color (C, M, Y, K or the name of a spot color).

A sample file structure is shown in Figure 5.4, below.

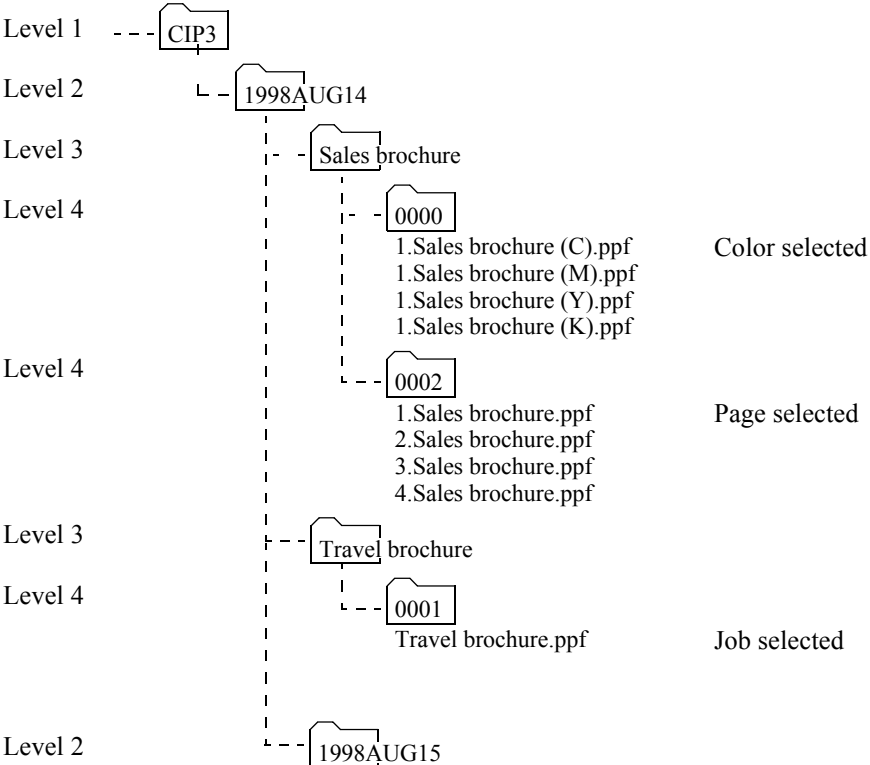


Figure 5.4 Folders and files created for CIP3 files

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Conventions for naming files and folders

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