

Imaging Engine - FlexRip 14

DCS

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Table of Contents

Table of Contents	<u>4</u>
1 Preface	<u>9</u>
1.1 Who is this guide aimed at?	9
1.2 What does this Manual contain?	9
<u>1.3 Conventions</u>	9
<u>1.3.1 Layout</u>	9
2 General introduction	<u>11</u>
3 Introduction to a FlexRip workflow	12
3.1 What is a FlexRip?	12
3.2 What kind of FlexRip flavors exist?	
3.3 What is a FlexRip/DCS?	<u>13</u>
3.4 FlexRip basics	
3.4.1 General PS and Esko native workflow	14
3.4.1.1 PostScript workflow	
3.4.1.2 Native workflow	<u>15</u>
3.4.2 Which file formats can be sent?	
3.4.3 Workflow description	<u>16</u>
3.5 Output file type	
3.6 What is a FlexRip Queue?	
4 Startup and shutdown of FlexRip	
4.1 Why and when?	22
4.2 How to start up a FlexRip?	
4.2.1 Start up the computer	
4.2.2 Starting up the Rip	
4.3 How to shut down a FlexRip?	
4.3.1 Stopping the Rip	
4.3.2 Shutting down the computer	
4.4 How to reboot the FlexRip computer?	
<u>5 An overview of programs on the</u>	
FlexRip	<u>25</u>
5.1 General	25
5.2 Which logon to use?	<u>26</u>
6 Dispatcher	27
6.1 General	<u>27</u>
<u>6.2 Rip menu</u>	
6.2.1 Clear History	
6.2.2 Send Jobs	<u>28</u>
6.2.3 Abort Job	29
6.2.4 Restart PS RIP	29
6.2.5 Exit	30
6.3 Options menu	

6.3.1 Program options	<u>30</u>
6.3.1.1 FlexRip Log Files	
6.3.1.2 Automation Engine Server Disk Mounting	31
6.3.1.3 Trace messages and History	31
6.3.1.4 Input Queue Settings	32
6.3.1.5 Advanced	32
6.3.2 Queue defaults	
6.3.3 Performance	33
6.3.4 Rip priority	
6.4 Tools menu	34
6.4.1 History View	34
6.4.2 Status Monitor	34
<u>6.5 Info menu</u>	
<u>6.5.1 Ports</u>	<u>35</u>
6.5.2 About Dispatcher	35
6.6 Connected monitors	35
6.7 Input queues	35
6.7.1 Possible queue types	
6.7.2 New - Queue Info - Delete	<u>36</u>
<u>6.7.2.1 General</u>	
6.7.2.2 File handling	40
7 Queue Settings	44
7.1 Priority of settings	44
7.2 Basic	
7.2.1 Output module	
7.2.2 Resolution	46
7.2.3 Rotation	46
7.2.4 Scale	46
7.2.5 Page size	47
7.2.6 Imaging options	
7.2.6.1 Image	47
7.2.6.2 Emulsion	47
7.2.6.3 Dot Shape	
7.3 Output	
7.3.1 Location & Name	
7.3.1.1 Output location	
7.3.1.2 Output file name	
7.3.1.3 Restricted file names	
7.3.2 Configuration set	<u>52</u>
<u>7.3.2.1 Name</u>	
7.3.3 Properties	
7.3.3.1 Single / Multiple file	
7.3.3.2 Compression algorithm	
7.3.3.3 Enable Anti-aliasing (unscreened only)	
7.3.4 Previews	
7.3.4.1 Placement only	53

7.3.4.2 Proofable preview	<u>53</u>
7.4 PS/PDF Input	54
7.4.1 PostScript	<u>54</u>
7.4.1.1 Screen type	<u>54</u>
7.4.1.2 Screen Swap Table	<u>56</u>
7.4.1.3 Pure black overprint	<u>56</u>
7.4.1.4 Enable optimization	56
7.4.1.5 Preserve Quark trapping	<u>57</u>
7.4.1.6 Ignore PS color management	57
7.4.2 PDF	
7.4.2.1 PDF password	<u>57</u>
7.4.2.2 Ignore calibrated color spaces	57
7.4.3 Images	<u>58</u>
7.4.3.1 Abort for images with scaled resolution below dpi	<u>58</u>
7.5 Native Input	<u>58</u>
7.5.1 Screening	<u>59</u>
7.5.2 Abort for images with scaled resolution below dpi	59
7.6 InkPlanner	60
7.7 Curve Pilot	60
7.7.1 Press dot gain compensation	61
7.7.2 Calibration	62
7.8 PS/PDF marks	62
7.8.1 Layout mode	63
7.8.2 Include	63
7.8.2.1 Color strip	63
7.8.2.2 Customer logo	<u>64</u>
7.8.2.3 Data legend	64
7.9 Screening	65
7.10 Debugging	<u>66</u>
7.11 Copydot Tuning	68
7.11.1 Background	
7.11.1.1 Performance & Memory Management	68
7.11.1.2 Copydot workflow	68
7.11.1.3 Copydot and paint modes	68
7.11.2 Queue Settings	69
7.11.2.1 Resample	71
<u>7.11.2.2 Abort</u>	<u>71</u>
7.11.2.3 Use Copydot preview (Unscreened only)	71
8 Status Monitor	<u>72</u>
8.1 General overview	72
8.2 Server menu	73
8.2.1 Connect to	73
8.2.2 Trace messages	74
9 History View	<u>75</u>
9.1 Log files: guidelines	78
10 Workflow: flavors and hints	80

10.1 Who decides: FlexRip or the operator?	<u>80</u>
10.2 What is best: AppleTalk or Hot Folders?	80
10.3 Emulsion: up or down, positive or negative?	
10.3.1 Print from DTP: Application print versus PPD settings	
10.3.2 On FlexRip: PostScript file versus Dispatcher – Queue Settings.	
10.4 What if you rip for more than one output device?	
11 Screening on FlexRip (screened only)	
12 Esko Curve Pilot: Esko's Dot Gain Compensation tool	
12.1 Terminology	
12.2 Basic explanation and general workflow	
12.3 Where are my SCR(DGC) files and Strategies?	86
12.4 Using old DGC files	
13 Data backup and customization	
14 Classic errors and their explanation	
14.1 Classic PostScript errors	
<u>14.1.1 Examples</u>	
14.1.2 Problem solving: 'capture' the PS file	<u>91</u>
14.2 Classic internal errors	
15 General troubleshooting	
15.1 Queue settings 'disappear'	
15.2 My input queue shows a 'fail' status	
15.3 The system disk is filling up	<u>96</u>
15.4 FlexRip rips my file over and over again	<u>96</u>
16 Frequently Asked Questions	<u>98</u>
16.1 FlexRip software version	<u>98</u>
16.2 Extra software on the FlexRip	<u>98</u>
16.3 FlexRip and output device controller on the same computer	<u>98</u>
16.4 Screensaver	<u>98</u>
16.5 Windows version	<u>99</u>
<u>16.6 Rebooting the FlexRip</u>	.100
16.7 FlexRip's computer name	.100
16.8 Info on the network address	.100
16.9 DCS files in PhotoShop	.100
16.10 Digital Cromalin/WaterProof settings	<u>.101</u>
16.11 Printing DCS files on a Digital Cromalin/WaterProof	.102
16.12 Changing extensions of external files	
17 Appendix	<u>.103</u>
17.1 Connection to DTP stations	.103
<u>17.1.1 How to share FlexRip volumes for a Macintosh (Microsoft</u>	
<u>Windows 2000 or 2003 Server)</u>	.103
17.1.2 How to share FlexRip volumes for a PC (Microsoft Windows 20	00
<u>Server)</u>	
17.1.3 How to share FlexRip volumes for a Macintosh or a PC (Micros	<u>oft</u>
Windows 2000)	.110
17.1.4 How to mount FlexRip volumes on a PC (Microsoft Windows	
2000)	.111

17.1.5 How to mount FlexRip volumes on a Macintos	<u>sh OS9 or older112</u>
17.1.6 How to mount FlexRip volumes on a Macintos	sh OSX or later112
<u>17.2 Merging</u>	<u></u> 112
17.3 What about OPI?	<u></u> 112
18 Glossary	114
INDEX	117

1 Preface

1.1 Who is this guide aimed at?

This manual introduces you to the FlexRip application. You will find all the necessary information you need to make you feel at ease working with FlexRip. It is meant to be equally helpful to first time users and skilled operators who might need a little extra assistance from time to time.

1.2 What does this Manual contain?

This FlexRip manual basically consists of the following parts:

- Introduction to a FlexRip/DCS workflow
- Startup and shutdown of a FlexRip
- General overview of programs on the FlexRip
- Dispatcher
- Queue Settings
- Status Monitor
- History View
- Workflow: flavors and hints
- Screening on FlexRip
- Esko Curve Pilot: Esko's Dot Gain Compensation tool
- Data backup and customization
- Classic errors and their explanation
- General troubleshooting
- Frequently Asked Questions
- Appendix

1.3 Conventions

1.3.1 Layout

For easy reference, we use the following conventions:

Each topic of a list will be preceded by a bullet.

Instructions of only one step, or instructions independent of the order of the steps, are also preceded by a bullet.

1. For instructions that consist of several steps to be performed in a strict order, we use numbered steps.

Preface

Note A note gives you important information.

Tip A tip gives you useful information.

Warning *A warning gives you information on how to avoid problems.*

Task indicates a reference to a task.

If a task is referred to in the See also-sections it is preceded by the words "How to..."

2 General introduction

This document is the user and training manual of a FlexRip/T4 and is intended for all operators. It explains a FlexRip workflow, the setup of possible configurations, describes its daily use and contains some basic troubleshooting. This document is currently available as PDF file or on-line help. A FlexRip comes with the Esko Suite 12 DVD that contains the following:

- 1. Software
- 2. User documentation on:
 - FlexRip/DCS (this document) (PDF file: Acrobat)
 - Esko Curve Pilot
 - Esko Screening
 - SambaFlex Screens

Warning

This document (and a FlexRip training in general) assumes that the operators of a FlexRip are at least comfortable with the basics of the Windows operating system. A daily user of FlexRip does not need detailed knowledge, but the system manager who controls the inhouse networking, installation and configuration of Windows does. This implies that he should have no problems reading our installation and update documentation, written in English. If this is not the case, Esko strongly advises the customer to have his system manager follow a Windows training program.

3 Introduction to a FlexRip workflow

3.1 What is a FlexRip?

- 1. A FlexRip is designed as a file RIP. There is no direct interfacing with non-Esko machines to ensure maximum connectivity, flexibility and performance.
- 2. FlexRip is a true Dual Channel RIP. It is equipped with an Esko native channel and an Adobe Certified PS/PDF channel to guarantee a fully open platform.
- 3. The FlexRip engine is Esko technology and a continuation of the FastRip technology. FlexRip has the same engine for all flavors.
- 4. FlexRip contains various output modules for different output device types (proofers, ImageSetters, PlateSetters), but only 1 kernel to guarantee a 100% consistency.
- 5. FlexRip comes standard with Esko Curve Pilot, the advanced calibration tool for film output, plate calibration and press compensation.
- 6. FlexRip is based on a very modular design, so different output flavors can be added at any time.

3.2 What kind of FlexRip flavors exist?

FlexRip is a modular product with different input channels and a variety of output flavors.

Input	RIP	Output 'flavors'	
			Bitmap LEN
			DCS Screened
PostScript		Screened	Bitmap Tiff
PDF Interpreter	FLEXRIP	Output	LP
interpreter	engine		PS & PDF
	Unscreened	8-bit Tiff	
		Separated	DCS Unscreened
		Output	PS & PDF
Esko Native file		Composite	CMYK Tiff
Interpreter			Composite PS
			RTL
		Output	Windows printer
			PS & PDF

- 1. Input channels:
 - PostScript 3 / PDF 1.4 / PDF 1.5 / PDF 1.6
 - Normalized PDF (Esko's native file formats)

Note

FlexRip 12 is compatible with Automation Engine 12, Esko PackEdge 12 and Esko Plato 12 for PS/PDF interpretation.

- 2. Output flavors:
 - FlexRip/Approval provides an interface with Kodak's Approval proofer machines.
 - FlexRip/B either rips on the fly (Esko native only) or rips to (screened bitmap) files before sending the information to the Barco ImageSetter (PS and Esko native).
 - FlexRip/C outputs screened LEN files for CDI's.
 - FlexRip/DCS screened output is a generic module to generate DCS 2.0 files.
 - FlexRip/DCS unscreened output provides generic unscreened DCS 2.0 files.
 - FlexRip/P outputs (un)screened PDF or PostScript files.
 - FlexRip/Proof outputs to proofing devices. Various output formats are available: TIFF, PS, RTL, PDF, Windows Printer, and E Printer. It can also be used for output on digital presses (HP Indigo).
 - FlexRip/Tg (TIFF/Gray) outputs grayscale (8-bit) TIFFs (unscreened).
 - FlexRip/T4 outputs screened bitmap TIFF files (1-bit).

3.3 What is a FlexRip/DCS?

The FlexRip/DCS outputs DCS files that contain screened or unscreened data, depending on the flavor.

- The **Screened** flavor provides an interface for all workflows to a CtF (computer to film) or offset CtP (computer to plate) device.
- The **Unscreened** flavor is used for interfacing between a DTP application and a proofing device.

FlexRip/DCS Unscreened can be used as an alternative to Esko FlexProof/TIFF to output on the proofer device (e.g. a Dupont Digital Cromalin/WaterProof) if Cromanet color management (Dupont) is to be used. In some cases it is also accepted by gravure systems and can therefore be an alternative to FlexRip/TG.

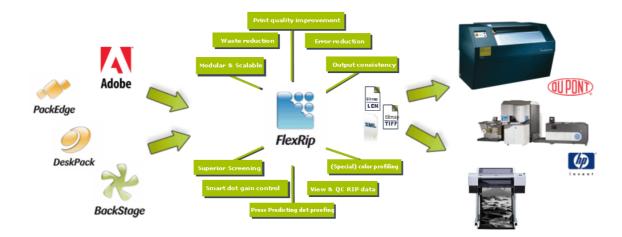
FlexRip/DCS Screened can be used for dot proofing to devices. This can be particularly interesting when the proofer is a CMYKOG(orange, green) proofer.

Advantages over PostScript RIPs:

- The overall speed, accuracy and repeatability.
- The complete range of Esko screens is available.
- Esko Curve Pilot: Dot Gain Compensation tools.
- Esko's flexo distortion.
- Esko's optimized imaging quality.
- Workflow and ImageSetter independent.

3.4 FlexRip basics

3.4.1 General PS and Esko native workflow



This is a general presentation of a FlexRip workflow:

3.4.1.1 PostScript workflow

In a PostScript workflow, the DTP operator (Macintosh or PC) will print an outputready job via the Print menu in the application. Using the printer driver of Adobe PS and Esko's dedicated output device PPDs, the operator sets following job parameters in the (separated) PostScript file:

- the selection of separations to be printed
- screening parameters: dot, screen ruling (lines per inch or lpi), angle
- job size
- DGC, Strategy (*.icpro) or CurveSet (*.prsync) Esko's compensation curves. See the Esko Curve Pilot chapter (page 85) for a short introduction and the dedicated Esko Curve Pilot documentation on the Esko Suite 12 DVD for an in-depth explanation.)
- positive or negative; right or wrong reading
- distortion (flexo-printing issue)

Some settings may be left out as they can be set default in a specific RIP queue (e.g. expose resolution, output folder,...). The PostScript file ends up (via AppleTalk print queue, Hot Folder,...) on the FlexRip and is ripped automatically, using default or job-specific RIP options. The output files will be written in a folder on the FlexRip PC.

See the flavor-specific workflows for more in-depth information.

3.4.1.2 Native workflow

As well as being an Adobe Certified PS3 and PDF RIP, FlexRip can also rip data from all Esko PrePress applications without any additional calculation or processing time, since the format used in the Esko PrePress applications is exactly the same format used in the FlexRip. This enables an unrivalled level of throughput and consistency.

You can choose to print to the FlexRip directly form Esko PrePress applications like Esko PackEdge and Esko Plato and all output options can be set interactively. To maximize throughput, operators can rip files via a ticket-driven workflow (Automation Engine Server or FlexRip Pilot), offline from the graphical editors. Jobs can be selected, assigned a ticket and then launched in the background, reducing workstation time. Users can see the ripping progress of any job on either the Mac or Windows PC. Logging information can be obtained.

See the flavor-specific workflows for more in depth information.

3.4.2 Which file formats can be sent?

As the FlexRip is a certified PS level 3 RIP, following file formats can be sent:

- Separated PostScript: Level 1, 2 or 3.
- PDF 1.3 PDF 1.4 PDF 1.5 PDF 1.6
- Esko's native file formats.

A normal PostScript workflow will only be based on **separated** PostScript, although FlexRip can handle composite PS files as well. The PostScript interpreter of the FlexRip will read composite PostScript, analyze it into separations and hand over the data of each separation to the RIP, which will make 1 output file per separation. However, customers that receive composite PDF files have to realize that errors may occur when handling the files.

Separated PostScript files for a FlexRip were made with a specific FlexRip PPD. Composite data may not be made via a FlexRip PPD and will probably miss some RIP settings, like the correct screen ruling (angle, LPI, dot type), output name, etc... Most of these then have to be set in the Dispatcher's queue settings. In the Screening tab, you can define the missing screen ruling parameters or overwrite the ones that are incorrect. *In a PostScript workflow, Esko strongly recommends using separated PostScript as standard and preferred input channel.*

Difference between composite and separate PostScript

In general, DTP applications output their data in the description language "PostScript" (PS). When the output has to be a color version (e.g. a proof), one will write "composite PostScript". This 1 file generally includes all the data, their color attributes and their relation to each other. Output for a specific proofer will be done using a PPD file (printer description) of that proofer, meaning that the PS file will be adapted for that specific output device.

When outputting to a film- or platesetter (e.g. CDI), the job has to be delivered to the RIP as a "separated PostScript" file. This means that all the data are already split up per separation (ink). This is also 1 file, but now written in chapters ('pages'). Each Chapter describes 1 ink. The RIP of the film- or platesetter will recognize these "chapters" and handles each ink separately. The color information in this file is in fact redundant info (the laser in the machine does not care about color); so each 'chapter' describes the separation in black.

Also **PDF** files may not contain the correct info. The correctness of the PDF files will heavily depend on the applications that write the PDF files. Very common mistakes, such as missing special colors or missing separation info (LPI/angle) are not limitations of the PDF format itself but of the applications that produce these PDF files. PDF files written from Esko applications such as Esko PackEdge, Esko Plato and Automation Engine will contain the correct info.

3.4.3 Workflow description

In a FlexRip/DCS workflow Esko-native data or separated PostScript files from the DTP station are sent to a specific FlexRip queue. The FlexRip/DCS will immediately rip that file into DCS file(s).

Note

Taking in DCS files may be an option on your expose device (if any). Please check with the vendor of the output device.

1. Screened workflow overview

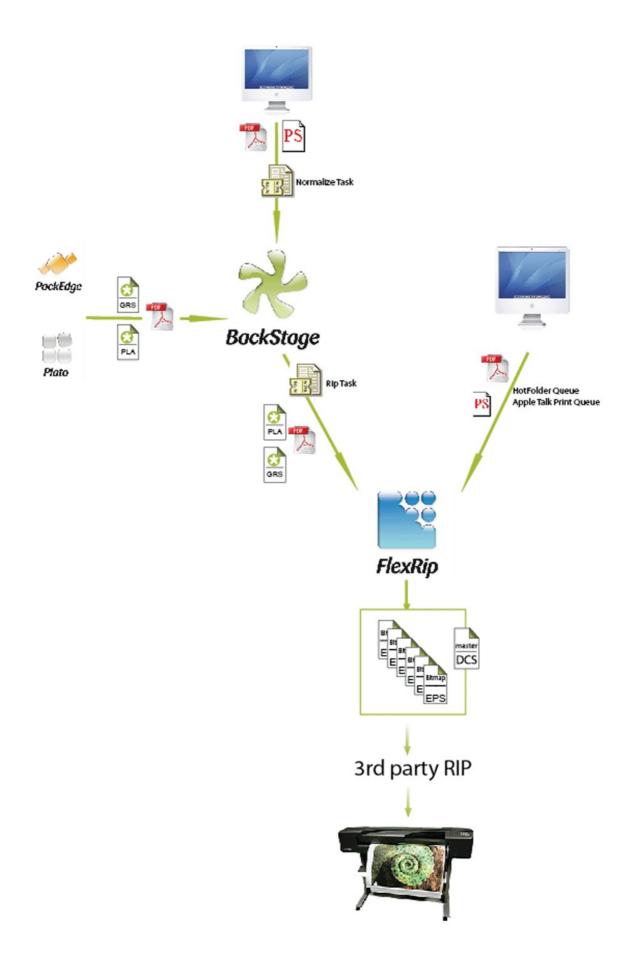
This workflow can be used for film or plate output as well as for screened proofing if foreign color management is needed and if the foreign system can do Pantone simulation.

- 1. Every separation is ripped individually to a screened bitmap EPS.
- 2. When the last separation has been ripped, a master DCS file is written (single or multiple file DCS).
- 3. All screening and dot gain curves are applied.
- 4. The DCS file is sent to a third party RIP that outputs to a proofer device.

Note

Please pay attention that when the DCS file is to be used on a Mac (OS9) the file name (including the extension, with dot) cannot contain more than 31 characters. On Mac OSX this restriction is lifted and the file name can contain up to 255 characters.

Introduction to a FlexRip workflow



2. Unscreened workflow overview

- 1. Every separation is ripped individually to a grayscale EPS.
- 2. When the last separation has been ripped, a master DCS file is written (the operator has the choice between a single file and a multiple file DCS).
- 3. No screening is applied.
- 4. The DCS file is sent to a third party RIP that outputs to a proofer device.

3.5 Output file type

DCS is the abbreviation for Desktop Color Separation and is in fact an EPS file that contains some extra commentary lines. The EPS file points to plate files that are either external files or are embedded in the file itself. The plate files are also EPS files. This means that for each separation made by the RIP there will be a plate file, compressed or uncompressed, in the resulting DCS file. External files do not have the classic .eps extension but a short ink name of the ink they represent. E.g. the plate file that represents the cyan ink will have the extension ".C". For Pantones the extension will be the Pantone number or short name of the Pantone ink. For designers the extension begins with a D and is followed by the designer ink name.

A DCS file may also include two previews (one for placement only and one for low resolution proofing purposes from f.i. a DTP application).

The size of the DCS file is of course determined by the size of the job and the detail it should describe the job separation with (ppi). A DCS file can be compressed or uncompressed. If it is compressed it will be decompressed when opened in a viewer. View programs only show you all the pixels when you zoom in enough. A full view will not show all the pixels (it would make the viewer too slow), but will sub-sample and give you a good general view.

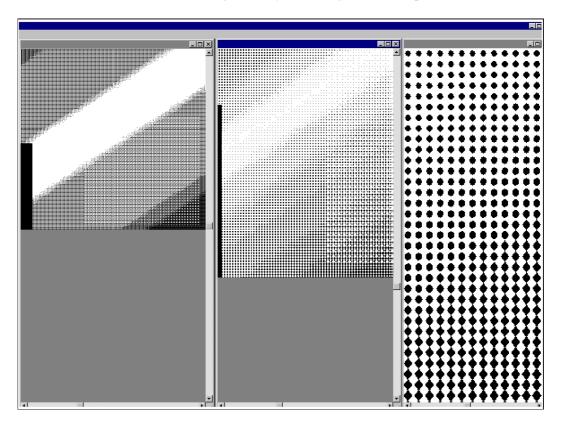
Compression methods

Standard compression methods include CCITT G4 (Screened only), LZW and Flate. FlexRip/DCS supports all of them.

- *CCITT G4*: CCITT stands for "Comité Consultative Internationale Telefonique et Telegraphique" (International Telegraph and Telephone Consultative Committee). The committee has defined many important standards for data communications. G3 and G4 are two standards designed for text. G3 is a faster compression algorithm whereas G4 has a higher compression rate (smaller files).
- *LZW*: Compresses data using the LZW (Lempel-Ziv-Welch) adaptive compression method, optionally after pretransformation by a predictor function. This is a good general-purpose encoding that is especially well suited for natural-language and PostScript-language text, but it is also useful for image data.

• *Flate Compression*: The lossless deflate compression algorithm is based on two other compression algorithms: Huffman encoding and LZ77 compression. Deflate is a smart algorithm that adapts the way it compresses data to the actual data themselves.

This is what a DCS file looks like (a full view of a magenta separation):



These are 3 different zoom-ins, gradually showing the actual print dots:

3.6 What is a FlexRip Queue?

The heart of the FlexRip is a program called the **Dispatcher**. A Dispatcher controls the RIP and manages input queues for one specific device. Queues receive the PS data that were printed from the DTP station. The behavior of the queue ('how will it rip') is determined by its 'settings'. Each queue can have different settings.

There are several queue types. The most common are:

- An AppleTalk print queue (Macintosh)
- A Hot Folder
- A 'Named Pipe' queue ("PC-talk").
- An EskoLink queue

The FlexRip queue receives the data and rips it to a DCS file according to its specific settings.

4 Startup and shutdown of FlexRip

4.1 Why and when?

In any normal FlexRip workflow, the FlexRip computer should never be shut down. Even reconfiguring RIP queues does not require shutting down or rebooting the computer.

So why shut down the FlexRip?

- You expect a power failure.
- You physically want to move the computer.
- You have to open the computer (hardware service reasons).

Or why reboot the FlexRip?

- The Windows software asks you to. This will often be the case when reinstalling Windows software or peripherals on the computer.
- Some (Esko) service intervention requires to do so (changes to configuration of the network, modem or display might require a reboot afterwards).

A Windows shutdown will automatically stop all running processes. This means that also all running Esko programs will be stopped automatically. We do advise you to separately stop all programs before rebooting or shutting down the FlexRip computer.

As the FlexRip is made to rip, and the RIP itself is a client process of the Dispatcher program, the most important program running on your FlexRip is the Dispatcher! This will also be further explained in detail.

4.2 How to start up a FlexRip?

4.2.1 Start up the computer

The FlexRip computer is switched off.

- Check the network cable.
- Switch the monitor on.
- Remove all floppy disks or CDs from their drives.
- Press the power button (top-left on front panel).

Windows will make your computer boot automatically. If you are not familiar with PC operating systems, never intervene during the boot process. The boot sequence should end with a screen that has the window:

"Begin logon" 'Press Ctrl + Alt + Delete to log on'

If you wish to use the normal FlexRip software, log on as user 'FlexRip' with password 'flexrip'.

Only log on as user 'Administrator' for Windows system-management reasons or to install software.

4.2.2 Starting up the Rip

Starting the Dispatcher program starts the RIP.



- Start up the "Dispatcher" by double-clicking its desktop icon or by choosing the right Dispatcher via Start =All Programs =Esko =FlexRipDCS 12.0
- Start up the 'Status Monitor' in the Tools menu in (each) Dispatcher.
- Start up the 'History View' in the Tools menu in (each) Dispatcher.

More detailed info on these programs can be found further in their separate sections: Status Monitor (page 72) and History View (page 75).

Note

Renaming the desktop icon can only be done in the FlexRip Configurator. See the FlexRip Configurator manual for more information.

4.3 How to shut down a FlexRip?

4.3.1 Stopping the Rip

Closing the Dispatcher program stops the RIP.

Note

When stopping the Dispatcher program, it is always advisable to close its client programs Status Monitor and History View first.

How to stop the Dispatcher:

• Choose Exit from the Server menu and confirm by clicking Yes on 'Are you sure? Or simply click the close button (top-right in the Dispatcher window)

and confirm with Yes on 'Are you sure? '.

4.3.2 Shutting down the computer

To shutdown the FlexRip computer:

- Close all programs.
 Other programs that could still be open:
 - Esko Curve Pilot
 - Text editors Notepad or WordPad
- 2. Start = Shut Down. Choose 'Shut down the computer' and click YES.

4.4 How to reboot the FlexRip computer?

- Close all programs.
- Go to Start ⇒ Shut Down ⇒ Restart the computer and click YES. The computer will automatically shut down and restart again.

5 An overview of programs on the FlexRip

5.1 General

Logged on as user 'FlexRip' (see next section for details on logon users (page 26)), you will probably find at least 3 icons on your desktop that start up following programs: the Dispatcher, Esko Curve Pilot (Esko's Dot Gain Compensation editor) and FlexRip Configurator 12.0. If you do not find any desktop icons go via Start ⇒ Programs =Esko...

 The *Dispatcher* is the 'heart' of the FlexRip. It is both the 'daemon' (continuous automatic process) that makes the RIP run and the place where all queues and RIP options are set up. Each output device requires a new Dispatcher. This means that if you make files for 3 different output devices, you will have 3 Dispatchers.

Note Note that each Dispatcher needs a separate licence.

2. The *Status Monitor* is a dedicated monitor of the Dispatcher processes. This Monitor is opened from within the Dispatcher Tools menu.

It is recommended to activate the Status Monitor immediately after starting up

the Dispatcher. Starting up the Status Monitor after having launched a job will

not immediately show the actions of the job that is being ripped.

- 3. *History View* lists the finished processes and their log files. History View is opened from within the Dispatcher Tools menu.
- 4. *Esko Curve Pilot*: this DGC (Dot Gain Compensation) editor offers you the possibility to make the compensation curves that are necessary for specific printing processes (e.g. flexo). The strategies (the curves, *.icpro files) and DGC curves (single curves) will reside on the FlexRip or the Automation Engine server.



Note

Esko Curve Pilot is further explained in a dedicated Esko Curve Pilot document that can be found on your Esko Software Suite12 DVD.

Note

Curves for the CDI or Automatic PlateMaking curves can be created in the FlexRip Configurator.

5. The **FlexRip***Configurator* allows you to add, modify or delete configurations.



Note

You should be logged on as 'Administrator' to be able to use the FlexRip Configurator.

5.2 Which logon to use?

- When do you log on as user **Administrator**? When you are installing or removing software or configuring your FlexRip computer on Windows level (networking, connectivity etc).
- When do you log on as user **FlexRip**? In all other cases. All daily use of your FlexRip: the Dispatcher or its queue management, Esko Curve Pilot, Esko Bitmap Viewer.

The following sections cover the Dispatcher (page 27), Status Monitor (page 72) and History View (page 75) in detail.

6 Dispatcher

6.1 General

The Dispatcher program is used for:

- Starting and stopping the Rip
- Setting up input queues and their Rip options

₽ i	+	tcher	Connec	ted Monito	<mark>_□×</mark> ors: O
	Input Queues Name FlexRipDCS_Screened_AT Hot Folder FlexRipDCS_Screened_NP Esko Server	Type AppleTalk Hot Folder Named Pipe EskoLink	State Fail Idle Idle Idle	KBytes	
	New Queue	Info D	elete	Queue S	ettings

The Dispatcher is started by:

- Double clicking the icon on the desktop.
- Clicking Start = Programs = Esko = FlexRipDCS 12.0 = FlexRipDCS Dispatcher.

This starts up the Dispatcher program itself, but also puts the actual RIP in an 'idle' status, which means stand-by for action.

Warning

When the Dispatcher program is stopped, all ripping processes stop executing and the RIP itself is stopped.

When an ongoing RIP process has to be stopped for some reason, then choose 'Abort job' from the Server menu. This stops all ongoing RIP processes, but leaves the Dispatcher program alive. As soon as you send a new job to the RIP, the RIP will start up automatically. When the Dispatcher is started for the first time, there will be at least 4 queues visible, one of each standard type.

6.2 Rip menu



The Server menu contains the following items:

- 1. Clear History (page 28)
- 2. Send Job(s) (page 28)
- 3. Abort Job (page 29)
- 4. Restart PS Rip (page 29)
- 5. Exit (page 29)

6.2.1 Clear History

Choosing *Clear history* will delete all messages in the History View selection. You will be asked to confirm first. As this deletes all entries in the history database, they cannot be retrieved. This 'cleaning' will also delete the corresponding RIP log files.

Note

It is normally not necessary to clear this history database manually. In the Options $menu \Rightarrow Program$ Options, you will be able to set a limit for the amount of history entries that have to be remembered. If this number is exceeded, the oldest entries are removed automatically.

Tip

It is advised not to enter a high number for the amount of history entries. The higher the amount of entries allowed, the slower the History View and RIP logging will function.

6.2.2 Send Jobs

Click *Send Jobs* to open the 'Select and Send Jobs' dialog. Here you can browse to the job you want to send.

Note

This will only work if a Hot Folder is selected in the Dispatcher. You can also right click the selected Hot Folder queue to make the Select & Send Job(s)dialog pop up.

🕀 Select & Send Job(s)				×
GOV 🕨 - EA101000	EA101999 • EA101461 • ORIGINALFILES • Files	• • • 🔂 🛛	Search Files	2
Organize 🔻 New folder				• 🔟 🔞
👝 Aleph1 (L:)	Name 🔺	Date modified	Туре	Size
Aleph1 (M:) Aleph1 (O:)	🌗 .metadata	6/14/2012 9:09 AM	File folder	
PED (\\EGSBE101\u	🕌 external	6/13/2012 10:13 AM	File folder	
Aleph1 (Q:)	13444079 Etich SP UK Fiat500 0,5L PET.pdf	6/7/2012 3:23 PM	Adobe Acrobat	21,037 KB
👝 Aleph1 (R:)	43444079_SP UK Fiat500 0,5L PET.pafsc	6/11/2012 3:02 PM	PAFSC File	22,419 KB
🚽 GlobalStorage (\\e:	🏥 43444079_SP UK Fiat500 0,5L PET.pdfpla	6/7/2012 4:19 PM	Plato PDF File	326 KB
Aleph1 (X:)				
Aleph1 (Y:) Aleph1 (Z:)				
👽 Network				
•				
File <u>n</u> a	ame:			-
			<u>O</u> pen ▼	Cancel //

6.2.3 Abort Job

As explained above, *Abort Job* stops the RIP (and as a consequence any current ripping process). Remember that the RIP is automatically started again as soon as another job comes in. You could choose to abort a job when you are sure you do not need the output (e.g. you know the input file was wrong or a mistake was made in the queue options).

Output files that were already generated by the RIP are not automatically removed.

6.2.4 Restart PS RIP

When Japanese fonts are downloaded, *Restart PS RIP* allows restarting the PS engine of the RIP to activate the fonts in the RIP.

6.2.5 Exit

This will stop the Dispatcher program (and the RIP). Clicking the close button of the Dispatcher dialog will have the same effect. You will be asked to confirm first.

6.3 Options menu

```
Program Options...
Queue Defaults...
Performance...
Rip Priority...
```

The Options menu contains the following items:

- 1. Program Options (page 30)
- 2. Queue Defaults (page 32)
- 3. Performance (page 33)
- 4. Rip Priority (page 33)

6.3.1 Program options

The program options are general Dispatcher settings. They can be set per Dispatcher.

Dispatcher Program Options	×
- FlexRip Log Files	BackStage Server Disk Mounting
C Do Not Create	C Disks are already mounted
 Always Create 	Oispatcher mounts disks
C Create When Error	
Trace Messages and History	
🔽 Save Dispatcher Messages	
Number of files used : 10 🛨	1
Maximum number of message	s in each file: 2000 🛨
Number of entries in History: 5000	*
- Input Queue Settings	
Include Debug Options	Units: inch 💌
Include Tuning Options	
Advanced	
Capture Postscript file	
OK	Cancel

6.3.1.1 FlexRip Log Files

You can decide here whether or not you want the RIP to create log files. They can be interesting to find out what happened if something went wrong. It is advised to always create log files. Log files can be viewed in *History View* and are physically located in the *Logging* folder.

C:\Esko\bg_data_flexripdcs_v120\dcs\Logging.

6.3.1.2 Automation Engine Server Disk Mounting

Enable Dispatcher mounts disks unless specifically mentioned otherwise.

6.3.1.3 Trace messages and History

- *Save Dispatcher Messages*. It is advised to activate this toggle. 'Trace messages' keep track of the general status of the Dispatcher. Esko will only consult these in case of problems.
- *Number of files used* indicates the maximum number of trace files that will be stored.
- *Maximum number of messages in each file* indicates the number of entries that will be stored in one and the same trace file.

• *Number of entries in History* indicates the number of log files History View will show you. The number of entries in the History can be set as wished. 500 will probably be enough. This means that when entry number 501 appears, entry number 1 will be deleted.

6.3.1.4 Input Queue Settings

- *Include Debug Options*: When checked, an extra tab sheet in the default queue settings will appear: 'Debugging'. Please activate this Debugging (page 66) tab, because it enables you to control the contents of the log files. This is especially interesting for fast troubleshooting by customer services. They will advise you which settings to change in order to speed up problem solving.
- *Include Tuning Options*: Should not be active (again unless Esko Customer Service asks you to activate it).

Enabling the Tuning options makes a number of extra tabs appear in the Queue Settings:

- CopyDot Tuning (page 68), which is explained further on.
- LineWork Tuning
- Contone Tuning
- Memory Tuning

Note

Linework, Contone and Memory Tuning are specific tabs for our Customer Service department and may only be used to solve or find a workaround for a specific customer workflow or FlexRip problem.

• *Units*: Can be set to INCH, CM, MM or MIL (1000 MIL = 1 Inch).

6.3.1.5 Advanced

Capture PostScript file: This should not be activated unless Esko Customer Service asks you to. When activated, then after ripping every PostScript file together with a lot of extra information will be stored in a special folder as an extra text file. This is not the same as keeping the PostScript file in a Hot Folder after ripping! See further in the appendix: Some classic errors and their explanation (page 92).

6.3.2 Queue defaults

A FlexRip can have several queues of:

- different types
- the same type

Each queue will have its own settings (how to rip, where to write the output file...). The settings in *Queue Defaults* however are valid for all queues. We refer to the Queue Settings (page 44) chapter for more details on queue settings. (The different tabs look exactly the same).

The priority of the settings (page 44) is described further on.

6.3.3 Performance

This panel was used to overrule the default scheduling behavior of the Windows operating system. Recent Windows versions do this very good by default, so we no longer allow to overrule this.

Performance	×
Affinity	
The Rip kernel will use any available processor core to run on	
Overruling this behaviour is no longer supported.	
We let the Windows kernel handle the affinity scheduling.	
(OK)	_

6.3.4 Rip priority

This field allows you to set the priority of the ripping process over other processes. You might for instance have noticed that changing queue settings (working with the interface of the Dispatcher) is very slow when the FlexRip is ripping at that same moment. That is because the RIP process (the kernel) had all the priority. Now, some customers will want to use applications on the FlexRip a lot (working with Dispatcher, Esko Curve Pilot, and Esko Bitmap Viewer) and some almost never. The recommended setting is Normal.

Dispatcher

Rip Priority	×
Set the Priority at w	hich the Rip kernel runs.
The recommended	setting is "Normal"
Rip Kernel Priority	,
PostScript:	Normal
Native Rip	Normal
Native Rip	Normal
ОК	Cancel

6.4 Tools menu

History View Status Monitor

The Tools menu contains the following items:

- 1. History View (page 34)
- 2. Status Monitor (page 34)

6.4.1 History View

The Dispatcher program itself will not show you the list of actions that are finished. *History View* will. All further info on the History View (page 75) program can be found in a separate section.

6.4.2 Status Monitor

The Dispatcher program itself does not show any detailed information on the ripping action. The *Status Monitor* program of that Dispatcher will show you more. All further info on the Status Monitor (page 72) can be found in a separate section.

6.5 Info menu

Ports	
Help	
About Dispatcher	

The Info menu contains the following items:

- 1. Ports (page 35)
- 2. About Dispatcher (page 35)

6.5.1 Ports

The Dispatcher is the server program of the Status Monitor and History View programs. The Dispatcher ports are used by its client applications to be able to communicate with the Dispatcher. Technically they are TCP/IP socket port numbers.

6.5.2 About Dispatcher

Shows the date and version number of the Dispatcher program. This is useful information when reporting some problem with Dispatcher. It is NOT the version of your FlexRip software (see FAQs).

6.6 Connected monitors

The Tools menu allows you to start up a History View or Status Monitor of that (specific) Dispatcher. Both are actually client processes of that Dispatcher and count for a 'connected monitor'.

As there is no need to start up a History View or Status Monitor a second time, you will mostly see that the number of connected monitors is 2. If you see a number over 2 then you probably already started up these client programs and 'minimized' them. This indicates that this number is only there for your information.

6.7 Input queues

First we have a short look at the possible queue types and then a closer look at their settings.

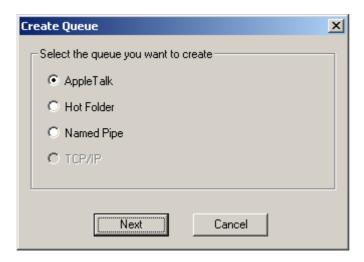
6.7.1 Possible queue types

- **AppleTalk**: From Snow Leopard onwards (Mac OS X 10.6), AppleTalk is no longer supported on Mac. The preferred solution now is to use Esko Shuttle functionality to directly send files to the EskoLink channel of the Dispatcher.
- Hot Folder: A FlexRip Hot Folder is a folder on the FlexRip station that is mounted/shared (made visible) to other computers on the network. The DTP operator will print 'to file' and save the file directly in this Hot Folder. See also the section in the appendix 'How to mount FlexRip volumes on a Macintosh? (page 112)'.
- Named Pipe: From Windows Vista / Windows Server 2008 onwards, our Named Pipe workflow no longer works (as it relies on an Adobe kernel printer driver, and kernel printer drivers are no longer supported). The preferred solution now is to use Esko Shuttle functionality to directly send files to the EskoLink channel of the Dispatcher.
- **EskoLink**: 'EskoLink (or previously 'BarcoLink' or 'DigiLink') is a queue that represents a link with an Esko Server (Automation Engine or FlexRip Pilot). This kind of queue will 'receive' RIP requests for Esko native files.

6.7.2 New - Queue Info - Delete

Should you have deleted the only queue of a specific type, (e.g. you deleted the only AppleTalk queue present) then click the line below the other still existing queues (so no specific type is selected), and then click 'New'. The Create Queue window will pop up, allowing you to select a particular type of queue.

These three types of queues are PostScript channels. They cannot be used for Eskonative files.



For an AppleTalk queue you can only set the name and priority. Two situations are possible:

1. You create a new queue that is a **copy** of an existing queue. Here you can either use the queue settings of the queue copied, or you can take the default queue settings. Activate or deactivate the toggle to specify your choice.

AppleTalk Queue		
Name:	FlexRipDCS_Screened_AT Copy	
Priority:	1	
🗖 Takı	e Default Queue Settings	
	OK Cancel	

2. You create a completely **new** queue.

AppleTalk	Queue	×
Name:	FlexRipDCS_Screened_AT Copy	
Priority:	50 🛨	
🔽 Tak	e Default Queue Settings	
[OK Cancel	

The default queue settings option is greyed out, since these settings will automatically be taken. As this queue is no copy of an existing one, no settings can be copied.

For Hot Folder queues, apart from the name of the queue, the folder also has to be set up. For more information, see the next chapter: General (page 39).

Dispatcher

Hot Folder	×
General Name: Hot Folder]
Folder: D:\Esko\bg_data_flexripdcs_v120\D Browse ✓ Activate Scan Interval : 5 seconds Queue Priority : 1 =	
File Handling Trigger On File Type EPS PDF* PS	_
Keep Files With Unknown File Type For 180 📑 sec In Hot Folder	
■ Remove File After Imaging OK / Error Folders ■ Take Default Queue Settings ■ Take Drag & Drop Files	
Cancel	

For Named Pipe queues, two situations are possible:

 You create a new queue that is a **copy** of an existing queue. Here you can either use the queue settings of the queue copied, or you can take the default queue settings. Activate or deactivate the toggle to specify your choice.

j o di chorect	
Named Pipe	×
Name: FlexRipDCS_Screened_NP_copy	
Priority: 1	
🗖 Take Default Queue Settings	
Cancel	

2. You create a completely **new** queue.

Please give it a short name, preferably in one word: e.g.: Flexpipe. The default queue settings option is greyed out, since these settings will automatically be taken. As this queue is no copy of an existing one, no settings can

Dispatcher

be copied.	
Named Pipe	x
Name: FlexRipDCS_Screened_NP_copy	
Priority: 50	
🔽 Take Default Queue Settings	
OK Cancel	

6.7.2.1 General

Hot Folder	×
⊢ General	
Name: Hot_Folder_2000ppi	
Folder: data_flexripdcs_v120\DCS\HotFolder Browse	
Activate	
Scan Interval : 5 📑 seconds	
Queue Priority : 1	
File Handling	
Trigger On File Type Known File Types	
PDF* << DCS	
Keep Files With Unknown File Type For 180 📑 sec In Hot Folder	
Remove File After Imaging OK. / Error Folders	
Take Default Queue Settings	
Take Drag & Drop Files	
OK Cancel	

1. Name:

Give your Hot Folder queue a logical name. The operators will then have a clear idea what the nature of the output will be. As seen in the above graphic: the name of the Hot Folder already shows that the file is ripped at 2000 ppi. So it is advisable to 'summarize' in the name of the queue the 'hard' queue settings that influence the output (as these queue settings will overwrite the settings in the PostScript file).

2. Folder:

Type in the correct path of the folder on the FlexRip that will serve as Hot Folder.

Note

Create the actual Hot Folder (using Windows Explorer) before you start creating the Hot Folder queue.

Note

On Windows level, you could delete a folder that is used by a Dispatcher queue as the actual Hot Folder. When this happens, the Dispatcher will detect that the construction of this Hot Folder is no longer valid. When you consult its 'queue info' and click 'OK' following warning will appear: "New Folder"

The Folder 'name' does not exist.

3. Activate:

Checking the box activates the folder as Hot Folder. A de-activated Hot Folder will not rip incoming files automatically.

4. Scan Interval:

This indicates the period after which the Dispatcher checks the Hot Folder for incoming files.

Note

If you are scanning Hot Folders over the network, you should decrease the frequency of which the Hot Folder is scanned, otherwise you might create unnecessary network

activity. In other words, if your Hot Folder does not reside on the FlexRip, increase the number of seconds.

5. Queue Priority:

The RIP will (only) consult the priority settings when several jobs are waiting to be ripped. While the first job is being executed the RIP will consult the queue priority setting to decide which one to rip next.

Example:

When the RIP is processing a job in queue A, and both queue B and C have a job waiting to be ripped, then the queue with the highest priority settings will have its

PostScript file ripped next (e.g. B has priority 3, queue C has priority 2. When queue A has finished, the job in queue C will be next).

6.7.2.2 File handling

1. Trigger on file type:

Select the file types you want the Hot Folder to trigger on and put them in the 'Trigger on File Type' column. Move the extensions from the right to the left column by clicking the << button. If you do not specify file types in the 'trigger' column, the RIP will start up for any incoming file, regardless if this file can be processed or not.

PDF* stands for all types of Esko PDF Native files (PDF, PDFPLA, PDFSTA,...)

2. Keep files with unknown file type for x seconds in Hot Folder:

File types you told the Hot Folder not to rip are best not kept in that Hot Folder. These unknown file types will be moved automatically to the subfolder named 'error'. Determine after how many seconds you want them to be removed. The maximum value here is 1800 seconds (30 minutes).

3. **Remove file after imaging**:

When the option is not activated, the PostScript file will stay in the Hot Folder after it has been imaged (in an appropriate subfolder named 'OK'). If you want to use the same PostScript file for imaging on other devices via other FlexRip flavors you should not activate this box. If it is active the PostScript file will be deleted and you will need to make a second PostScript file for the other devices.

Note

This is only about known files that have actually been ripped. Not having these removed (deleted) after ripping means they will be automatically moved to the subfolder OK or Error.

4. Take Drag & Drop Files:

makes it possible to drag and drop files onto a Hot Folder that is defined in the FlexRip Dispatcher. It is also possible to select and send an (E)PS/PDF file to a Hot Folder from the FlexRip itself. Checking the 'Take Drag & Drop Files' box prevents you from actually having to drop the files into the defined Hot Folder before the file would be ripped. Files can be selected from any folder visible from Windows Explorer. To activate this mechanism:

- 1. Click the Hot Folder to highlight it.
- 2. Click Queue Info.
- 3. Activate Take Drag and Drop files.
- 4. Click OK.

Note

It is only possible to activate this 'Take Drag & Drop files' feature for 1 Hot Folder at a time.

To select (E)PS/PDF files to be ripped on this Hot Folder using the Windows Browser:

1. Click the Hot Folder to highlight it.

2. In the Dispatcher, select Send Job(s) from the Server menu or click right and select Send Job(s) from the pop-up menu..

3. Browse to the job(s) and click Open.

The selected files will be copied automatically to the Hot Folder and will be ripped normally.

5. OK/Error Folders:

🔲 Remove file after imaging	OK / Error Folders
🔲 Take default queue settings	
🔽 Take Drag & Drop Files	

The settings above allow you to either keep the incoming files after ripping or to remove them. If you decide that files should be kept after ripping it is advised to define exactly to which folder you want them to be moved. Per Hot Folder, 1 folder can be specified for all files that went through the FlexRip successfully and another folder for those files that errored out or were aborted by the user. To define these folders:

- 1. Click the Hot Folder and click the Queue Info button.
- 2. Now click the OK/Error Folders... button

Note

This button will be greyed out when the Remove file after imaging option is activated.

DK/Error Folders	<
Files that were processed successfully will be moved to the OK Folder Files that were not processed correctly or that were aborted by the user will be moved to the Error Folder	
OK Folder : o\bg_data_flexripdcs_v120\DCS\HotFolder\Ok Browse	
Error Folder : \bg_data_flexripdcs_v120\DCS\HotFolder\Error Browse	
OK Cancel	

3. Select 1 folder for the files that went through the FlexRip successfully (OK folder) and 1 folder for the files that errored out or that were aborted by the user (Error folder). Note that before you specify the folder of your choice, the default folder is defined.

Note

It is advised not to put the processed files in the Hot Folder.

4. When specifying the folder name you can browse to it or you can type in the name of your folder. If the folder you specify does not yet exist the system will ask if it needs to be created.

Note

These fields cannot be left blank.

New Folde	er 🔀
?	The specified OK Folder does not exist. Do you want to create it?
	Yes No

7 Queue Settings

Many of the settings that are explained hereafter can also be set as print options can be set in the Automation Engine or FlexRip Pilot for Esko-native workflows and in DTP applications for PS/PDF workflows. But then, which settings will the RIP take into account? What if opposite settings occur? And what if options are not set? The next section explains how different settings interact.

7.1 Priority of settings

When an operator has set specific options, the file ends up in a Dispatcher queue that also has its specific queue settings, and possibly also extra settings in the 'default settings' window. Which RIP settings will then be taken? This is the order of how the RIP consults the settings:

1. FIRST: **Dispatcher: specific Queue Settings**. Queue settings will overrule all others. Settings you always want to apply should be set here. See the section 'Workflow: flavors and hints' for an important remark on the settings 'image' and 'emulsion'!

Note

Options that are set in the Dispatcher Queue Settings will be greyed out in the server tickets.

- 2. SECOND: **settings in the ticket or PostScript file**. On this level you can set the options that are job-related. In an Esko native workflow, the settings in the ticket will be taken. In a PostScript workflow, settings in the Print menu, using the correct PPD, will be used.
- 3. THIRD: Dispatcher: (menu 'options') **Queue Defaults**. Queue Defaults are settings that apply to all queues. The RIP will only consult them if options are not set in the Dispatcher or the ticket/PostScript file. This means that they are only executed in case there is still a "none" setting to be answered! If a "none" setting is still not answered by the Queue Defaults, the default setting inside the FlexRip software will be taken.

Tip

To set up a logical workflow, it is advised to set the options that are always applicable as high in the order as possible as these will overwrite occasional mistakes in ticket or print settings.

Example: You always want to expose on a device at 2000 DPI. Then enter the resolution setting in the Queue Settings. As soon as a setting is required only from time to time, you might consider:

- to put it in the name of the (newly made) specific queue.
- to leave the (default) queue settings on 'none' and specify it (each time when wanted) in the ticket or PostScript file.

Note

A number of options, like output path and (scr)dgc can also be set in the FlexRip **Configurator**. These settings will overrule all settings mentioned above! To make you aware of Configurator settings, options that are set in the Configurator aregreyed out in the Dispatcher, ticket and Queue Defaults.

7.2 Basic

The Basic options allow you to decide on how the output should look.

Queue Settings: Hot Folder
InkPlanner Curve Pilot PS PDF Marks Debugging Basic DCS screened output Screening PS PDF Input
FlexRipDCS_T4 -> Generic screened output
Resolution (none)
HScale VScale
Page Size:
(none) Vidth Height
Imaging Options
Image (none) 💌 Emulsion (none) 💌
Dotshape (none)
OK Cancel Apply

Warning

Do not enter 0 (zero) in a value field. It will be considered as a 'hard' value and possibly overwrite others! Leave the value field 'empty' before clicking OK.

7.2.1 Output module

This shows the type of Output module this specific Dispatcher was made for. Each Dispatcher is based on a specific FID file (FlexRip Information Database). A FID file describes a machine type (device, printer description), which is why specific resolutions and size options will appear in the dropdown lists.

7.2.2 Resolution

Here you can specify the expose resolution of the job. The values in the dropdown list are specified in PPI (Pixels Per Inch). The resolution chosen here will be identical to the resolution the file will be exposed with. This field should be set to (none) if the decision is left to the operator.

7.2.3 Rotation

For PS/PDF or native input (Hot Folder, AppleTalk or Named Pipe) it is possible to preset a rotation.

7.2.4 Scale

Scale options can be used for real job scaling (whole job at 50 %) or for the flexo distortion factors (e.g. Horizontal: 0.982 - Vertical: 1). It is advised not to set the distortion factor here (leave the fields blank!) as it is rather job-related and it is easily set in the PostScript file settings when printing from the application or in the setting options in the ticket.

Warning If no scaling is required, then do not enter '1' as any value here will be seen as an actual queue setting that overrules all others. It is advised to leave this field blank.

What if I printed Transverse?

Or in other words, what if the job is rotated in the RIP? The H and V seen here are still the H and V as you 'see' in the job when viewed in the application. Scaling factors have to be a value ranging between 0.000 and 2.000 (between 0 and 200 %). It is not possible to set a value for one direction and leave the other value field blank. This means that if you want a vertical scaling of 96,7 % you have to enter 0.96700 for Vscale and 1.00000 for Hscale.

7.2.5 Page size

Page size options allow you to overrule the size of the input file. It is also advised to leave this on 'none' as the output file is best the size that was determined in the application. Overruling the size of the input file might influence the positioning of the output on film or plate.

Warning

Never leave it on Custom page size, which takes the maximum size for that device. This means that it will always create output files as big as the drum surface.

7.2.6 Imaging options

7.2.6.1 Image

Here you decide on either a positive image or a negative one. Outputting to the CDI requires a positive image. When set to 'none', this setting will be read from the PostScript file or server ticket. Also see the Priority of Settings (page 44) chapter.

Warning

When defining 'positive' in both PostScript file/ticket and in the Queue Settings the result will be 'negative'! As you cannot select 'none' in the PPD, we advise you to leave this setting in the Dispatcher queue to 'none' and let the operator decide this in the PostScript file or server ticket! Please also see the scheme in the section Workflow: flavors and hints (page 80).

7.2.6.2 Emulsion

Emulsion UP means: readable when the emulsion side of the film is held up.



This is an example of a positive emulsion up eps file:

Emulsion DOWN means: readable when the emulsion side of the film is held down.



This is an example of a positive emulsion down eps file:

When set to 'none', this setting will be read from the PostScript file or server ticket.

Warning

The same problem as described for image can occur here. The decisions of the queue and the PostScript/native file might conflict and then reverse what you expect! As you cannot select 'none' in the PPD, we advise you to leave this setting in the Dispatcher queue to 'none' and let the operator decide this in the PostScript file/ticket! Please also see the scheme in the section Workflow: flavors and hints (page 80).

Note

In the PPD file, 'right reading' refers to 'emulsion up' (when reading it right) and 'wrong reading' refers to 'emulsion down' (when reading it right).

7.2.6.3 Dot Shape

Choose your dot here. When set to 'none', the dot shape in the ticket or PostScript file will be used.

For more information on Esko screening technology, we refer to the Screening documentation on the Esko Suite 12 DVD.

7.3 Output

Queue Settings: Hot Folder
InkPlanner Curve Pilot PS PDF Marks Debugging Basic DCS unscreened output PS PDF Input
Location & Name Output Location D:\output\ Browse
Output File Name
Restricted Filenames
Configuration Set Name (none)
Properties Single / Multiple File (none)
Compression Algorithm Lempel-Zif-Welch (LZW)
Antialias (none)
Previews
Placement Only (none) 💌 Resolution (none) 💌
Proofable Preview (none) 💌 Resolution (none) 💌
OK Cancel Apply

7.3.1 Location & Name

7.3.1.1 Output location

The location of the output folder(s) for the temporary output files is free to choose. It is logical to define the output folder(s) on a hard disk with enough space available (often drive $D:\$ on a FlexRip).

Tip

If you want several output folders, then it is a good idea to create them under one general output folder. So, after making the top folder visible to other computers, any new folder under that top folder will automatically become visible as well.

Note

There are different places where you can specify the required output location. If the output path is specified in the FlexRip Configurator (which has the highest priority), the output path will be greyed out in the Dispatcher, ticket and Queue Defaults.

Example D:\output Is the 'top' folder This folder is not used as a real output folder. D:\output\komori_urgent D:\output\komori_normal are actual output folders that contain the output files. The operator will already see which output files are urgent and on which plate type they should be imaged.

Note

Select the actual folder by using the Browse button, before filling in its path here.

7.3.1.2 Output file name

Note This option is not applicable to FlexRip/Approval and FlexRip/B.

Here you can specify the name of the output file. It is possible to use template variables, as explained below.

Template variables

All variables listed below must be specified between left and right angle brackets (<>). The variables currently supported are:

<file> (name of the file that is sent to the FlexRip)
 For the Esko native input this equals the job name of the PDF native (PDF,
 PDFPLA, PDFSTA, etc.) file name.
 For PS input this equals the name found for %%Title in the PS file.

Note If no name is found in the PS file, 'Unknown' will be taken.

• <ink>

This indicates the color group + underscore + full ink name e.g. pms1000c_warmred

<sink>

The short ink name will be used. For process colors this means e.g. C instead of cyan. For Pantone colors this means the PMS number or a shortened name like WAR for Warm Red.

Warning

Designer colors will still be shown with their full name preceded by the letter 'D'.

• <nink>

The number of the ink will be used, based on the ink table in the original job.

e

For Esko-native input, this variable will add the page number to the output name in case of a multipage document. In separated PS files every separation is a page. This means that for a job with 6 inks the separated PS file will contain 6 pages. For a multipage document you will get 6 pages for every page in the document. For PS input this variable will add the correct page number to the output file name when using FlexRip/Proof (composite) output. For all monochrome flavors (B, C, TG and T4) the page number of the PS file will be used. This explains why e.g. the output file name for the 4th separation of the first page of the document will get page number four.

• <date>

This variable will add the date of ripping in numbers to the output file name. The format is 'yearmonthday' (yyyymmdd). E.g. September 25 2003 will be 20030925'.

<time>

This variable adds the time of ripping in numbers to the output file name. It is also possible to give a hard name in the 'Output file name' input field or combine variables with fixed elements.

Some characters are not allowed in the 'Output file name' input field. The following characters will automatically be replaced by an underscore (_): $\langle , , ; , *, ?, ", <, >, |$

Examples of templates

Without merging

A Normalized PDF file called 'sunshine' has 7 separations (CMYK, 2 Pantone inks and one designer ink) and is sent to the FlexRip EskoLink queue which has the following template:

Output File Name :	<file>_Dave_\$<sink></sink></file>
	Restricted Filenames

The name of the output files will be as follows: sunshine_Dave_\$123.tif sunshine_Dave_\$C.tif sunshine_Dave_\$Dblue sky.tif sunshine_Dave_\$K.tif sunshine_Dave_\$M.tif Queue Settings

sunshine_Dave_\$WaR.tif
sunshine_Dave_\$Y.tif

The fixed element could be used e.g. to specify the name of the operator (in this case Dave).

With merging

Let's assume we have two files. One called 'sunshine' which contains one page and a second file called 'moonlight', containing two pages. The template has been changed to include the page number in the output file names and the file is sent via the merge queue to optimize the film:

Output File Name :	<file>_Dave_P<page>\$<sink></sink></page></file>			
	Restricted Filenames			

Cyan and Warm red from 'sunshine' will be merged with Magenta and Pantone 123 from 'moonlight'. The name of the output file will be as follows: sunshinemoonlight_Dave_P12\$CWaRM123.tif.

The names of the jobs are merged while inks and/or pages are concatenated.

7.3.1.3 Restricted file names

Note

This option is not applicable to FlexRip/Approval and FlexRip/B.

When activated, the names of your output files will be restricted to names that will not give any problems in the VMS operating system. This basically means that all characters that are not letters (abc) or numbers (123) or underscores (_) will be replaced by underscores. So if you are not writing these output files on a VMS computer, you do not have to activate this option.

Example \$#@^%!&-will all be replaced by _ (the underscore)

7.3.2 Configuration set

7.3.2.1 Name

Specify the configuration you want to use.

Configurations are created in the FlexRip Configurator. For more information, please refer to the Configurator documentation on the Esko Suite 12 DVD.

7.3.3 Properties

7.3.3.1 Single / Multiple file

When selecting **single** file output, all separations will be ripped to separate files first. Afterwards, they will all be included in the final DCS file. This means that in the end only one file is created.

Selecting **multiple** file output creates a Master file, referring to plate files. The number of plate files to which is referred equals the number of separations.

7.3.3.2 Compression algorithm

Select the appropriate algorithm from the dropdown list. Choose between CCITT G4 (screened only), LZW, Flate Compression, Uncompressed and None.

7.3.3.3 Enable Anti-aliasing (unscreened only)

Anti-aliasing can be enabled to smoothen text and staircase effects in images. A factor between 2 and 8 can be specified. Note that the Rip resolution will be multiplied with this factor to be able to smoothen and can slow down the RIP process considerably.

Example

If your output resolution is 2400 dpi and you specify an anti-alias factor of 2, the RIP resolution will be 4800, while the final output resolution stays at 2400 dpi.

7.3.4 Previews

7.3.4.1 Placement only

Indicates a preview (RGB) that is generated for viewing the content of the DCS file when placing it into a DTP application. Indicate whether the file will only be used for placement or not, and specify its resolution.

7.3.4.2 Proofable preview

Indicate whether or not you want to generate a preview (CMYK) that is used to make a composite printout from a DTP application.

7.4 PS/PDF Input

Please note that the PPDs used in FlexRip 5.2 will not work in FlexRip 12!

Queue Settings: Hot Folder
InkPlanner Curve Pilot PS PDF Marks Debugging Basic DCS screened output Screening PS PDF Input
PostScript Screen Type Esko Classic (precalculated) Screen Swap Table For Postscript or Dynacell only Pure Black Overprint (none) Enable Optimization
Preserve Quark Trapping (none)
PDF PDF Password: Ignore Calibrated Color Spaces (none)
Images Abort For Images With Scaled Resolution Below dpi
OK Cancel Apply

7.4.1 PostScript

7.4.1.1 Screen type

Enable the appropriate screen type. You can choose between: Esko Classic, DynaCell, PostScript or none.

• *Esko Classic (Precalculated)* means that the aspect, the form, the rulings and the angles of the screen are pre-defined in the Esko screening labs. These screens are the result of advanced engineering work. The screens are optimized for a smooth aspect, good behavior on the different printing processes, lack of artifacts etc. Furthermore, the screens are designed following a system of screen angles that avoids moiré between the main colors (cyan, magenta and black). The use of precalculated screens allows to support advanced screening features like stochastic screening (Monet

Screens) and transitional screening (SambaFlex Screens). Precalculated screens have only one disadvantage: since they have been designed and tested one by one, there is only a limited number of them available. Although the total number exceeds 2000 different screen ruling/angle/dot shape combinations, it is very well possible that no precalculated screen is close enough to a customer's wish. This happens specifically when other angles than flexo or offset angles are demanded. A typical example is silk screen printing where unusual angles and screen rulings are used to avoid clashes with the silk screen mesh. Esko DynaCell technology was developed particularly for this purpose (see below). The pre-calculated sets are also made to provide maximum protection against moiré. For more information, please check the Screening manual.

• Using *PostScript* screening implies that all the information needed to build up the dots has to be in the PostScript file. Combining PostScript screening and Esko screening in the same file and/or separation is only possible using the optional ScreenFilter application. Please see the documentation on the ScreenFilter for more details.

In every DTP application, you can choose the LPI from the Esko PPD or you can overrule it. Also the print angle will be offered by the PPD but the DTP applications permit you to enter other angles. If you send these data to the RIP, the 'Esko screening' setting will again change these values via its own 'jump-to' mechanism. This means that the RIP will automatically jump to the nearest LPI or angle that is supported. If you do not use 'Esko screening' but 'PostScript screening', these 'special requests' will indeed be realized by the FlexRip.

If you activate PostScript screening, the dot shape should also be described in the PostScript file. If you cannot select dot shapes in your DTP application, then it will probably describe the standard Fogra Round dot shape (see also Esko's Fogra Round).

Why ever use this?

You could for instance use this if you insist on some 'exotic' angle. With exotic we mean an angle which is not standard in flexo/offset. If you need an angle of 3 degrees, then this is the only way to get it in the output file. Then of course you will be limited to the dot types that your DTP application offers you (to write in its PostScript output).

• If the *DynaCell* license is available, this FlexRip option allows the operator to specify any angle or lineature combined with Esko screening. It is particularly useful for screen printing. DynaCell differs from Esko Classic in that it doesn't use sets of precalculated screens. Because of this, DynaCell offers no protection against moiré. Esko Classic screening does, as this screening only allows moiré free combinations of resolutions with LPI and angles.

For more information on DynaCell, please consult the Screening manual.

Note

Because of the nature of Monet screening and SambaFlex screening it will not be

possible to use DynaCell technology with these two screens. If DynaCell is selected together with one of these screens an error will be generated at rip time.

7.4.1.2 Screen Swap Table

Note

The Screen Swap Table option will only be activated if screened data is output. ScreenFilter allows you to define screen swap tables so that when files, containing e.g. PS dot shapes, come into the Esko system the information of the screening is not lost.

- 1. In the Screens part **(**), all detected, but unregistered screens appear. You can register them and use them to define screen swap tables.
- 2. In the Screen Swap Table part *you define screen swap tables, these can be used in other applications, such as Esko PackEdge, Esko Plato, FlexRip, Esko BackStage, ...*

For more information on how to create ScreenFilter rules, please refer to the ScreenFilter documentation.

Note

Selecting (none) creates a FlexRip v5.1 like situation.

7.4.1.3 Pure black overprint

Set the overprint mode for objects containing 100% black only. Possible Pure Black overprint modes are:

- No: no overprint is forced on an object containing 100% black, which means that the situation is as is defined in the job.
- Yes: forces PostScript overprint for objects in 100% black.
- None: the default Queue settings will be consulted.

7.4.1.4 Enable optimization

Should be set to 'Yes'.

Example

Esko's RIP kernel will see to it that the vignette quality is enhanced.

Note

This optimization is not relevant when the vignettes are described as CTs in the PostScript file (as is mostly the case with ArtPro jobs).

7.4.1.5 Preserve Quark trapping

If set to 'Yes', the Preserve Quark trapping option forces the system to keep the trap strokes made by QuarkXpress.

7.4.1.6 Ignore PS color management

Images can be saved in PhotoShop in EPS format using an option 'Use PostScript Color Management'. The result of this operation is that the resulting EPS file contains information that the pixel values are not simply RGB or CMYK but are to be interpreted by the receiver as a CIE-ABC or CIE-DEFG image and that the receiver should reconvert that image to it's own color space using a PostScript CRD.

In most cases this 'Use PostScript color management' option was set by accident and the image retoucher did not intend that his carefully retouched image would be reconverted from 1 color space to another changing all the separations. When this option is off, PostScript color management is applied and the image is run through a CRD, if this option is off the original data is interpreted as deviceRGB or deviceCMYK even if the EPS file specifies that PS color management should be used. Remark that PS color management is always used for Lab images even if this option is switched on.

This means that if this toggle is checked, the color management that would be applied to included PhotoShop EPS images will be ignored.

7.4.2 PDF

7.4.2.1 PDF password

In case you send PDF files that include a password, unlock them by entering the password here.

7.4.2.2 Ignore calibrated color spaces

When this toggle is checked, FlexRip will ignore [CIE based] calibrated color spaces and will replace them by their regular device-independent counterparts.

The color of objects like line art and images can be defined using a calibrated color space. This can happen because the objects already have a color in a calibrated color space before distilling or they can acquire a color in a calibrated color space during distilling process. This is not always intended behavior and the 'Ignore Calibrated Color space' option will ignore the calibrated color space of such objects when converting the file to GRS. A typical example is that when you have black objects in a calibrated color space, you risk to end up with CMY color components if you do not ignore the calibrated color space.

7.4.3 Images

7.4.3.1 Abort for images with scaled resolution below ... dpi

Checking this toggle makes sure a resolution check on incoming images is performed. This option offers you the possibility to get the RIP abort the job if images below a certain minimum resolution are found. The resolution is calculated after scaling (effective when placing the image, including a possible global RIP scaling) and is a very solid quality check before a bad plate or film is made.

7.5 Native Input

When bitmap images are present in the job, they will only be contourized if the output resolution is not equal (or is not a multiple of) the resolution of the bitmap image or if the bitmap image is rotated over an angle that is not a multiple of 90 degrees. In case of correct expose resolution and no rotation the bitmap image will be treated in an optimized way (direct access to the image for direct exposure).

Note

This is only for an EskoLink workflow, using Esko native file formats (PDF, PDFPLA, PDFSTA,...).

Queue Settings: Es	ko Server		<u>? x</u>
Basic Native Input	DCS screene InkPlanner	d output Curve Pilot	Screening Debugging
Native Input Screening:	(none)		•
Images	ages With Scaled F	Resolution Below	dpi
	OK	Cancel	Apply

7.5.1 Screening

Possible settings:

- 1. (none)
- 2. DynaCell
- 3. Esko Classic (precalculated)

DynaCell allows you to use any angle and any LPI at any resolution. See the Screen type (page 54) section in the PS/PDF Input chapter for more information about the different options.

Typically, this option is set to **(none)**.

7.5.2 Abort for images with scaled resolution below... dpi

Checking this toggle makes sure a resolution check on incoming images is performed. This option offers you the possibility to get the RIP abort the job if

images below a certain minimum resolution are found. The resolution is calculated after scaling (effective when placing the image, including a possible global RIP scaling) and is a very solid quality check before a bad output plate or film is made.

7.6 InkPlanner

Select the Plate Settings (.ini) file from the dropdown list. For more information on InkPlanner consult the InkPlanner User Manual.

Queue Settings: E	sko Server		<u>? ×</u>
Basic Native Input	DCS screene InkPlanner	d output Curve Pilot	Screening Debugging
InkPlanner Plate Setting F	ile : (none)		
	OK	Cancel	Apply

7.7 Curve Pilot

The Curve Pilot tab allows you to specify press dot gain compensation, assuming that the plate dot gain compensation will be specified in the FlexRip Configurator, attached to the media selected in the configuration used.

Queue Settings: Es	ko Server		<u>? ×</u>
Basic Native Input	DCS screene InkPlanner	ed output Curve Pilot	Screening Debugging
Press Dot Gain Single Curve Automatic Calibration	Compensation (none) (none)		
Gamma			
	OK	Cancel	Apply

7.7.1 Press dot gain compensation

The Press Dot Gain Compensation group allows you to specify a 'single curve' DGC and/or an 'automatic' compensation strategy from the SCRDGC's, ICPRO's or .PRSYNC's available in the list.

For more information on how to create dot gain compensation files, please see the dedicated Esko Curve Pilot documentation on the Esko Suite 12 DVD.

What if you specify both a dgc (single curve) and a scrdgc or a Strategy/Curve Set (automatic compensation)?

Then the curves are executed in a specific order: first the scrdgc or Strategy/Curve Set, then the dgc. This also happens when e.g. a dgc curve was specified in the Macintosh print menu and a scrdgc curve or a Strategy/Curve Set was set in the Dispatcher's Queue settings. The first one is not executed in the PostScript file but written as a reference in that PostScript file, the same way as a scrdgc or a Strategy/Curve Set selection in these queue settings is also a reference to the rip. Why you have to specify a separate scrdgc/dgc curve or a Strategy/Curve Set is explained by the FlexRip instructor. To a large extent, this depends on your previous and current workflow. The Esko Curve Pilot documentation is a good guideline to help you answer these questions. To get a good idea of what exactly happens when you use both tools, just make a drawing of the 2 curves: put the scrdgc first, the dgc curve next to it and follow what happens to a specific percentage.

7.7.2 Calibration

When the output device is not linear (i.e. 50% does not come out on film/plate as 50%) gamma compensation allows you to correct this.

Please see the specific documentation on how to calibrate your device. It can be found on the Esko Suite 12 DVD: "determine_gamma_english.htm"

7.8 PS/PDF marks

This tab offers you the possibility to have register marks added to the FlexRip output, when using the PostScript channel (AppleTalk, Hot Folder or Named Pipe). It includes a layout mode option for color strips and data legend, options for what should be shown and what shouldn't and an input field where you can enter your own text.

All this can be very important for quality control. E.g. the queue info can be added to the RIP output which will allow you to quickly check if the correct queue was used.

Queue Settings: Hot Folder
Basic DCS screened output Screening PS PDF Input InkPlanner Curve Pilot PS PDF Marks Debugging
Layout mode
Color Strip All Colors
Customer Logo
Browse
Data Legend Options Job Name Date And Time
Queue Info
Text:
OK Cancel <u>Apply</u>

7.8.1 Layout mode

Select how you want your mark to appear: Horizontal, Thin Horizontal, Vertical, Thin Vertical and None. Starting point is the top left corner. The default setting is *Horizontal*.

The height of the standard mark is 13 mm, a thin mark is 6 mm.

7.8.2 Include

7.8.2.1 Color strip

If you want to add a *color strip* to a film, plate or proof, specify what colors you want to include. Select: All colors or Only CMYK. If you do not want to add a color strip, select (none).

7.8.2.2 Customer logo

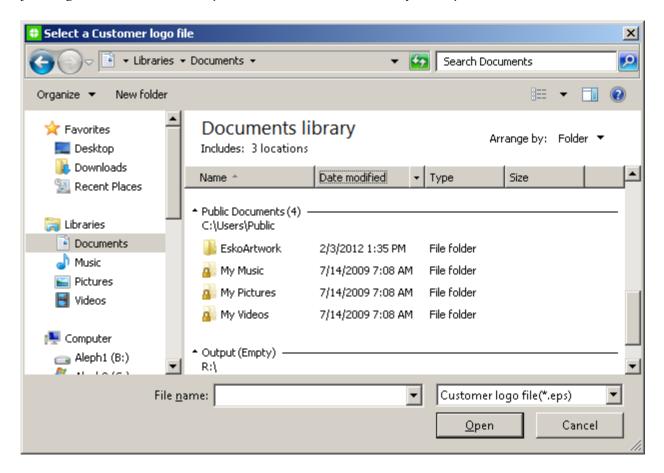
Check the box if you want to add a *customer logo* to the proof. Click the Browse button to open the 'Select a Customer logo file' dialog. Only .eps files can be used as a logo.

Note

Logo marks should be eps files in CMYK or 1 color. An RGB logo will have disappeared after ripping.

Warning

Take your logo mark into consideration when making plates for a one-color job. If your logo contains 4 colors, 4 plates will be created instead of the expected one.



7.8.2.3 Data legend

Check the boxes to indicate which items you want to include in the data legend. Use the text field to enter user-defined text.

Note

There are no requirements concerning the text layout. Be aware that template variables do not work for the data legend field.

7.9 Screening

This tab allows you to overrule screen parameters for each separation. The default option is (none). This means that the RIP will use the screen parameters specified in the job. Change these values only if you want to override the screen parameters specified in the job.

FlexRip offers an elaborate screening overrule mechanism to add more flexibility. It is possible to define spot colors and designer colors with LPI/angle/dot shape information. Moreover, the screening routines have been optimized to give more consistent output. E.g. dots with the same number of pixels will now have an identical shape (within the same dot shape).

Note

In case of PostScript input it serves both composite and separate PostScript. This screening menu should be seen as a filter after reading the input data and before the start of the actual ripping.

eue Settings: H	ot Folder			?
InkPlanner Basic DC9	Curve Pilot	PS PDF Ma Screening		Debugging PDF Input
- Screen Parame		·	, 1.10	fr br mpac
Ink name	Ink book	Dotshape (comp)	Ruling	Angle
ALL-Non-C Black	Designer/P process	(none) (none)	(none) (none)	(none) (none)
Yellow	process	(none)	(none)	(none)
Magenta	process	(none)	(none)	(none)
Cyan	process	(none)	(none)	(none)
Ink book	(Unregistered i	nks)		•
Ink name	(none)			•
Dotshape	(none)			•
Ruling	(none)			
Angle	(none)			•
		Add	0)elete
	40	Car	ncel	Apply

Select the color of which you want to change the settings in the list and apply the changes by selecting the correct Dot Shape, LPI or angle from the dropdown lists.

To define/add individual spot colors:

- 1. In the *Ink book*, select the book you want, or '(Unregistered inks)' if the spot color is not registered in your color database.
- 2. Enter the name of the spot color in the *Ink name* field.

What happens if you do not use these settings?

Then all rules previously mentioned are valid. The angle and ruling settings will be taken from the incoming PS/PDF file. In case of EskoLink input, the settings of the ticket will be taken.

What happens if you do use these settings?

If you select a Dot Shape and/or enter an angle and/or ruling value, the RIP will take these into account and will overrule all other incoming or requested values (overwriting the settings in the PostScript file or server ticket). This means that whatever you enter here will get the highest (overruling) priority!

Warning

Any Dot Shape entered in the Screening tab will overrule the Dot Shape selected in the Basic tab.

When should I use this menu?

When you do not control the incoming options:

- When you did not create the PS/PDF yourself and noticed that it contains ruling settings that are not supported by Esko screening rules.
- When you have a special workflow in which you want a special Dispatcher queue executing a fixed set of screening rules (contrary to a queue that listens to job-related settings).

7.10 Debugging

This tool enables you to control the content of the log files. You can make your log files report basic info or you could have them report all kinds of details on the complete RIP action.

eue Settings: Hot Folder	<u>? ×</u>
Basic DCS screened output Screening InkPlanner Curve Pilot PS PDF Marks	PS PDF Input Debugging
Select the Parameter	Reset All
Debug: Statistics (stat) 9 Debug: Extra profiling (profile) 1 Debug: Exception Handler 0 Debug: Global (t) 0 Debug: Image (imgdebug) 0 Debug: FRIP_CONTROL (ctrldebug) 0 Debug: Get_option (optdebug) 0 Debug: PAGEDEVICE (pagedevice_debug) 0 Debug: Cord Generation (itmdebug) 0 Debug: Device Data (devdatadebug) 0 Debug: Screening (scrdebug) 0	Value 5 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
New Value Debug: Statistics (stat) New Value 5 Minimum Value 0 Maximum Value	5
OK Cancel	Apply

Why is this so interesting?

Extensive log files are very helpful when a problem occurs and you or our Customer Service is looking for an explanation and solution to the problem. Our advice is to always have extensive log files made. The actual log file can be consulted by double-clicking the process number in History View (first column 'job') or can be opened in WordPad or Notepad (standard text editors from Windows).

The log files (per Dispatcher) always reside in the Logging folder. Note that it is possible that the output folder has another name that you specified while configuring the FlexRip. The path listed below is the default path: C:\Esko\bg_data_flexripdcs_v120\dcs\Logging.

To change a debug setting, select the debug option and enter the new value in the input field. The minimum and maximum values are indicated.

Some advised settings:

- *Statistics*: advised setting: 5
- *Extra profiling*: advised setting: 1
- *Expose Ticket* (exptdebug): advised setting: 0
- *Statistics on error*: advised setting: 3. This will provide more info when errors occur.

• *Screening*: advised setting: 0

Warning

The higher the value, the more chance the system generates huge log files.

In the History View (page 75) chapter, you will find some guidelines on how to read log files and in the appendix there is a section that explains some classic errors (page 89).

Reset All: Will reset the debugging parameters to their default settings.

7.11 Copydot Tuning

7.11.1 Background

7.11.1.1 Performance & Memory Management

Lineart Pixel images are contourized in the FlexRip. This is the best solution for simple images (logos etc.) because, by contourizing, the images are handled as other linework. Transforming, clipping, trapping or screening of those images is done the same way linework is processed. This method however, gives problems for huge images containing extremely fine detail like screens. In such cases, contourizing needs a lot of memory, which slows down the FlexRip. To overcome this problem, the FlexRip uses a copydot optimization.

7.11.1.2 Copydot workflow

Copydot images are bitmap images, representing pre-ripped or scanned pages. These images are stored in a bitmap file format (TIFF, DCS, EPS, ..). Most of the time we cannot see the difference with bitmap images representing logos or simple drawings. This makes it rather difficult for the RIP to decide if the bitmap should be contourized or not. In some cases, we can extract that information out of the job. Copydots included in a DCS file are recognized as copydot. Copydots that are manually placed in the job by means of an editor are not recognized as copydot and by consequence, will be contourized.

7.11.1.3 Copydot and paint modes

A bitmap image can be set in 3 different modes:

1. ImageMask

Paint is only applied to black areas. White points are not part of the image. They always leave the background unaltered.

2. Image

Paint is applied to both black and white pixels.

3. Copydot

In paint mode masking, it behaves always as Image. For all other paint modes, the copydot image is bitwise stored into the background.

By default a bitmap image is set to 'ImageMask'. This means that when the paint mode is masking (e.g. opaque ink mode in Esko PackEdge), the bitmap image will always be contourized!

7.11.2 Queue Settings

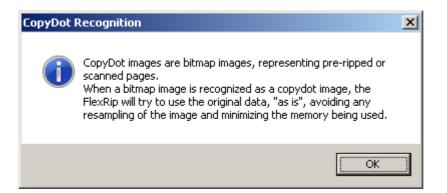
To define or change the RIP copydot recognition, you must check the 'Include Tuning Options' box in the 'Input Queue Settings' of the Dispatcher =Options =Program Options =Input Queue Settings =Copydot Tuning Options.

Dispatcher Program Options	×
FlexRip Log Files	BackStage Server Disk Mounting
🔿 Do Not Create	C Disks are already mounted
 Always Create 	O Dispatcher mounts disks
C Create When Error	
Trace Messages and History	
🔽 Save Dispatcher Messages	
Number of files used : 10 😤	
Maximum number of messages	s in each file: 2000 ∓
Number of entries in History: 5000	
- Input Queue Settings	
🔽 Include Debug Options	Units: inch 💌
Include Tuning Options	
Advanced	
Capture Postscript file	
ОК	Cancel

This will give you four extra tabs in the Dispatcher, one of which is the 'Copydot Tuning' tab.

Queue Settings: Hot Folder
Curve Pilot PS PDF Marks Debugging Contone Tuning Basic DCS unscreened output PS PDF Input InkPlanner LineWork Tuning Memory Tuning CopyDot Tuning
✓ Automatic CopyDot Recognition >> If CopyDot Resolution Does Not Match
Resample If Differing More Than 1 CopyDot Pixel(s)
Abort If Differing More Than CopyDot Pixel(s)
Use CopyDot Preview Preferred Resolution If No Preview Available Abort Revert To CopyDot Itself
OK Cancel Apply

By default the 'Automatic Copydot recognition' is active.



The following 'rules' are used to treat an image as a copydot image:

- A copydot image must be a solid object. A screened bitmap image is never handled as copydot.
- A copydot image has a rather 'high resolution' and is not 'small'. A copydot

image must have at least 1000 rows or columns.

7.11.2.1 Resample

When the RIP treats and image as a copydot image, the following happens:

- 1. With the size of the copydot image (inches, mm, ...) and the requested output resolution the number of resulting output pixels is calculated = X pixels.
- 2. The FlexRip checks the actual number of pixels that are in the copydot image itself = Y pixels.

If the difference between X and Y is higher than the value defined (default 1), then the copydot image will be re-sampled.

In case different copydots images in a job have slight differences in resolution, and you want to keep that resolution, you should set the resample value a bit higher (ex. 10).

Note

However, if the copydot image is set in a masking mode, then the image wil again be contourized.

7.11.2.2 Abort

If the difference between X and Y is higher than the value defined, the RIP will be aborted. When set blank (also the default), the FlexRip will never be aborted.

7.11.2.3 Use Copydot preview (Unscreened only)

If you choose to use a copydot preview, set the following options.

- Enter your *preferred resolution* in pixels per inch.
- If there is *no preview available*, then specify how the RIP should behave:
- Abort.
- Revert to Copydot itself.

8 Status Monitor

Start up the Status Monitor by selecting 'Status Monitor' from the Tools menu in the Dispatcher that you want to monitor. The Status Monitor gives information on the status of the current and past ripping processes.

🐱 Status Monitor For FlexRipD	CS_T4 -> Generic scree	ned output			
<u>S</u> erver <u>H</u> elp					
_ Info					
Rip Name: HEKLA	FlexRipDCS_T4 -> Gene	eric screened outpu	ut		
Status: Connected					
Input Queues:					
Name		Туре	State	KBytes	
FlexRipDCS_Screened_AT		AppleTalk	Fail		
Hot Folder		Hot Folder	Idle Idle		
FlexRipDCS_Screened_NP Esko Server		Named Pipe EskoLink	Idle		
			Tuic		
Processing:					
Rip Process Jobname	Page Status	Total % Sub 3	% ColorGrou	p ColorName	
1 1 Unknown	Preprocessing				
2					
3					
Messages:					
Process Message					
1 Input data channel (IO)					
	PS 7.4.01 (Nov 29 2011))				
1 Identification (FRIP 10.	1.1 (Build 46 - Jun 6 2012))				
1					

8.1 General overview

In the Status Monitor three panes can be distinguished:

- 1. The *upper* pane presents all queues with their type and current status.
- 2. The *middle* pane displays **info** about the 3 RIP channels (2 Esko-native channels and one PostScript channel).
- 3. **Messages** are shown in the *lower* pane of the monitor.

The Rip kernel sends two types of information: messages and info. **Info** data supersedes the previous data, such as the actual page number the RIP is processing. When ripping, the information "page number" starts with 1, becomes 2, etc. When the RIP sends this kind of information, the Dispatcher knows that it can replace the previous value of "page number" with a new value. **Messages**, however, are stored in a list by the Dispatcher. New messages are constantly added to the list. That is why you will see entries like 'processing job' when the job has long been processed already.

For each standard RIP process (or every time the RIP 'wakes up' after an internal error), you will see these 4 different messages (as seen also in above graphic of the Status Monitor window):

- 1. Identification (FRIP 12.0.0 + version date). The software version number and date of the Rip kernel.
- 2. Output identification (output module version number + version date). Shows the type of output module.
- 3. Input data channel (IOSTREAM): Reading the input (PS).
- 4. Processing job (path): Actually ripping, exposing, making output. All following jobs will only show the 'processing job' message.

8.2 Server menu

8.2.1 Connect to

This function allows the monitor to connect to a specific port number on a particular computer running a Dispatcher application. By default the Status Monitor connects to the Dispatcher that started up the application. If connection is to be established with another Dispatcher, possibly on another system, enter the host name and port number and click OK.

Connect To:			×
Hostname:	IEKLA		Ok
Port Number: 3	031		Cancel
Info:			
- Previous conne	ctions		
		Rem	ove from List

8.2.2 Trace messages

Trace information is info created by the Dispatcher each time an important event occurs (a job that is started...). It is used primarily for troubleshooting. Trace files are created by the Dispatcher and viewed in the Status Monitor. They are stored in the Logging folder.

Active: In the Dispatcher user interface it is possible to deactivate tracing. If tracing is not active then the option "Not Active" will be shown. Always leave tracing active. You will only need these trace files when Esko Customer Service asks you to consult or send one.

Note

Trace files can be viewed in text editors. The files contain hexadecimal characters, but WordPad has no problem showing them. You may, however, experience problems when opening trace files in other editors.

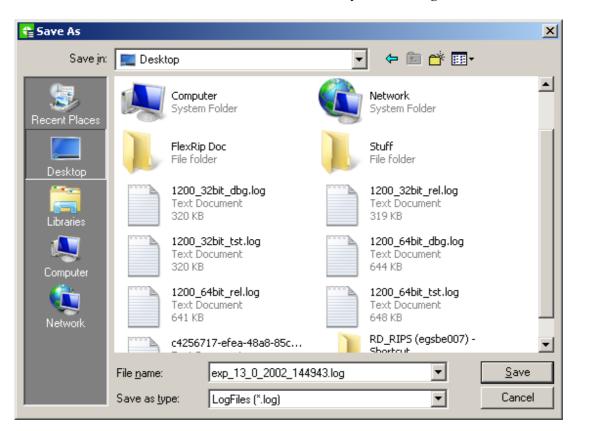
Note

If it is not possible to open a trace file, take a copy of the file and open this copy in a text editor.

9 History View

ob Number	Job Name	Pages	Status	Input	For	Error Info	Logfile	Date Start	Time Start	Elapsed
	Restart_PS_RIP		Success	Connection			Yes	20:06:2012	10:42:15	00:00:12

The History View program keeps track of processed jobs and enables you to consult their log files. The amount of messages in the History View is determined in the Program Options (Dispatcher =Options menu). The list can be emptied by choosing 'Clear History' from the Dispatcher Rip menu, which also deletes the actual log files. History View is a 'client' program of a Dispatcher. It will only show the history list when it is connected to a Dispatcher. When you start up History View, it will connect to the default port number of that Dispatcher. In case you have multiple Dispatchers in your FlexRip configuration, History View will want to know to which Dispatcher it has to connect. Right-click the top window bar of the History View and choose Connect.



'Save As...' in the Server menu will save the currently selected log file.

Number	Job Name	Pages	Status	Input	For	Error Info	Logfile	Date Start	Time Start	Elapsed
	Restart_PS_RIP		Success	Connection			Yes	20:06:2012	10:42:15	00:00:12

Enter the correct Dispatcher port. The History View is now connected to that specific Dispatcher and will only show its specific history. You can now start up another History View and connect it to the other Dispatcher, etc...

Connect			×
Hostname:	HEKLA		OK
PortNumber:	3031		Cancel
Info:	Connection	n to Host	
Previous Cor	nections-		
HostName	Port	Info	
ľ			
			Remove from List

Double-clicking the processed Job Number (left column) opens a view window of the log file that the RIP made of the entire processing of the PostScript file. The log files (per Dispatcher) always reside in the Logging folder. Note that it is possible that the output folder has another name that you specified while configuring the FlexRip. The path listed below is the default path.

E.g.: C:\Esko\bg_data_flexripdcs_v120\dcs\Logging.

Note

Log files are text files so they can be viewed with standard Windows text editors like NotePad and WordPad. These offer search functionality, which is convenient when looking for specific info in these (possibly huge) log files.

otal number of lines in	n file: 150 Logfile shown from line: 1	
*** Localini fi	lle: D:\Esko\bg_data_flexripdcs_vl20\DCS\tmp\localini_0.ini ***	-
******	***************************************	
[setup]		
fripout=	fripout_eps	-
outdir= "D:\Esk	co\bg_data_flexripdcs_vl20\dcs\Tmp"	
bps= l		
ocompress=	lzw	
alloc= syncswa		
rd_b_makecompos	site= 1	
rd_vmlimit=	128	
rd_substitutefo	nt= "FontNotFound"	
fripextl=	fripext_dcs2	
fripext2=		
fripodlpipel=	"odlfrippipe.dll,ODL_TFripPsmarkPipe"	
LAYOUTMODE =	0	
COLORSTRIP=	1	
DATALEGEND=	1	
D_DATETIME=	1	
D_JOBNAME=	1	
D_QUEUEINFO=	1	
		-
4		ы

The appendix of this document contains a more detailed explanation of possible errors that can be described in log files. The contents of the log file can be managed with the debug options in the Queue settings (see the Debugging (page 66) chapter). The next section will help you to read log files.

9.1 Log files: guidelines

When opening a log file, the *local INI* file is the first thing you see. But except for that, the log file is also extended with the *set of environment variables* that were used when ripping (those set up by the server, if any, and the ones specified in the FlexRip Configurator), and an indication of the *dispatcher queue* that was used to process the job. All this should make it easier for our Customer Service to determine the problem and for you to supply the required info to our Customer Service.

• What dot / LPI / angle did the RIP really take?

You will find this screening information by searching for these words: 'BG screen'

'Sampled Screen'

'lin'

In a PostScript workflow, the log file might first show some incorrect LPI and angle information, depending on the application and your debug settings (Typical are the offset settings of LPI 120 and angle 45). What you see here is the search order that the RIP is following. It starts with the default offset settings and then looks in the PostScript file to see what the correct values are.

The RIP will take the requested PostScript file screening settings and the log

file will show them. Use the following rule to check the correct dot, LPI and angle settings: the last time the screen info is mentioned just before the actual ripping starts ('start expose'). The screening settings shown there will be used to create the output file.

- When printing from Freehand, you can also search for 'Application' (and the next line will contain the really used screen settings).
 'Sample Screen'
 The first appearance is e.g. the fake default LPI of 120, but just continue to search. Usually, the third one already shows a change and you will see the actual 'lin' (lineature/ruling) taken by the RIP.
- Output folder: search for the word outdir'
- **Output name** (name of the output file): search for the word 'output' (at least in one of the expose ticket tables.)
- Rip version: search for following words: I_CTRL_FI Identification (e.g. FRIP 12.0.0)
 I_CTRL_OI Output Identification (e.g. TIFF MONO 12.0 02 (month day year))
 The FRIP version is the version of the 'FlexRip kernel' (the base).
- Font replacement: search for the words: 'Not found', using (then you will find): I_OSTREAM_BB Byte Buffer Dump 'fontname' not found, using Courier...

• How many colors, separations, files were made?

'start expose': Shows the time indication of each new file that is written. 'Progressline': Shows the actual ripping moment + progress info per inch. 'I_CTRL_PN' and 'page number': Shows the number of PostScript pages that the RIP is looking for.

Every log file will show this error at the end:

W_CTRL Warning: 'No data in output'

W_CTRL Warning: endpage (FALSE), page discarded

This simply means that there are no more separations described in that job, so immediately after this warning the RIP will end processing that file.

10 Workflow: flavors and hints

10.1 Who decides: FlexRip or the operator?

You will have noticed that there are several ways to work with FlexRip (See the Priority of Settings (page 44) chapter).

- Some people want FlexRip to decide settings and even overrule the ones that the operator chose. This is often referred to as the 'fail-safe' method to avoid mistakes from operators.
- Some, however, do not want FlexRip to take any decisions, but want it to keep all the settings the operator set in the PostScript file, or in the ticket in case of an Esko native workflow. This could be referred to as "All Power to the Operator" method.
- Settings that are not answered by the Dispatcher or ticket/PostScript file are taken from the Queue Defaults.

The decision is completely up to the customer. The difference between these choices is visualized by the use of the priority of RIP settings and the amount of Dispatcher queues. If queues take hard decisions, then their names better reflect what they do.

10.2 What is best: AppleTalk or Hot Folders?

As AppleTalk is no longer supported from Mac OS X 10.6 (Snow Leopard) onwards, Hot Folders is the remaining choice.

10.3 Emulsion: up or down, positive or negative?

An advantage of the FlexRip mechanism is that it can be tuned to everyone's desires. You can make it listen to settings or you can make it 'correct' possible errors in incoming settings. Just because this is possible, we have some extra advice on what happens when multiple settings seem to conflict (= 'where they do not follow the described priority').

We explained that the FlexRip Dispatcher settings have the highest priority. They will overrule all others coming in. Unfortunately, there are some exceptions as mentioned before in the section Queue Settings Basic (page 45). These remarks are only about the basic settings 'Image' and 'Emulsion'. All other settings have the general behavior as described in the section Priority of settings (page 44).

The initial problem here is that the FlexRip Dispatcher has to live with the rules of the 'PostScript' language and that this general language is being written from

several sources/DTP applications. This means that we have 3 parties involved: The DTP application, the PostScript file and the FlexRip.

In the following schemes, we will explain what happens if you tried out all the interactions of the possible settings. Each scheme ends with a general rule: use those rules to set up your fixed workflow. Do not trouble all DTP operators with the jungle of possibilities in the settings.

The following situation can cause confusion. When choosing Print in Freehand (or any DTP application), you can always set the emulsion up or down in the Freehand print settings. Further down in the print options (you selected an Esko device PPD), there are the 'Printer Specific' settings of the output device where you can also select an emulsion setting (and there is no 'none' to choose). The result of these two settings will eventually end up in the written PostScript file. It is this setting that is then taken into account or overruled by the Dispatcher Queue settings.

A first scheme now describes what happens between application and PPD choice. A second scheme describes the interaction between the PostScript file and the Dispatcher Queue settings.

10.3.1 Print from DTP: Application print versus PPD settings

	What e	What end up in the PostScript file							
	Application Print setting	Printer Specific Setting from Dispatcher Queue PPD Setting on <none></none>	Result: bitmap file in Esko Bitmap Viewer						
Image	Pos	Pos	Pos						
	Pos	Neg	Neg						
	Neg	Pos	NEG!						
	Neg	Neg	POS!						
Emulsion	Up	Up/right	Up						
	Up	Down/wrong	Down						
	Down	Up/right	DOWN!						
	Down	Down/wrong	UP!						
	Down	Down/wrong	UP!						

Conclusion: to avoid any confusion, always leave the application settings to Pos and Up, then set what you really want in the PPD.

Workflow: flavors and hints

10.3.2 On FlexRip: PostScript file versus Dispatcher — Queue Settings

	How do the Dispatcher Queue settings affect the settings in the PostScript file							
	ttings in the stScript file	Dispatcher Queue Settings	Result: bitmap file in Esko Bitmap Viewer					
lmage	Pos	None Pos Neg	Pos Pos Neg					
	Neg	None Pos Neg	Neg Pos Neg					
Emulsion	Up	None Up Down	Up Up Down					
	Down	None Up Down	Down Up Down					
	nclusion: Dis the PostScrip	patcher Queue Settings t file	s overrule the settings					

10.4 What if you rip for more than one output device?

If you have more than one output device that you want to send FlexRip output files to, you need more than one Dispatcher. Each Dispatcher is configured to serve one specific machine.

11 Screening on FlexRip (screened only)

For complete and detailed info on Esko Screening, we refer to the screening documentation on the Esko Suite 12 DVD.

In case of 'Precalculated' screening (native as well as PostScript input), the following should be considered:

The 'jump to' mechanism

The range of possible LPI's that the PPDs offer is a selection. The FlexRip will jump to the nearest LPI value that it has available. So if you ask 100 LPI and the RIP offers 94 and 104, you will get 104 LPI. Do remember that you cannot combine precalculated screening with DynaCell or PostScript screening. If you want another print angle or LPI than Esko offers, you can no longer combine it with an Esko dot shape.

Please refer to the Screening tab for more information on overruling. See the ScreenFilter documentation on the Esko Suite 12 DVD for information on how to swap PostScript screens with Esko screens.

12 Esko Curve Pilot: Esko's Dot Gain Compensation tool

This section merely serves as an introduction. For more detailed information we refer to the Esko Curve Pilot documentation on your Esko Suite 12 DVD.

12.1 Terminology

- A DGC file stands for Dot Gain Compensation file. It is a curve.
- A DGC Strategy (*.icpro) is a set of curves. One of the included curves will be chosen depending on specific a screen ruling, dot, angle or ink (separation).
- A SCRDGC (Screen Based DGC) is a former set of curves. They can still be used, however, Esko Curve Pilot 12.0 will not create SCRDGC's anymore.

12.2 Basic explanation and general workflow

The high dot gain of e.g. the flexo printing process results in the need for compensation curves. With these curves, the imaged data are lighter, so the printed result is closer to the intended densities.

Esko prefers compensation curves to be executed in the RIP, since a fully digital workflow has many advantages:

- All data are print-process independent (same image for offset and flexo output).
- Digital tools can be trusted and are 100 % repeatable.
- Time gain.

A CtP (Computer to Plate) workflow will use different compensation curves than a CtF (Computer to Film). All the physical 'problems' with films and the 'film to plate' copy do no longer exist.

Example

The dot gain of digital flexo (CDI) approaches or even matches the Offset dot gain.

The main effect of the CtP workflow is the quality of the plate: dots are sharper (and stronger). This also results in very specific compensation curves.

Another reason for using curves is because of the nature of the printing process, but depends on your workflow.

If you work with '**independent**' data (i.e. your data are not, or only slightly, retouched for specific printing process reasons), then you will have to specify a flexo/offset compensation curve that will take care of the dot gain of the flexo/offset process. Again, this one may be general (DGC: one curve for all separations) or a specific one (Strategy: set of DGC's per dot/lpi/angle). These press curves will not be similar to curves that are used for conventional plates that were made through film contact! (Difference is less apparent for offset processes).

You also have a tool called '**target**'. In general, all curves can again be compensated with a 'target'. Adding these curves to (inside) an existing curve means: "Let's not forget that at image scanning time and while looking at monitors, we were already in an offset-Cromalin/WaterProof environment that was precompensated for offset". You might have the approval this flexo job based on an analogue Cromalin/WaterProof that shows offset dot-gain. If then you want the flexo print result to look like that Cromalin/WaterProof, you should deduct that offset gain from the one happening on the flexo press! That deduction is done by using that target (or reference) curve inside your flexo press dgc. What is then left over is the difference between flexo and offset dot gain.

Depending on the entire printing, the press compensation curves that are used to adapt the output files for a device will vary.

Advanced DGC requirements such as color based DGC strategies, are best handled in Esko Curve Pilot (optional).

How do you make your DGC and ICPRO files?

Here's a short overview:

- 1. Output test jobs (strips) without any compensation curves.
- 2. Print on press in typical conditions.
- 3. Measure results (percentages / densities).
- 4. Fill in data in Esko Curve Pilot.
- 5. Output test jobs again now with the compensation curves you made.
- 6. Print on press in typical conditions. The result should reflect the digital construction of the job.

12.3 Where are my SCR(DGC) files and Strategies?

Esko Curve Pilot can be installed on the FlexRip or Automation Engine, but it is also possible to install it on other PCs.

If you have a server, all (scr)dgc files and Strategies will be located on the server. If you do not, they are stored locally on the FlexRip.

Make sure that:

- 1. the editors know where to find and write the curves.
- 2. the RIP (=Dispatchers) know where to find them.

On a new, non-customized FlexRip, the dgc files and Strategies are standard on C:\Esko\bg_data_dgc_v010

The target curve(s) are in a subfolder 'refdgc': C:\Esko\bg_data_dgc_v010\refdgc

More information on how to install the Esko Curve Pilot, please refer to the Esko Curve Pilot documentation on the Esko Suite 12 DVD.

Tip

Always keep a backup copy of your curves, you do not want to loose all the work you put in there. Even a floppy disk could contain all your curves.

12.4 Using old DGC files

If you have DGC files from a FastLane v9.4 system or even older, you can continue using these DGC files on the FlexRip.

Best results are obtained after having loaded and saved the DGC files into Esko Curve Pilot. This will improve the quality and smoothness of the curve. We refer to the appendices in the Esko Curve Pilot manual on the Esko Suite 12 DVD for more elaborate information.

13 Data backup and customization

A working FlexRip contains the standard FlexRip software that was configured to the customer's specific devices and workflow (Dispatcher Queues: their type, amount, names and their settings). This configuration results in small files that are very typical per customer. Configuration files are backed up by the FlexRip Configurator. Please refer to the Configurator documentation for more information on backing up configuration files.

The FlexRip contains output files. We see that some customers back up their output files and some do not. This depends very much on other archiving methods in the workflow. How you back up all these data is your decision. Your system manager should advise the workflow responsible what devices and procedures are available with this Windows2003 computer. You could copy data to another disk to avoid loss in case of hard disk problems. You could share a part of the FlexRip hard disks and copy the data to another computer that has a CD writer (or optical disks or...). Some more advice though:

Back up your DGC data

Copy your DGC files to the backup folder you made on your data disk or copy them all to an external disk. Do this regularly.

Warning

Never put a (any kind of) file that was on a CD or a DVD on a FlexRip Hot Folder. A file that comes from a CD or DVD-ROM is R.O.: Read Only! This means that after ripping the file, the RIP will not be able to delete the file and will rip it over and over again until the hard disk where your output folder is situated, is completely filled up.

14 Classic errors and their explanation

The History View program will show if a RIP action was completed successfully or if it encountered an error. Error Info usually concerns 'Internal Errors' or 'PostScript Errors'. As said before, a warning in a FlexRip log file is not always an error, but still it will appear in the log file.

For instance, in some log files, you will see the following warning a number of times:

W_DATA Warning: Output resolution not integer...
This is completely normal. Since the effective PPI has to be an 'integer' number, the RIP will change your resolution in background just a little bit, e.g. from 2104.9 to 2105 ppi.

Another warning that appears in every log file (at the end) is

W_CTRLWarning: No data in output!W_CTRLWarning: endpage(FALSE), page discardedI_TCTGEN_INFOno Contone data Processed.

This all means that the PostScript Interpreter is looking for the next color ('page') but does not find any. It indicates that there are no more separations described in the PostScript file and that all pages (=inks =separations) have been ripped.

You should in fact only be alarmed if you do not see the word 'Success' in the Status column of the History View.

- **PostScript errors** are encountered by the FlexRip's PostScript Interpreter. This could be e.g. because the PostScript file is not complete, because it contains inappropriate PostScript commands for the FlexRip ("dirty PostScript"), or because the FlexRip does not understand the commands.
- Internal errors have to do with the general working of the FlexRip or with the status of the RIP itself. If someone, during a RIP action, closes the Dispatcher or chooses the 'Abort job' function, you are bound to get this kind of error. You will also get an internal error if the RIP is asked to do things it cannot do. An example: the PostScript file might be read without problems, but it asks the RIP to execute a DGC curve that does not exist or to output the e.g. LEN or TIFF file to a folder that was deleted. Both of these operator mistakes will cause internal errors.

Warning

Double-clicking the job number in the History View will show you the log file in an

internal window. You may find it much more practical to read large log files when you open them in a simple standard text editor (with a search function!) that Windows offers like 'NotePad' or 'WordPad'.

What follows is a list of some typical errors and the way they are described in the log file. An error is always first described with a code, followed by some more or less 'readable' explanation.

ExampleExample of such a code: $'E_DGCNAM_IE'$:E = Error (I = Info; W = Warning)DGCNAM = something wrong with the name of the dgc fileIE = It is an Internal Error

These codes are very valuable for our Customer Service, so do mention them too when reporting problems.

14.1 Classic PostScript errors

14.1.1 Examples

• General warning

E_CONTROL_PE PostScript error occurred (parser warning: PS error happened) This is a standard line for most PostScript errors, and will be preceded or followed by a more specific message.

• Rip was stopped during reading of the PostScript file

W_CTRL Warning: FastRip cancelled

This indicates that something interrupted the RIP. It was suddenly stopped and the PostScript file could not be read anymore.

To check: Did someone choose 'Abort Job' from the Dispatcher's Server menu? Did someone close the Dispatcher program or even shut down the FlexRip?

See to it that the RIP is started and just try to send the job again. It is possible that you do not have to restart the Dispatcher, because the RIP normally restarts automatically when any Queue or Hot Folder receives a new PostScript file.

• 'Illegal' dot types in PostScript

If you input from ArtPro, you might find following error in the log file and similar 'Error Info' in the History View:

I_OSTREAM_PEMSG %%[*Error: rangecheck: Offending Command: set halftone;ErrorInfo: Halftonetype* 95]%%

In ArtPro it is possible to select a non-standard dot (in the 'Separations' menu). These dot types for a Nexus RIP should not be allowed in PostScript

code that is not made for such a RIP. Please see the Printing documentation (chapter 'Remark on printing from ArtPro).

Solution: Overruling the dot in the Dispatcher's Queue settings does not help. As said before, the job has to be printed again from ArtPro and a standard PostScript dot (top part of list) or no dot has to be selected in the menu 'separations'. Then the PostScript file will be fully readable and the RIP will continue to see what Esko dot has to be used in the end. Using ScreenFilter is another option. If multiple dots are defined in ArtPro

you will need the ScreenFilter to handle these jobs. ScreenFilter will capture the screening info and will allow you to define swap tables for incoming screens.

For more information, please refer to the ScreenFilter documentation on the Esko Suite 12 DVD. There's even a third solution to overcome this problem. You can rewrite the PostScript file in ArtPro using PS screening instead of Nexus screening. The PS screening of ArtPro will work if you switch to "PostScript screening" in the FlexRip Dispatcher. All dots as described in the PS file will then be correctly output.

• Ink name descriptions

W_CLASS Warning: Multiple invocations of PLATECOLOR on this

Page

Meaning: Output file names always get a suffix based on the ink name description in the PostScript file. This official description of the separation name is the command 'PlateColor'. If the RIP finds (in 1 page, so within the same separation) multiple descriptions of this ink, it will give this warning. The warning indicates that this behavior is not standard, but does not have to be a problem.

• Font not available

When a font is not included in the PostScript file, and not available in the RIP itself, the following error messages will be displayed: *I_OSTREAM_BB* Byte Buffer Dump (length: 46 bytes)
TextileRegular not found, using FontNotFound.. *I_OSTREAM_BB* Byte Buffer Dump (length: 55 bytes)
%%[Error: invalidfont; OffendingCommand: findfont]%%. *I_CONTROL_INFO* Parser info: %%[Error: invalidfont; OffendingCommand: findfont]%% I_OSTREAM_BB Byte Buffer Dump (length: 63 bytes)
%%[Flushing: rest of job (to end-of-file) will be ignored]%%. *I_CONTROL_INFO* Parser info: %%[Flushing: rest of job (to end-of-file) will be ignored]%% *E_CONTROL_PE* PostScript error occurred (Parser warning: PS error happened)

14.1.2 Problem solving: 'capture' the PS file

If there is some mysterious problem with reading a PostScript file, and all other obvious rules have been checked, then our Customer Service may ask you to

provide us the 'Captured PostScript file'. This is a text file that includes the PostScript file itself plus a lot of other relevant data. So a 'captured PostScript file' is not just the PostScript file that was intercepted, it is more than that.

How to 'capture' a problem file?

- 1. Try to reproduce the problem with a small PS file (less data? only one separation?)
- 2. Wait until all Dispatcher queues are in idle status.
- 3. Enable the 'Capture PostScript file' in the Program Options of the Options menu in the Dispatcher and confirm with OK.
- 4. Have the problematic Postscript file ripped again and wait until the error shows up again. This time the PostScript file was also 'captured' in a temp folder.
- 5. The captured Postscript file will be called ps_trace_1.txt and can be found in the Tmp folder. Note that it is possible that the output folder has another name that you specified while configuring the FlexRip. The path listed below is the default path.

C:\Esko\bg_data_flexripdcs_v120\dcs\Tmp Now deliver this .txt file to our Customer Service.

6. Do not forget to switch off the 'capturing' afterwards! So disable the 'Capture PostScript file' in the Program Options of the Options menu in the Dispatcher and confirm with OK.

14.2 Classic internal errors

• Screen not found

E_SCRSEL_IE Internal error (Screen file xxx not found...) Meaning: The screen file (.isb or .csb file) you requested was not found. A screen file is an area of dots of 1 type, 1 angle, 1 size (lpi) and 1 resolution (ppi).

Example

the screen file f8205c.isb represents:

- *f: flexo angles*
- 82: angle 82
- 05: *number of resolution set of that type*
- *c*: *circular dot*

Check if that dot is available on your FlexRip. If it is not purchased, it will not

be in the central folder for the 'screen files':

C:\Esko\bg_data_screens_v010 Is the angle you requested a flexo angle? If not, the RIP will look for an Offset screen file and those have a name starting with an 'o'.

• (Scr)dgc files not found

E_SCRSEL_IE indicates that the RIP has trouble reading the DGC file.

72 D77	Job name (d:\esko-graphics\bg_data_flexripdcs_vUl2\unscreened\ tmp\localini 0.ini)
I CB INFO	Extension identification: Antialias V5.1.02 (Nov 22 2003)
I_CB_INFO	FRip/IPL: Extension identification: INKPLANNER V2.0.01 (Nov 22 2003)
I CB INFO	Extension identification: FRIPOUTUTIL V5.2.38 (Nov 22 2003)
ICBINFO	Extension identification: DCS V5.2.01 (Nov 22 2003)
I CTRL OI	Output identification (EPS V5.2.02 (Nov 22 2003))
I_DEF_INFO	Using default INI file d:\esko-graphics\bg_data_flexripdcs_v01 2\unscreened\data\default out dcs.ini!
I_SCRSEL_INFO	ICPro Courve library returned error with type 2 message : Coul d not open "\\proof\bg_data_dgc_v010\40w0.dgc" for reading
I_SCRSEL_INFO	ICPro Courve library returned error with type 2 message : Coul d not load bytestream of file "40w0.dgc"
I_SCRSEL_INFO	ICPro Courve library returned error with type 2 message : Coul d not initialize curve resource "40w0.dgc"
E_SCRSEL_IE	Internal error (DGC file read problem (File .\fripscrsel.c lin e 602 dd Nov 22 2003))
DEBUG : Number	of objects in the process link factory : 90
	of objects in the process factory : 45

This means that the FlexRip is not able to read the (scr)dgc file specified, because:

- the share could not be reached.
- the file is not present.
- the file is corrupt.

Perform the necessary checks to verify if the DGC file is present and opens correctly.

• Problems with writing the actual output file

E_CB_IE Cannot create output file(s) ...

E_CTRL_CCF Cannot create file (fripout(5): E_openfile)

Meaning: The RIP would like to, but just cannot create a plate file or the original output file. The output directory will be created when necessary. Check the Queue settings to see where the RIP wants to write that output file.

Or in case of:

E_DEVCOM Output Device communication Error

Check if the hard disk (the one where the output folder is) still has space left to write the output file? The hard disk may be filling up. If so, clean up and delete some files or re-direct the output to a folder on another disk.

15 General troubleshooting

15.1 Queue settings 'disappear'

My Dispatcher Queue Settings seem to disappear...

Although this is not known as a bug in the FlexRip software, we would like to comment on that. If you notice that queue settings get 'lost', then this is not a problem in the FlexRip software itself, but in what surrounds this software. So please look for the problem in the 'environment'.

When you click OK after checking or changing Dispatcher Queue Settings, a small .usr file is adapted. This .usr file (as all your specific settings of your Dispatcher) is in: C:\Esko\bg_data_flexripdcs_v120\dcs\Data

The date and time of these files indicate when the Queue settings have been changed. When that C drive is full, the RIP will have problems accessing and writing those .usr files. So do check if your system drive is full and certainly why it was full. Make sure that all your Hot Folders (large incoming PostScript files) or output folders (where the CT files are written) are on your Data drive. Also check whether or not your Hot Folders (Queue Info) delete the PostScript data after ripping. Make sure that they do.

15.2 My input queue shows a 'fail' status

The AppleTalk queue is not automatically put in the 'idle' status.

If an item is not working because certain elements are not installed, the Dispatcher will go into a "fail" status.

In this case the AppleTalk services are not running. Activate the AppleTalk services and open the Dispatcher again.

FlexRipDCS_Screened Dispat	tcher			<u> </u>
<u>Rip Options T</u> ools <u>I</u> nfo				
•		Connec	ted Monitors:	0
Input Queues				
Name	Туре	State	KBytes	
FlexRipDCS_Screened_AT	AppleTalk	Fail		
Hot Folder	Hot Folder	Idle		
FlexRipDCS_Screened_NP	Named Pipe	Idle		
Esko Server	EskoLink	Idle		
New Queue	Info De	elete	Queue Settir	ngs

15.3 The system disk is filling up

Why is my C drive so full?

If your C drive is filling up and you have no idea why, then check the contents of the Tmp subdirectory of the data tree of the FlexRip flavor. If you see files with strange names like 'stream_cdlclass57628_6234' (always begins with stream_cdlclass, then one or two numbers and no extension), then these may be remains of a PDF file that has not been ripped successfully. Before ripping a PDF file, it is first converted to PostScript. The temporary PostScript files that are generated are stored in the bg_tmp directory and will be deleted after ripping. However, if the RIP ends with an internal error during ripping (crash, read only PDF file from a CD...), it will stop but it will NOT delete these temporary files. In this case, you'd better delete them yourself. Keep at least one to show at Esko Customer Service.

15.4 FlexRip rips my file over and over again

I can't stop the RIP from ripping a certain job over and over again.

This is what happens when you have put a read-only file on a Hot Folder. The RIP will try to delete it after the ripping but it can't, since this requires writing permission. Solve this by stopping the Dispatcher (so 'abort job' is not enough!), deleting the read-only file, and deleting all the unnecessary output files it created. Restart the Dispatcher.

General troubleshooting

16 Frequently Asked Questions

16.1 FlexRip software version

What version of FlexRip software do I have?

The software version can be found in every log file. You'll first see the ini file, then the environment variables en below that, the software version will be mentioned.

16.2 Extra software on the FlexRip

Can I install some extra software on my FlexRip?

No, unless approved by Esko. Whenever you add, remove or reconfigure of software on your FlexRip should be requested and reported to Esko Customer Service. In general, upgrading any of the software that is already installed (Windows, modem software, DiskShare) has to be reported and requested. Installing additional new software will probably be forbidden. Any request will be considered though. Send this request to the Customer Service department.

16.3 FlexRip and output device controller on the same computer

Can I put FlexRip software on the output device controller box or vice versa?

In theory you could, but this could seriously trouble your workflow. A multiple CPU PC might permit the setup (by Esko) of a working workflow.

Please consult your Customer Service department to investigate this for you.

16.4 Screensaver

Can I use a screensaver on my FlexRip?

No. Even screensavers use CPU activity and all CPU on a FlexRip should be dedicated the RIP itself. When a FlexRip is well configured, it should be quietly doing its RIP work all day. Nobody should change any Queue settings or monitor or read log files. This means it would even be logical to switch the monitor off.

16.5 Windows version

What version of Windows do I have?

In Explorer, choose 'About Windows' from the 'Help' menu and you will get an exact description of your version of Windows on the second line.



16.6 Rebooting the FlexRip

Should I reboot the FlexRip occasionally?

Yes. We have experienced that this WindowsNT-driven computer likes a 'shower' every week. It will free up some hanging memory and therefore be a little faster afterwards. Please do this occasionally, even when you would not even notice any loss of speed.

16.7 FlexRip's computer name

What is the name of my FlexRip?

If in doubt: open a command prompt window (Start =Programs =Command Prompt) and type: set computername. This will show the actual computer name and more network information. This name is set by Esko. Do not change it. When still desired, contact Esko first.

16.8 Info on the network address

TCP/IP info:

If in doubt: open a command prompt window (Start =Programs =Command Prompt) and type *ipconfig/all*. This will list all necessary info on the TCP/IP configuration of this machine.

16.9 DCS files in PhotoShop

Why can I not open the DCS files made by FlexRip in PhotoShop?

This is normal as none of the compression schemes used in FlexRip (Group4, LZW and Flate) are supported in PhotoShop. These compression schemes are supported in PhotoShop for TIFF files, but not for DCS-EPS files. For DCS-EPS files, PhotoShop only supports Jpeg compression, which is a lossy compression type that is not suited for FlexRip purposes. Non-compressed, unscreened FlexRip/DCS files can be opened in PhotoShop provided the image does not exceed the 30000 pixel limit horizontally or vertically.

Non-compressed, multichannel screened FlexRip/DCS files cannot be opened in PhotoShop but when you have the multifile DCS version (i.e. one masterfile + one separate file per separation - this is selectable in FlexRip), you can open the individual plates in PhotoShop provided that the image does not exceed the 30000 pixel limit horizontally or vertically. Failure to meet these conditions might result in PhotoShop loading the low resolution preview (if there is one present) stored in the master part of the DCS file without warning.

16.10 Digital Cromalin/WaterProof settings

What settings should I use for a Digital Cromalin/WaterProof?

Two configurations are possible:

- 1. FlexRip/DCS writes to an output folder on a local disk (See Output location (page 49)).
- 2. FlexRip/DCS writes directly to a Hot Folder of the Digital Cromalin/WaterProof. (See Printing DCS files on a Digital Cromalin/WaterProof (page 101)

In both cases the settings should be as follows:

- 1. Choose a single DCS file.
- 2. Switch off all previews.
- 3. Choose a resolution that corresponds with your device (305dpi, or 610 dpi).

Queue Settings: Hot Folder
Curve Pilot PS PDF Marks Debugging Contone Tuning LineWork Tuning Memory Tuning CopyDot Tuning Basic DCS unscreened output PS PDF Input InkPlanner
Location & Name Output Location D:\output\dcs_unscreened\ Browse
Output File Name
Configuration Set Name (none)
Properties Single / Multiple File Single Compression Algorithm Lempel-Zif-Welch (LZW) Antialias (none)
Previews Placement Only No Resolution (none) Proofable Preview No Resolution (none)
OK Cancel Apply

16.11 Printing DCS files on a Digital Cromalin/WaterProof

How are DCS files printed on a Digital Cromalin/WaterProof?

FlexRip/DCS writes to an output folder on a local disk (See Output location (page 49)). The DuPont software will pick up the output file(s) from the output using FTP. This FTP program transfers the output file(s) to a Hot Folder on the SUN, which controls the proofer. Once the file(s) has/have been transferred, they will be processed and proofed. Please contact Dupont to set up this transfer.

Warning The FTP transfer program is standard only from version 5.0.3 onwards.

- 2. FlexRip/DCS writes directly to a Hot Folder of the Digital Cromalin/WaterProof. FlexRip/DCS can write directly on the SUN, provided the hard disk is mounted on the FlexRip (via "Map Network drive"). The disk can only be mounted if the Samba software (enabling the connection between UNIX and Windows) is installed on the SUN. The following Hot Folder can be used: /stork/gateways/import_dd. Please contact Dupont to set up this configuration.
- 3. In an Automation Engine environment, FlexRip/DCS writes to an output folder or a local disk and Automation Engine FTPs the file to the SUN computer.

16.12 Changing extensions of external files

How do I change the extension of an external file?

The extension of external files is the short ink name of the ink they represent. In case of Pantone, the Pantone number will be mentioned, and designer inks will be represented as a D, followed by the designer ink name. It is, however, possible to change the extension of an external file by setting up the environment variable FLEXRIPDCS_PLATEFILE_EXTENSION in the FlexRip Configurator. Enter the new extension (e.g. .tmpeps) as value for the environment variable.

17 Appendix

17.1 Connection to DTP stations

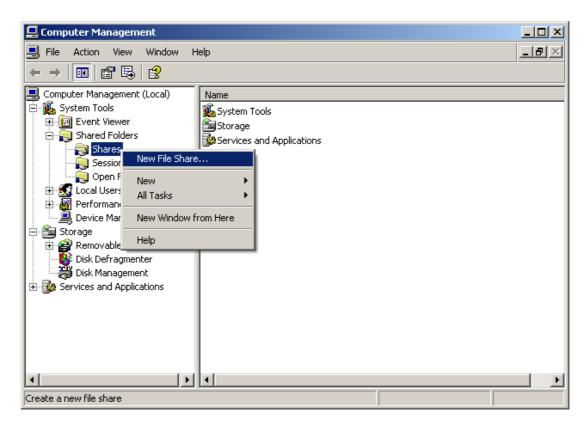
17.1.1 How to share FlexRip volumes for a Macintosh (Microsoft Windows 2000 or 2003 Server)

Windows 2000 Server

1. Right click "My Computer" and select "Manage".



2. Go to "Shared Folders" = Shares and select "New File Share..."



3. Select the folder or drive and fill in the share name. Do not forget to take the naming policy into account.

Create Shared Folder	×					
	Computer: BACKSTAGE1 Folder to share: C:\customers_A_E Share name: customersAE Share description: customersAE Macintosh share name: customersAE Accessible from the following clients:					
	< Back. Next > Cancel					

4. The next dialog allows you to set the permissions. Keep the default selection (All users have full control).

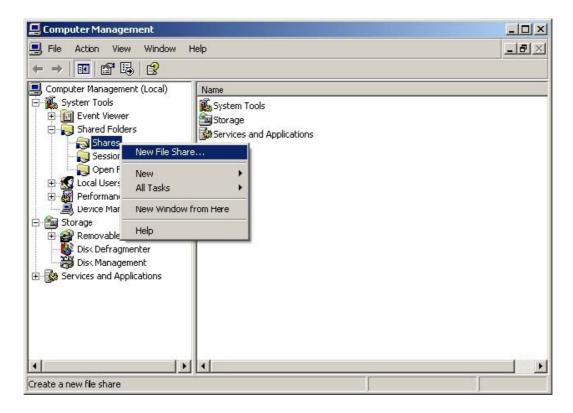


Windows 2003 Server

1. Right click "My Computer" and select "Manage".



2. Go to "Shared Folders" = Shares and select "New File Share..."



3. Browse to the folder you want to use as a share.

Share a Folder Wizard		×
Folder Path Specify the path t	o the folder you want to share.	
<u>C</u> omputer name:	RDALPHA07	
Type the path to the fo folder.	lder you want to share, or click Browse to pick the	e folder or add a new
<u>F</u> older path:	C:\customersAE	Br <u>o</u> wse
Example:	C:\Docs\Public	
	< <u>B</u> ack <u>N</u> e	xt > Cancel

4. Define the share settings.

Share a Folder Wizard		×
Name, Description, and Settings Specify how people see and use this share over the network.		Ŋ
Type information about click Change.	the share for users. To modify how people use the content while offline,	
Microsoft Windows	users	
<u>S</u> hare name:	customersAE	
Share <u>p</u> ath:	\\RDALPHA07\customersAE	
Description:		
<u>O</u> ffline setting:	Selected files and programs available offline <u>Change</u>	
Apple Macintosh us	sers	
S <u>h</u> are name:	customersAE	
	< <u>B</u> ack <u>N</u> ext > Cancel	

5. Set the permissions and click Finish.

Share a Folder Wizard 🛛 🛛 🗙		
Permissions Specify permissions for the share.		
Use one of the following basic share permissions or create custom share and folder permissions.		
○ All users have read-only access		
○ Administrators have full access; other users have read-only access		
 Administrators have full access; other users have read and write access 		
C Use custom share and folder permissions		
Permissions you set on this page only control access to the share; you might also want to set permissions on individual files and folders. For more information about permissions, see <u>Help</u> .		
To create the share, click Finish.		
< <u>B</u> ack Finish Cancel		

6. In the Computer Management dialog, right click "Shared Folder" and select "Configure File Server for Macintosh..."



7. Choose "Apple Clear Text or Microsoft".

File Server for Macintosh Properties		
Configuration File Association Sessions		
Server name for AppleTalk workstations:		
RDALPHA07		
Logon <u>M</u> essage:		
Security		
Allow workstations to save password		
Enable authentication: Apple Clear Text or Microsoft		
Sessions		
● <u>U</u> nlimited		
C Limited to:		
OK Cancel Apply		

8. In the Computer Management dialog, go to "Shares" and select the correct share.

🚽 Computer Management				
🖳 Eile <u>A</u> ction <u>V</u> iew <u>W</u> indow <u>H</u>	elp			_ - - - - -
← → 🖻 🔃 🔛 🔤 🛭 😫	2			
🖳 Computer Management (Local)	Share Name 🔺	Folder Path	Туре	# Client Conne 🔺
🖻 🌇 System Tools	ata_custom	e:\Esko-Graphics\b	Windows	0
🕀 🔝 Event Viewer	💫bg_data_dgc_v010	e:\Esko-Graphics\b	Windows	0
🖻 🖓 Shared Folders	bg_data_fonts_v040	e:\Esko-Graphics\b	Windows	0
Shares	Bug_data_fonts_v040	E:\ESKO-GRAPHICS	Macintosh	0
	🧓bg_data_ipldata	e:\Esko-Graphics\b	Windows	0
E Scal Users and Groups	🜏 bg_data_marks_v	e:\Esko-Graphics\b	Windows	0
Performance Logs and Alerts	i⊋c\$	C:\	Windows	0
Device Manager	Real ClientSoftware	e:\esko-graphics\bg	Windows	0
E 🏭 Storage	customersAE	C:\customersAE	Windows	Open
🗄 🔐 Removable Storage	ScustomersAE	C:\CUSTOMERSAE	Macintosh	Stop Sharing
- 🚱 Disk Defragmenter	🗊D\$	D:\	Windows	
Disk Management (Dell Open	Reg DeskPackContainer	E:\DeskPack Data\D	Windows	All Tas <u>k</u> s 🕨
💥 Disk Management	🛃 DeskPackContainer	E:\DESKPACK DATA	Macintosh	Refresh
🗄 🕵 Services and Applications	€ 9E\$	E:\	Windows	
	EG_APPSRV_BIND	e:\Esko-Graphics\b	Windows	P <u>r</u> operties
	BEG_APPSRV_CON	e:\Esko-Graphics\b	Windows	Help
	BEG_APPSRV_DEPLOY	e:\Esko-Graphics\b	Windows	
	Enfocus Software	C:\Program Files\En	Windows	0
	T-lin Zunnkinn	nutralia constitue	118-4	i P
pens property sheet for the current sele	ction.			

9. Change the properties for that share. By default "Read only" is activated.

customersAE Properties		? X
General Share Permissions Security		
Group or user names:		
Administrators (RDALPHA07\Admin Everyone	nistrators)	
	A <u>d</u> d	<u>R</u> emove
Permissions for Administrators	Allow	Deny
Full Control Change Read	N N N	
ОК	Cancel	

17.1.2 How to share FlexRip volumes for a PC (Microsoft Windows 2000 Server)

Before being able to share, two conditions have to be met:

- 1. The FlexRip folder has to be 'shared' open enough for the user who wants to access it (so there are no problems with file permissions).
- 2. The user on the DTP PC has to be known on the FlexRip or has to be able to log in as user 'Guest'.

Therefore:

- On the FlexRip: share the volume and open its permissions:
 - 1. Right click the folder that you want to be visible for other PC's.
 - 2. Choose 'Share this folder...'.
 - 3. Activate 'Shared as:' and keep the proposed name (e.g. 'Hot Folders').
 - 4. Keep the user limit to 'Maximum Allowed'.
 - 5. Click 'Permissions': Set 'Full Control' for 'Everyone'.
 - 6. Click OK and click OK again in the 'Folder properties' window.
- On the FlexRip: enable the account of user 'Guest':
 - 1. Start = Programs = Administrative tools Computer Management.
 - 2. You will see 3 users: Administrator / Guest / Iusr_nameofrip
 - 3. Double click the user 'Guest' to open its window 'Guest properties'.
 - 4. De-activate 'account is disabled' (= so do enable this account).
 - 5. Click OK.
 - 6. Close the Computer Management dialog (top-right X). No restart is needed.

17.1.3 How to share FlexRip volumes for a Macintosh or a PC (Microsoft Windows 2000)

Note

Following will not be possible when your FlexRip does not have the required version of Windows: Microsoft Windows2000 Server.

Note

Folders can be shared for Microsoft Windows AND Apple Macintosh at the same time. Therefore, the procedure for both will be explained together.

The FlexRip folder has to be 'shared' open enough for the user who wants to access it (so there are no problems with file permissions). The user on the DTP PC or Mac has to be known on the FlexRip or has to be able to log in as user 'Guest'.

Therefore:

1. Log on a user 'Administrator'.

- 2. Start =Programs =Administrative Tools (Common) =Computer Management.
- 3. Have the right computer selected ("local" or name of your FlexRip). If not visible, try to select the exact domain or ask your network manager for more information.
- 4. System Tools =Shared Folders =Shares. You will see that a default volume is already mounted (C:\Microsoft UAM volume).
- 5. Select "Shares".
- 6. Choose Action =New File Share. Enable "Microsoft Windows" if you want a Windows share, enable "Apple Macintosh" if you want a Macintosh share. Enable both if you want a Windows AND Macintosh share. Set the following options: Computer: name of the FlexRip Folder to Share: enter the correct Hot Folder path Share Name: Windows Share Name Share description: brief description of the share (optional) Macintosh share name: The volume name is what will pop up in the Macintosh Chooser application and will then be set visible on the Macintosh Desktop.
- 7. Click "Next".
- 8. Enable "All users have full control".
- 9. Click "Finish".

Note

Above procedures use the standard 'Services for Macintosh' that Windows2000 offers. Customers who would like to improve the file transfer speed between Macintoshes and the FlexRip (Windows2000), could consider having this connection via a software product of CYAN Software GmbH called 'MacServerIP'. We successfully tested this in a FlexRip workflow and have noticed file-transfer speeds of average 3 times faster (compared to the standard Windows services). As this is only advice, we refer for all further info (and responsibility) to this company's web site: <u>www.cyansoftware.com</u>.

17.1.4 How to mount FlexRip volumes on a PC (Microsoft Windows 2000)

Mounting FlexRip Volumes on a PC will be done by simple 'mapping of network drives'. We will explain this with an example.

The DTP PC will map a drive 'X' to represent the folder 'Hot Folders' on the FlexRip. This way, the PC operator can easily print-save the PostScript files directly on the Hot Folders.

On the DTP PC: map a network drive to the shared FlexRip folder.

- 1. Start = Programs = Accessories = Windows Explorer.
- 2. In Explorer: Tools = Map network drive.
- 3. Choose a free drive and type the correct path to the FlexRip folder:

E.g. X:\\fripnt01\hotfolders Activate 'reconnect at logon'.

- 4. Click OK.
- 5. The mapped drive should now appear in the Windows Explorer. Should you experience problems, ask your (Windows) system manager to do this for you.

Note

Mapping a network drive will not ask you for a password because you enabled the guest account on the FlexRip. If you write a PostScript file on a FlexRip's Hot Folder, the PostScript file will initially have owner 'Guest', but after being ripped the resulting output file will have owner 'Administrator' (like it should be).

17.1.5 How to mount FlexRip volumes on a Macintosh OS9 or older

- 1. Click 🐳 =Chooser.
- 2. In the Chooser dialog, select the AppleShare icon and choose the appropriate share from the list.
- 3. Enter the correct password if asked for.
- 4. Click Connect. The selected share will appear on the desktop.

17.1.6 How to mount FlexRip volumes on a Macintosh OSX or later

- 1. In Finder, select Go =Connect to Server.
- 2. Select the server and the correct share from the list.
- 3. Enter the correct password if asked for.
- 4. Click Connect. The selected share will appear on the desktop.

17.2 Merging

It is not possible to merge files on the FlexRip. Merging can be done via the ticket in Automation Engine or the FlexRip Pilot.

For more information on merging, we refer to the Automation Engine documentation.

17.3 What about OPI?

A FlexRip is by no means an OPI server itself (so not a 'provider'): a FlexRip should therefore always receive 'fat' PostScript data. These data may have passed an OPI server (where the missing or low-resolution images were replaced with highresolution images). In that case, the DTP operator prints to the OPI server, which (after doing its OPI replacements) transfers (spools) the now 'fat' PostScript further on to a specific, print queue on to the FlexRip.

Note

Automatic replacement of low-resolution images by high-resolution images of course enhances the workflow. If you like OPI to be done before the PostScript data go to the FlexRip, you may do this. But as OPI links are not mentioned in the product specification of a FlexRip, Esko is not the responsible for its connectivity. All info on how to connect the OPI server's output channel to the FlexRip's input channels should be available to Esko via the FlexRip pre-installation question list. The setup of this OPI workflow can then be established during the initial installation training by the Esko instructor, this only by joining forces between the 2 parties: the FlexRip instructor and the customer's in-house specialist in that OPI software.

18 Glossary

C

CCITT Compresses data using algorithm (the CCITT encoding is specialized to 1 bit per pixel. a bit-oriented encoding facsimile standard). This monochrome image data at 1 bit per pixel

D

DynaCell screens

Esko DynaCell screens don't have the limitation of a limited set of available rulings and angles. This is reached through on-the-fly calculation of the screening pattern. The screens are calculated during the RIP process based on the precise ruling, angle and dot shape definition. Since this process happens in the RIP black box just before exposure, the result of this calculation has never been watched or optimized by an Esko engineer. As a result, these screens have a lower quality than the pre-calculated screens.

Ε

Esko Classic (precalculated) screens Pre-calculated means that the aspect, the form, the rulings and the angles of the screen are pre-defined in the Esko screening labs. These screens are the result of advanced engineering work. The screens are optimized for a smooth aspect, good behavior on the different printing processes, lack of artifacts etc. Furthermore, the screens are designed following a system of screen angles that avoids moiré between the main colors (cyan, magenta and black). The use of pre-calculated screens allows supporting advanced screening features like stochastic screening (Monet Screens) and transitional screening (SambaFlex Screens). Pre-calculated screens have only one disadvantage: since these screens have been designed and tested one by one, there is only a limited number of precalculated screens. Although the total number exceeds 2000 different screen ruling/angle/dot shape combinations, it is very well possible that no precalculated screen is close enough to a customer's wish. This happens specifically when other angles than flexo or offset angles are demanded. Esko precalculated screens with conventional screen patterns are called Esko Classic screens.

F

Flate	The lossless deflate compression algorithm is based on two other			
	compression algorithms: Huffman encoding and LZ77			
	compression. Deflate is a smart algorithm that adapts			
	the way it compresses data to the actual data			
	themselves.			

J

JPEG This file format for color-rich images was developed by the Joint Photographic Experts Group committee. JPEG compresses graphics of photographic color depth better than competing file formats like GIF, and it retains a high degree of color fidelity. This makes JPEG files smaller. You can choose how much to compress a JPEG file, but since it is a lossy format, the smaller you compress the file, the more color information will be lost.

- JPEG limited compression: very acceptable data loss
- JPEG low compression: very acceptable loss of data
- JPEG standard low compression:
- JPEG standard compression
- JPEG standard high compression
- JPEG high compression
- JPEG extreme compression: heavy compression, lots of data is lost.

L

LEN A LEN file is a bitmap file that is made by a FlexRip/C. 'LEN' stands for 'run Length ENcoding', which is a way of encoding bitmap files. The only information in this kind of file is where to put dots and where not. The Grapholas software will then expose these dots on the printing plate on the CDI drum. The LEN file itself can not "remember" any ink information of the separation. That's why the user will

information of the separation. That's why the user will have to specify which ink the LEN file is representing (unless he wants a Black & White proof of course).

	LEN files have high resolutions as 2100 ppi and more. Proofing on an HP proofer is typically done at a lower resolution like 600ppi.		
LZW Compresses data usir	ing the LZW (Lempel-Ziv-Welch) adaptive compression method, optionally after pretransformation by a predictor function. This is a good general-purpose encoding that is especially well suited for natural- language and PostScript-language text, but it is also useful for image data.		
Р			
PostScript screening	Using PostScript screening implies that all the information needed to build up the dots has to be in the PostScript file. There is no such thing as a combination of PostScript and Esko screening! In every DTP application, you can choose the LPI from the Esko PPD or you can overrule it. Also the print angle will be offered by the PPD but the DTP applications permit you to enter other angles. If you send these data to the RIP, the 'Esko screening' setting will again change these values via its own 'jump-to' mechanism. This means that the RIP will automatically jump to the nearest LPI or angle that is supported. If you do not use 'Esko screening' but 'PostScript screening', these 'special requests' will indeed be realized by the FlexRip. If you activate PostScript screening, the dot shape should also be described in the PostScript file. If you cannot select dot shapes in your DTP application, then it will probably describe the standard Fogra Round		
	dot shape (see also Esko's Fogra Round).		

Precalculated screens (Esko Classic) See Esko Classic (precalculated) screens.

R

RLE	RLE stands for Run Length Encoding. It is a lossless algorithm that only		
	offers decent compression ratios in specific types of		
	data.		
	RLE is one of the easiest compression algorithms there is. It replaces		
	sequences of the same data values within a file by a		
	count number and a single value.		
	RLE compression can be used in the following file		
	formats:* TIFF files and * PDF files.		

INDEX

A

Abort (copydot), 71 Abort Job, 29 About Dispatcher, 35 AppleTalk or Hot Folders, 80

B

Backup, 88 Basic tab (Queue settings), 45 Basics, 14

C

Calibrated color spaces, 57 Calibration, 62 Capture PS file, 32 Clear History, 28 Color strip, 63 Compression algorithm, 53 Configuration set, 52 Connect to, 73 Connected monitors, 35 Connection to DTP stations, 103 Copydot Tuning (Queue Settings), 68 Customer logo, 64 Customization, 88

D

Data backup, 88 Data legend, 64 Debugging (Queue settings), 66 Dispatcher, 27 Dot Shape, 48

E

Emulsion up/down, 80 Emulsion, 47 FlexRip queue, 19 Esko Curve Pilot, 85 Exit Dispatcher, 30

F

Index

Fail status, 95 FAQs, 98 File format, 15

Η

Hints, 80 History, 31 History View, 34, 75

I

Image, 47 Images with scaled resolution, 58 Imaging options, 47 Info menu, 35 InkPlanner (Queue settings), 60 Input queue settings, 32 Input queues, 35 Curve Pilot (Queue settings), 60 Internal errors, 92

L

Layout mode, 63 Log files, 78 LZW, 116

Μ

Merging, 112 More than one output device, 83 Mount FlexRip volumes on PC, 111

Ν

Native input (Queue settings), 58 Native workflow, 15

0

OPI, 112 Optimization, 56 Options menu, 30 Output file name, 50 Output file type, 19 Output module, 46 Output tab (Queue settings), 49 Index

P

Page size, 47 PDF password, 57 Performance (Queue settings), 33 Ports, 35 PostScript errors, 90 PostScript options, 54 PostScript workflow, 14 Press dot gain compensation, 61 Priority of settings, 44 Program options, 30 PS color management, 57 PS/PDF Input (Queue settings), 54 PS/PDF Marks (Queue settings), 62 Pure black overprint, 56

Q

Quark trapping, 57 Queue defaults, 32 Queue settings, 44 Queue types, 36

R

Reboot the FlexRip, 24 Resample, 71 Resolution, 45 Restart PS rip, 29 Restricted file names, 52 Rip menu, 28 RIP priority, 33 Rotation, 46

S

Scale, 46 Screen swap table, 56 Screen type, 54 Send jobs, 28 Server menu (Status Monitor), 73 Share FlexRip volumes for Macintosh, 103 Share FlexRip volumes for PC, 110 Shutting down the computer, 24 Shutting down the Rip, 23 Software version, 98 Starting up the computer, 22 Index

Starting up the Rip, 23 Status Monitor, 34, 72

Т

Template examples, 51 Template variables, 50 Tools menu, 34 Trace messages, 31, 73 Troubleshooting, 95

W

Workflow, 12 Workflow description, 16