

# 7 Minutes with HELIOS PDF Handshake 2

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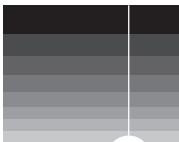
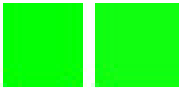


# Background-PDF Handshake 1



## ❖ PDF Handshake 1

- 
- ▶ Introduced April 1998
  - ▶ Primary functions
    - Advanced PDF printing support
    - OPI & Imposition support





# PDF Handshake Printing



## ❖ Key features

- ▶ ColorSync<sup>®</sup>/ICC support
- ▶ Prints separations; full spot color support
- ▶ Composite or separated PDF's
- ▶ TrueType & CID font support
- ▶ Control of print output parameters

## ❖ Logical upgrade from Adobe Acrobat<sup>®</sup> InProduction<sup>®</sup>

# PDF Handshake Printing

PDF Handshake Print:NEC SuperScript

General

Copies:  Orientation:

Pages From:  To:   All Flip Pages:

Paper Settings

Paper Size:  Width:  Height:

Center/Shrink To Fit Offset:  Gap:

Use PDF TrimBox/BleedBox

Registration Marks  Paper Dimensions Unit:

Input Tray:

Color Setup

Print Separations

Convert Spot To Process

Overprint Black

Preserve PDF Halftones

Negative Print

Plate	Angle	Frequency
<input checked="" type="checkbox"/> Cyan	105.000°	85.000
<input checked="" type="checkbox"/> Magenta	75.000°	85.000
<input checked="" type="checkbox"/> Yellow	90.000°	85.000
<input checked="" type="checkbox"/> Black	45.000°	85.000
<input checked="" type="checkbox"/> HKS 13	45.000°	85.000

Halftone:  Frequency Unit:

PDF RGB Profile:

PDF CMYK Profile:

OPI Settings

Ignore OPI References



# PDF Handshake 2



## ❖ Two new functions



### ▶ PDF Internet Printing

- 
- Easily print via the Internet



### ▶ Create PDF Server

- 
- Automated PDF creation



# PDF Internet Printing



## ❖ HELIOS PDF Internet Printing allows

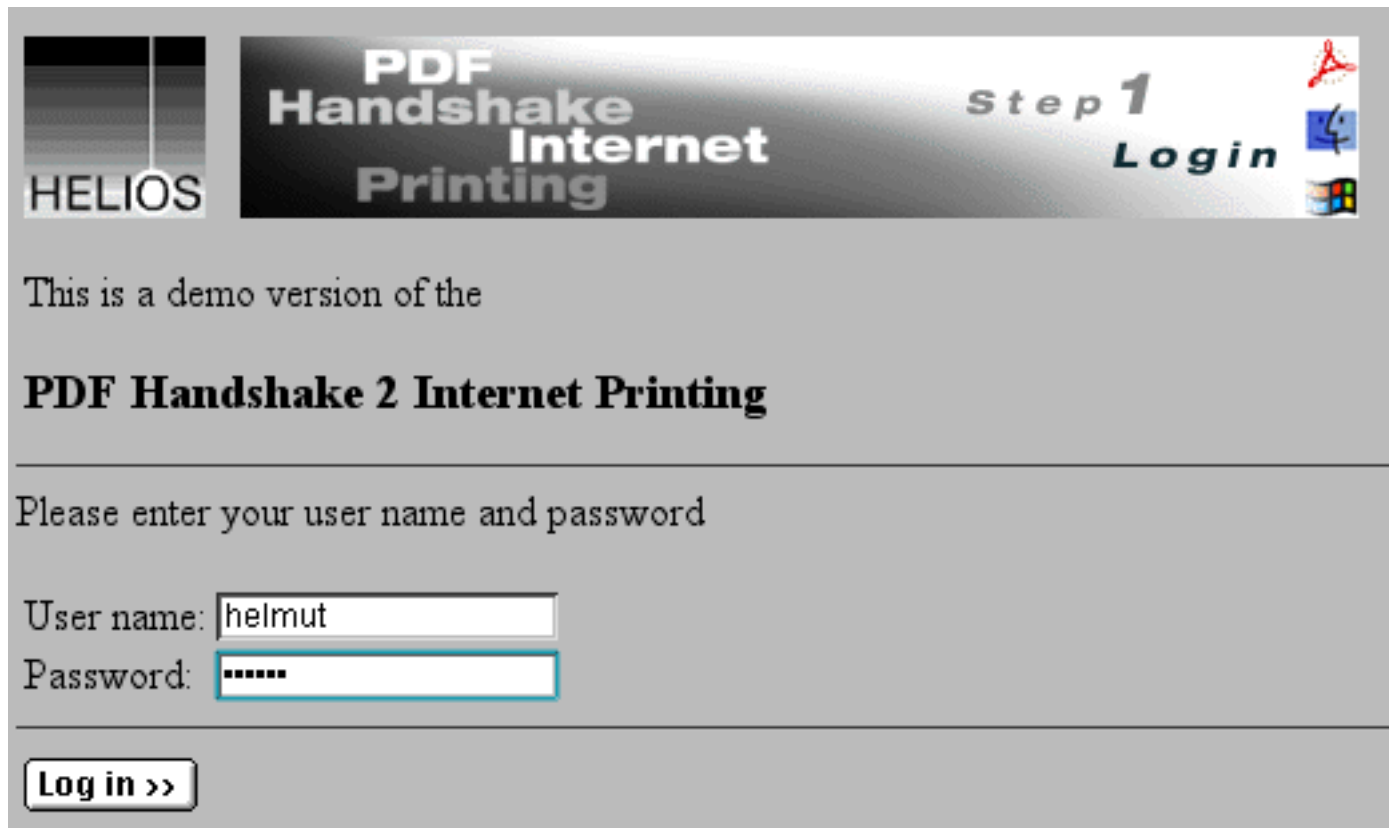
- ▶ *authorized* users only
- ▶ to easily print to your HELIOS server
- ▶ over the Internet
- ▶ seeing only the print spools designated for their use.

## ❖ HELIOS utilizes Web HTML

- + All Internet clients can use it
- + No special application is required
- + Automatic job processing (via cgi script)
- + Automatic job notification (via cgi script)
- Feedback of upload progress is limited in today's browsers

# PDF Internet Printing

## ▶ Step 1) Login



HELIOS

**PDF Handshake Internet Printing**

*Step 1*  
**Login**

This is a demo version of the

**PDF Handshake 2 Internet Printing**

Please enter your user name and password

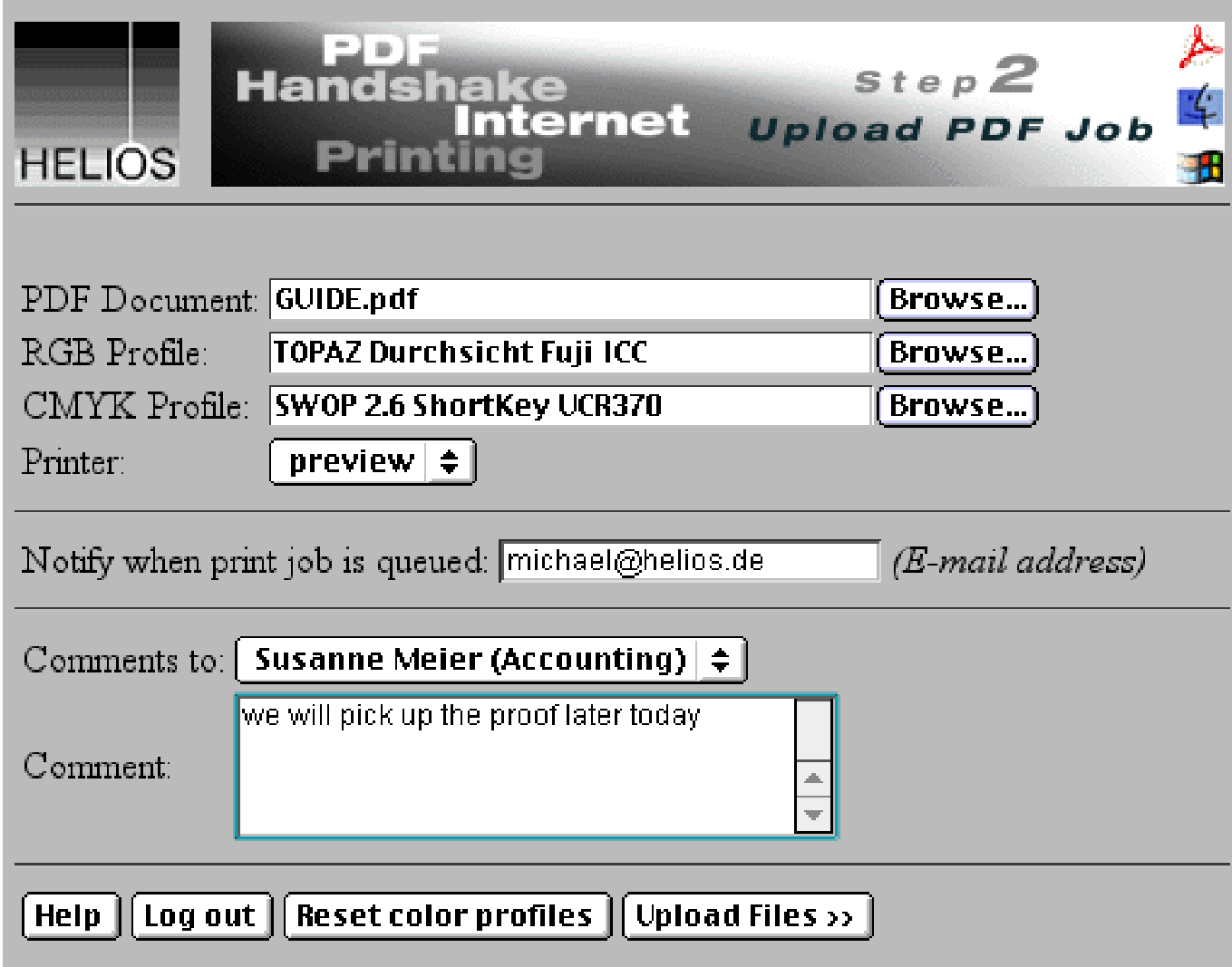
User name:

Password:

**Log in >>**

# PDF Internet Printing

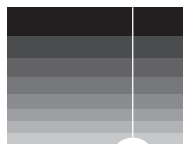
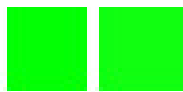
## ▶ Step 2) PDF Job Upload



The screenshot shows a web-based interface for uploading a PDF job. The header includes the Helios logo and the text 'PDF Handshake Internet Printing Step 2 Upload PDF Job'. The main form contains several fields and buttons:

- PDF Document:** A text box containing 'GUIDE.pdf' and a 'Browse...' button.
- RGB Profile:** A text box containing 'TOPAZ Durchsicht Fuji ICC' and a 'Browse...' button.
- CMYK Profile:** A text box containing 'SWOP 2.6 ShortKey UCR370' and a 'Browse...' button.
- Printer:** A dropdown menu with 'preview' selected.
- Notify when print job is queued:** A text box containing 'michael@helios.de' with the label '(E-mail address)'.
- Comments to:** A dropdown menu with 'Susanne Meier (Accounting)' selected.
- Comment:** A text area containing 'we will pick up the proof later today'.

At the bottom of the interface, there are four buttons: 'Help', 'Log out', 'Reset color profiles', and 'Upload Files >>'.



# PDF Internet Printing

## ▶ Step 3) Customize Print Options

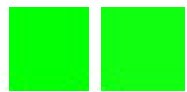
The screenshot shows the 'Step 3 Job Options' dialog box for HELIOS PDF Handshake Internet Printing. The window title is 'HELIOS PDF Handshake Internet Printing Step 3 Job Options'. The print job is 'GUIDE.pdf' and the printer is 'preview'. The dialog is divided into several sections with various controls:

- Copies:** 1
- Orientation:** Portrait
- Pages from:** 1 to 49
- Flip Pages:** None
- Paper size:** Letter
- Width:** [ ]
- Height:** [ ]
- Center/shrink to fit
- Offset:** [ ]
- Gap:** [ ]
- Input tray:** Default
- Dimension units:** Inch
- Halftone:** Default

At the bottom, there are three buttons: Help, << Back, and Next >>. The 'Inch' button in the 'Dimension units' section is highlighted with a red border.

# PDF Internet Printing

Step 4)  
Color  
Setup



**PDF Handshake Internet Printing** Step 4 Color Setup

HELIOS  
Print job: GUIDE.pdf  
Printer: preview

Print separations  
 Preserve PDF Halftones  Negative Print  
 Print registration marks

The following settings are used only for printing separations:

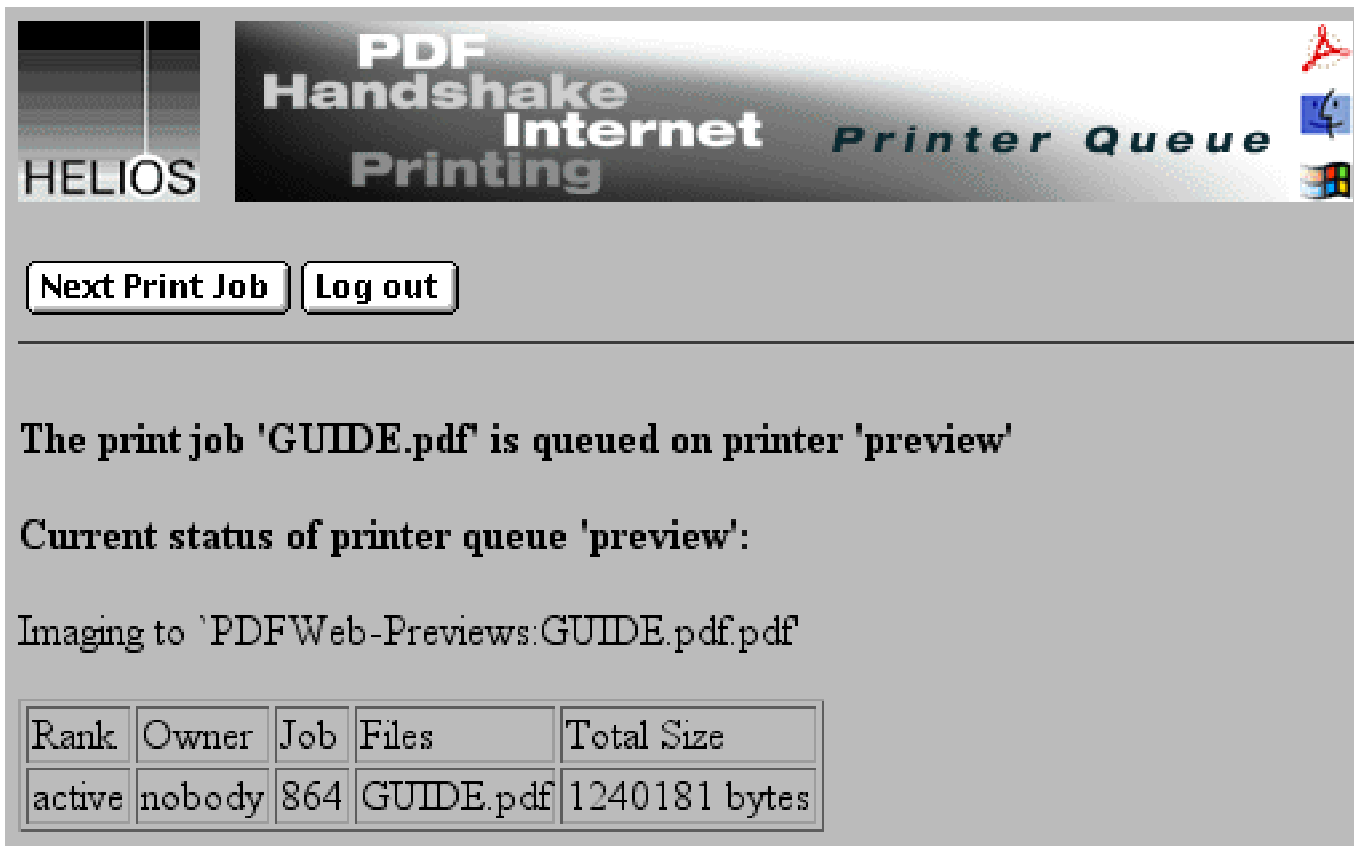
Spot To Process  Overprint black

Plate	Angle	Frequency (lpi)
<input checked="" type="checkbox"/> Cyan	71.565100	63.245600
<input checked="" type="checkbox"/> Magenta	18.434900	63.245600
<input checked="" type="checkbox"/> Yellow	0.000000	66.666700
<input checked="" type="checkbox"/> Black	45.000000	70.710700

Help << Back Start Print Job >>

# PDF Internet Printing

▶ PDF job arrives in printer queue



HELIOS PDF Handshake Internet Printing Printer Queue

Next Print Job Log out

The print job 'GUIDE.pdf' is queued on printer 'preview'

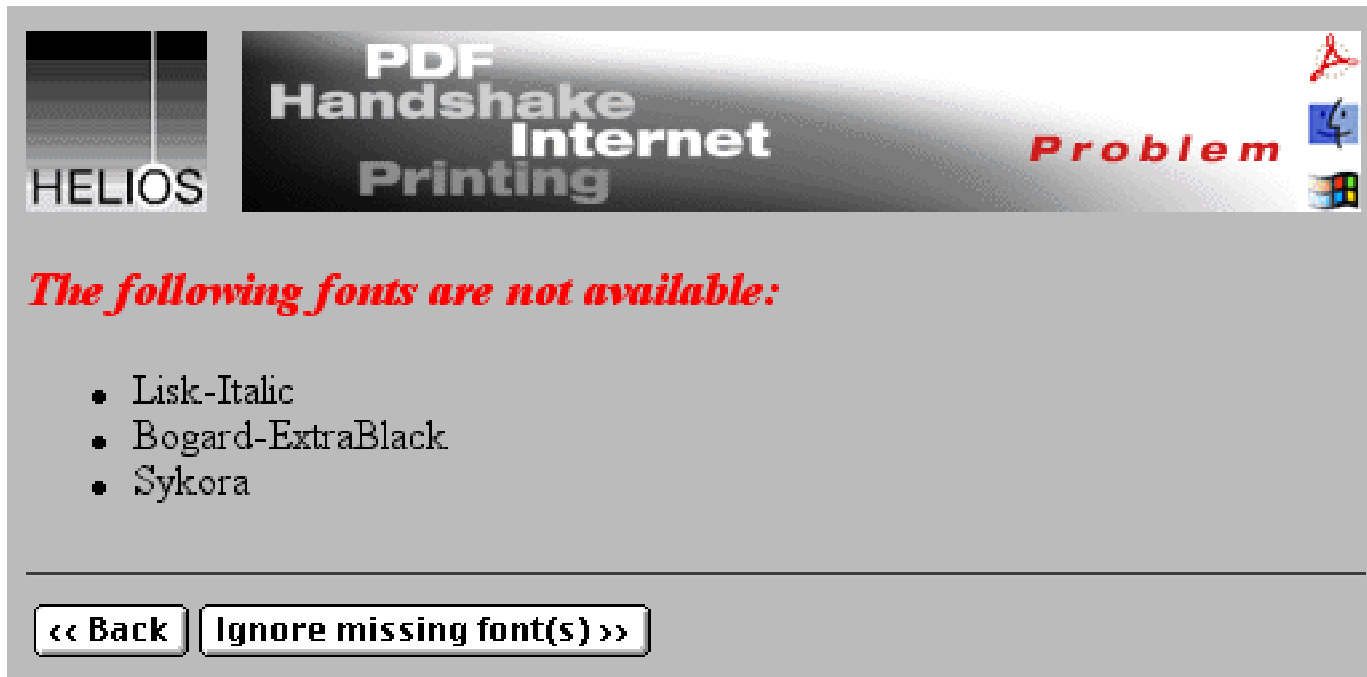
Current status of printer queue 'preview':

Imaging to 'PDFWeb-Previews:GUIDE.pdf.pdf'

Rank	Owner	Job	Files	Total Size
active	nobody	864	GUIDE.pdf	1240181 bytes

# PDF Internet Printing

▶ Preflight Fonts, Colors, OPI Images, etc.





# PDF Internet Printing



▶ What PDF Handshake automatically does:

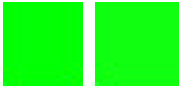
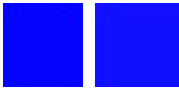


- Preflight Fonts in PDF job

- Missing fonts can be installed
- TrueType gets converted to Type 1 (e.g. RIP does not support TT)
- CID Fonts are transformed into Type 1 (InDesign, etc.)



- Adjust colors via ColorSync/ICC profiles

- 
- 
- All PDF objects will be adjusted for the printing process.
  - Black text stays black, gray stays gray, etc.
  - RGB grayscales are detected and converted into black (e.g. Word)
  - Proof Printing support including paper white simulation

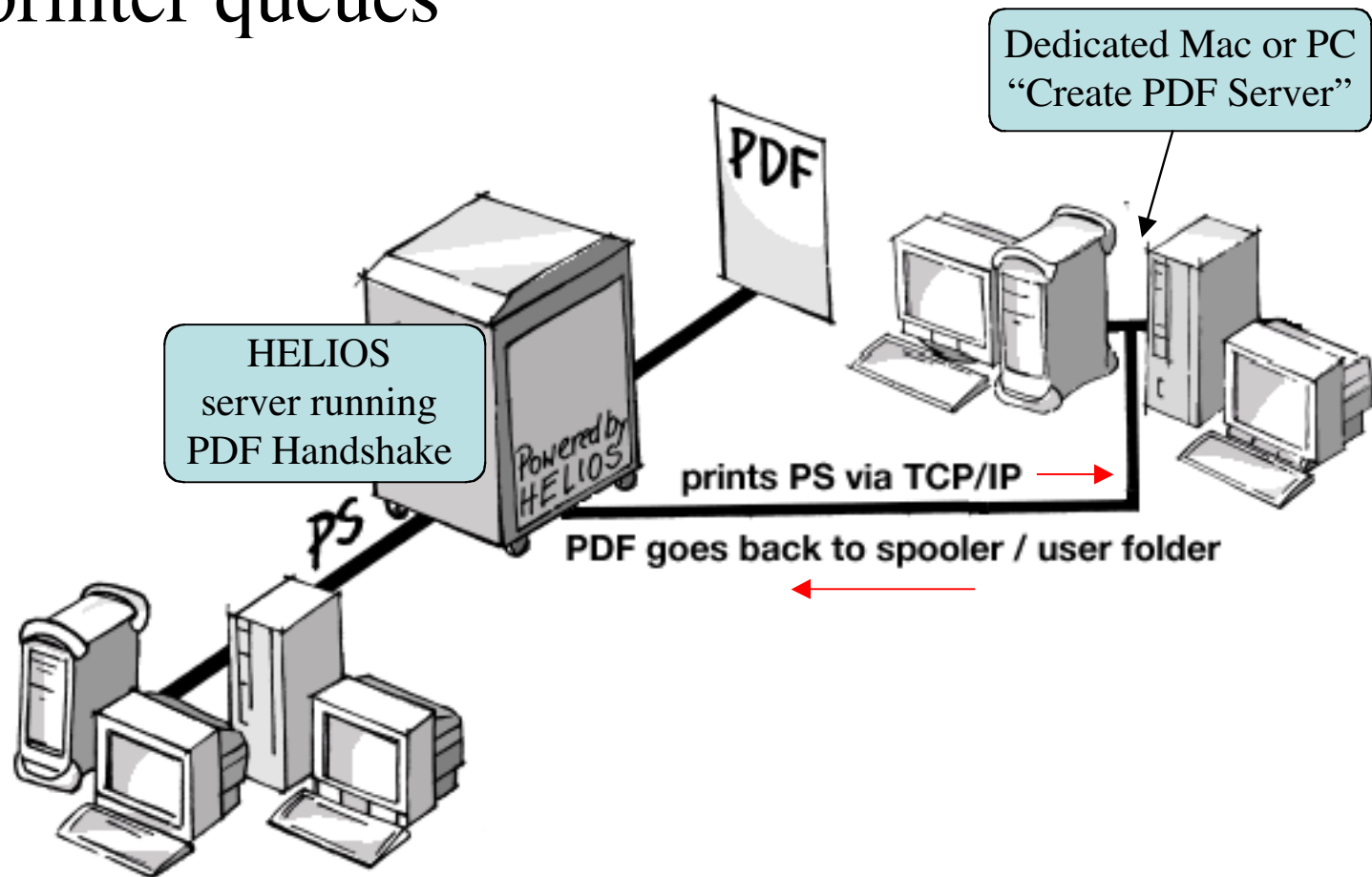


- Support of pre-separated PDFs

- via Composite OPI-Layouts, Output on any PS device

# Create PDF Server

Automated server-based PDF creation via printer queues





# Create PDF Server



## ❖ Create PDF Server prerequisites



### ▶ Dedicated Mac or PC

- distilling process is CPU intensive, will keep it busy during jobs
- Macintosh workstation, Mac OS 9.0.4+, and/or
- Windows NT, 2000, or XP workstation
  - Create PDF Server runs as a Windows service (in background)



### ▶ Fast Ethernet TCP/IP connection



### ▶ 128 MB RAM



# Create PDF Server



## ❖ Overview



- ▶ PDF Handshake runs on the primary server
- ▶ Print spools are set up, each with their own Distiller Job Options and Security settings
- ▶ a Mac or Windows workstation runs Distiller with Create PDF plug-ins, as the “Create PDF Server”
- ▶ Print jobs are submitted to Create PDF print queues on the primary server



# Create PDF Server



## ❖ Overview



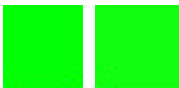

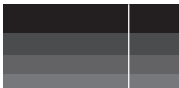
- 
- 
- ▶ The PostScript print jobs are then sent via TCP/IP to the workstation running Distiller
    - This is a streaming operation with no intermediate saves
  - ▶ The distilled PDF is then streamed back to the primary server.
  - ▶ The PDF files are saved in a private folder per user
  - ▶ In the event of a Distiller job failure
    - PostScript forwarded into error queue
    - Entry made in printer accounting log file
    - User alerted via e-mail



# Create PDF Server



## ❖ Benefits

- 
- ▶ Custom Distiller settings for each printer queue
- 
- ▶ No settings on "Create PDF Server" required
  - ▶ No temporary spool files on the "Create PDF Server"
- 
- ▶ CPU-intensive PDF creation is off-loaded from primary server onto dedicated Macs or PCs
- 
- ▶ Load balancing with multiple "Create PDF Servers"
- 
- ▶ Flexible job processing  
e.g. single print job can create multiple PDF files for printing, Web presentations, archiving, etc.



# Create PDF Server

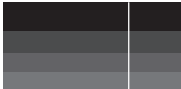
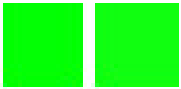
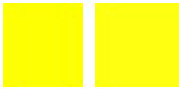


## ❖ More Benefits

- ▶ Uses Acrobat Distiller 4.0.5 or 5 - not a distiller clone
- ▶ Licensing:
  - Acrobat 5 license requires that each user creating PDFs needs their own Acrobat license  
(See details Adobe end-user license agreement §2.2)
- ▶ Solution supports UNIX, Macintosh, and Windows clients
- ▶ Easy to add PDF Handshake to your network
  - Runs on UNIX, Linux, and Mac OS X servers



# HELIOS PDF Handshake



HELIOS  
22 Feb 2002

