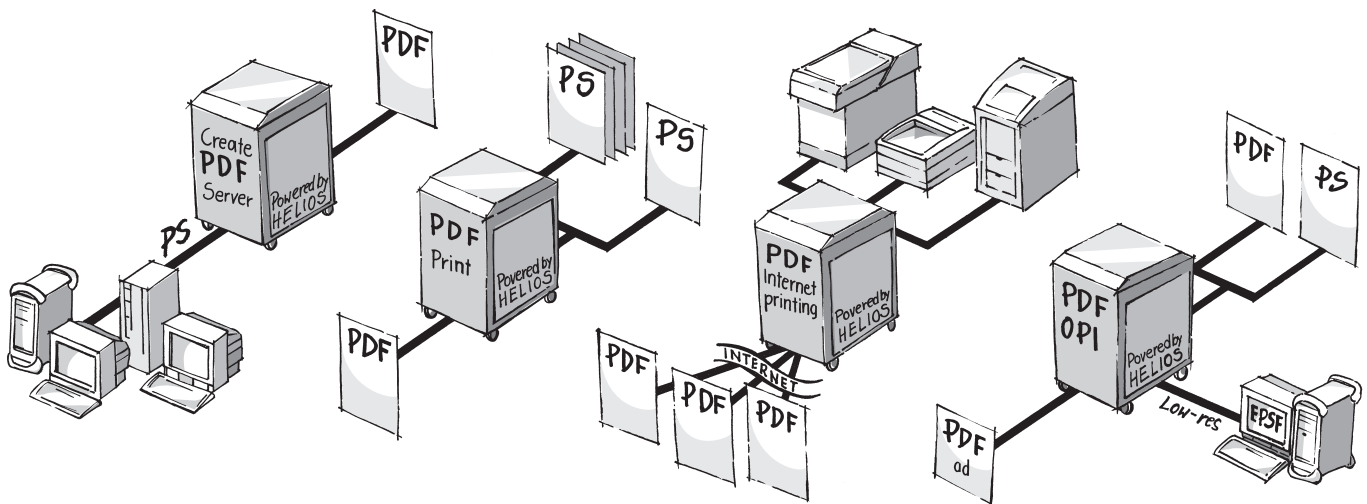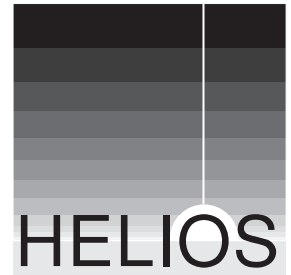# PDF HandShake 2.1

PDF Printing · PDF OPI and Imposition
Create PDF Server · PDF Internet Printing

**HELIOS**

**HELIOS PDF HandShake** fully utilizes the benefits of PDF in your existing production environment without the need to upgrade applications or output devices and without re-training people.

**PDF HandShake printing** offers correct PDF printing of separations and composite PDF documents on any PostScript compatible output device. It includes ColorSync/ICC color management and proof simulation support. PDF HandShake offers capabilities beyond the default Acrobat Printing features, e.g. printing registration marks, custom page sizes, grayscale detection and conversion to black, printing always with correct fonts, conversion of embedded TrueType and CID fonts to Type 1, and more. PDF HandShake is the perfect printing solution for any PDF document. It doesn´t matter if the PDF was designed with Microsoft Office, Quark-XPress or InDesign, PDF HandShake printing will always print correctly on any PostScript output device.

**Create PDF Server** is a highly automated server-based PDF creation solution. Macintosh, Windows and UNIX clients can print to a Create PDF printer queue which automatically creates PDF documents of any PostScript print job. Simply set up various print queues, each corresponding to a specific set of job options. This solution is able to automatically utilize multiple CPUs for the PDF creation and is scalable from a few users to hundreds of users.

**OPI support** ImageServer users will be able to place EPSF low-res files which are automatically created from PDF high-res documents. During printout the low-res files will be replaced with the PDF high-res data and printed correctly using PDF HandShake printing technology. Printing to a Create PDF queue produces high-res or low-res PDF of all OPI print jobs. PDF with OPI references is fully supported and printing to an OPI queue replaces all OPI references.

**PDF Internet Printing** enables a Web server to receive PDF jobs over the Internet. Via the PDF HandShake HTML front end, users will be authenticated, PDF print jobs can be uploaded, preflighted, customized, and printed to a specified queue. This solution enables PDF printing over the Internet via any Web browser.

**Smart Ideas for Better Networking.**

## Features & Benefits

**Ease of Use**
- Easy to install, administer, use

**PDF Printing**
- Composite & separations printing
- Proof printing
- ColorSync/ICC color management
- Output to any PostScript device
- Registration marks, custom sizes
- Spot color support
- Pre-separated PDF support
- TrueType & CID font support
- HTML-based server for remote PDF printing via a browser interface

**Create PDF Server**
- Support for Windows, Macintosh and UNIX clients
- Scalable via load balancing queues
- No temporary PS files on server

**PDF & OPI Support**
- EPSF layout files from any PDF, this integrates PDF into any page layout software today
- Composite and pre-separated PDFs
- OPI Imposition support for PDF files
- Plate Control tool to edit plate names and spot colors

**PDF Internet Printing**
- Receive PDF print jobs over the Internet

## System Requirements

### PDF HandShake on Server

- EtherShare 3.1 or newer is required to use PDF HandShake
- PCShare 3.1 or newer is required to receive print jobs from Windows for Create PDF Server
- HELIOS ImageServer is optional for OPI and imposition features

- Macintosh Acrobat Reader is required for printing of PDF documents
- PDF Internet Printing requires a working Apache Web server with Perl
- Create PDF Server requires Acrobat Distiller 4.0.5 or 5 for Macintosh, or Windows NT/2000/XP
- PrintPreview is optional for a bitmap preview of PDF print jobs

## Product Highlights

### Printing

- Acrobat plug-in for printing directly from Acrobat Reader and Exchange
- Acrobat plug-in to verify or define plate color names and spot colors
- ColorSync/ICC support for printing All colors will be changed to the output color space e.g. CMYK according to the ICC profile. Paper white will be simulated when proof printing.
- PDF HandShake includes high quality ICC profiles for Cromalin, Euroscale, SWOP, NewsPrint, MatchPrint printing standards, as well as EBU-RGB, and various scanner profiles
- PDF 1.0, 1.1, 1.2 and 1.3 support
- PostScript 3 fonts are included for accurate printing and for creating EPSF preview files for OPI
- UNIX PDF Tools included for batch processing and scripting: pdfprint, pdfcat, pdfinfo, pdfnote, pdftoeps
- Hairline detection and correction during printing
- Grayscale, black and white detection with correct output
- Grayscale detection of indexed RGB color in PDF data with correct output
- Missing fonts in a PDF document will be detected and the job will not be printed unless the font is available. Missing fonts can be installed on the EtherShare font server.
- Options: overprint black text, negative printing, ignore OPI references for PDF printing

- TrueType & CID Font support (at present no support for double-byte CID fonts)
- Bleeding support

### PDF and OPI

- EPSF layout files are automatically created from PDF documents to be used for placement and printing
- Automatic PDF replacement of OPI references in a PDF document
- Pre-separated PDF documents are supported. A composite EPSF preview for placement will be created. A composite proof with max. 150 dpi can be printed. Separation printing works with full resolution but without ColorSync/ICC support because the data is already separated

### PDF and Imposition

- Acrobat Exchange plug-in to export a low-res version of books in PDF format for impositioning
- Compatible with all major PostScript imposition software. See tested vendors: www.helios.de/products/PDFH/PDF_Handshake.html
- OPI replacement takes place after imposition during the final output
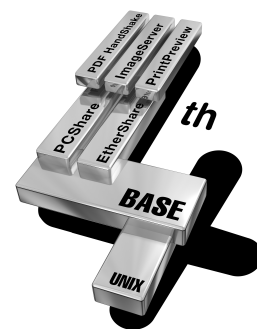- Optional composite and separation bitmap preview of imposed job using PrintPreview

### Create PDF Server

- Automatic PDF creation via print queues on the server
- Support for Windows clients and Macintosh clients, support for UNIX clients via lpr
- Customized job options and security

settings per queue allow different PDF creation settings

- Acrobat Distiller is used with the HELIOS Create PDF Server application on one or more dedicated Macintosh or Windows machines for PDF creation
- Scalable via load balancing queues Multiple PostScript jobs can be processed in parallel on all available Create PDF Server machines.
- No temporary PostScript files on the Create PDF server
- Centralized Create PDF queue administration within EtherShare Admin. There is no configuration required on different Create PDF Server machines. More details: www.helios.de/products /PDFH/PDF_Handshake.html, go to: Create PDF Server

### PDF Internet Printing

- A Web server solution to receive PDF print jobs from users over the Internet. More information and a test drive server can be found on the HELIOS Web site
- User interface (Perl CGI program) is included as source code to build customized solutions
- Received PDF print jobs are available in the printer queue and on a disk volume
- Automatic E-Mail notification when a new job arrives
- Simply set up various users, each of which is authorized for a specific set of print queues

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**More details on the HELIOS Web site:** www.helios.de/products/productshows.html

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