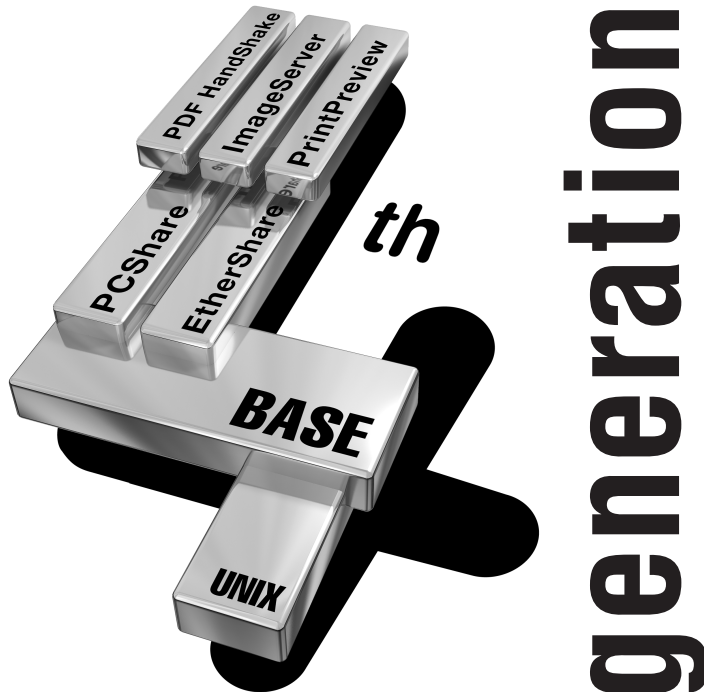
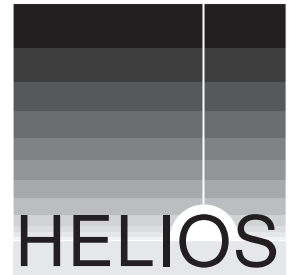


HELIOS Base 1.1

Superior Server Foundation for all HELIOS Products



HELIOS Base is the innovative foundation used by all HELIOS 4th generation products. It incorporates the advanced server technologies developed by HELIOS over many years. These core HELIOS technologies include Server Fail Safety, Unicode support, networking and imaging libraries, and more. HELIOS Base provides the foundation for all HELIOS products.

Ease of Use The conception and design of HELIOS Base allows great flexibility and ease of use. This starts with the software installation, using the new HELIOS Software and Update Installers. The Software Installer even installs available software updates automatically. The new HELIOS products location and configuration allows customers to switch between all supported UNIX platforms within minutes by preserving all custom settings of the HELIOS server solutions.

Server Fail Safety HELIOS software is a crucial component in mission-critical environments. HELIOS Base adds an additional level of Server Fail Safety. The central HELIOS Service Controller starts,

stops and monitors all HELIOS services. Separate processes per active user are generated, to enforce file security and ensure process safety. A failure of any HELIOS service will be reported and if required, the HELIOS Service Controller will restart the service.

64-bit Support HELIOS Base removes the 2 GByte file size limits of 32-bit computing. On all supported platforms the HELIOS libraries are 64-bit based, so print jobs and files can be as large as 8 million terabytes.

Unicode is the 16-bit character encoding which includes all the different characters used worldwide (up to 65000). All HELIOS services and tools use Unicode to allow cross-platform UTF-8 file names to be shared by UNIX, Windows and Macintosh users.

Advanced Printing System HELIOS Base provides the state-of-the-art HELIOS Printing System to all other HELIOS products.

There is no extra charge for the HELIOS Base product.

Smart Ideas for Better Networking.

Features & Benefits

Ease of Use

- Easy to install, administer, use

Server Features

- Server Fail Safety via the HELIOS Service Controller. Automatic logging and restart of failed services
- Advanced printing system, UNIX lpr compatible, 64-bit print job support
- 64-bit large file support
- TCP/IP SLP Server Service & Directory Agent. All server services will be registered via TCP/IP for easy browsing
- Unicode 16-bit character support
- Easy migration to other HELIOS supported server platforms
- HELIOS Software Installer
- HELIOS Update Installer, with Internet Update Download support
- Common libraries
- Central start/stop and scripting
- Server preferences repository, global storage of all server settings, tools for management
- ICC-Profiles repository
- HELIOS SDK available

Flexibility

- Scalable UNIX servers from Sun, HP, IBM, SGI, Apple, Linux, etc.

System Requirements

Supported HELIOS Server

- One of the following UNIX systems:
Sun SPARC Solaris, IBM RS/6000
AIX, HP-UX, Silicon Graphics IRIX,
Compaq Alpha UNIX, Apple
Mac OS X and Linux Pentium
- 16 MB free RAM for HELIOS Base,
additional memory will be used by

Product Highlights

Server Installation

- Fast, menu-driven installation from
CD-ROM, easy installation for system
administrators
- Extensive documentation in printed
manuals and on-line

Server Administration

- TCP/IP security options, access lists
- Central start-helios/stop-helios script
to control all HELIOS services
including additional custom scripts
- Central location for custom scripts
- HELIOS Services, "srvutil" front end
to manage different services
- Server preferences tools:
prefdump, prefvalue, prefstore
- Central passwords up to 64 bytes
- Open files tool

Server Fail Safety

All HELIOS applications are started and stopped via the HELIOS Service Controller.

- Automatic reporting of problems
- Automatic service restart if required
- If a process fails, other processes are
not affected
- Automatic starting order
- Allows including third-party applica-
tions and scripts via preference set-
tings
- HELIOS SDK available to develop
additional start/stop COM plug-ins to
permit more control, e.g. start, stop,
restart events, messages, etc.

A product from:

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UNIX caching and provides faster
performance. Memory requirements
for other products see data sheets

- TCP/IP network connection, optional
NFS, NIS/NIS+, DNS, ...
- At least one network adapter; multiple
adapters for load balancing in
heavy- duty environments

Unicode

All HELIOS services utilize Unicode. The
following client encodings are sup-
ported: MacRoman, PC-850, ISO-8859-
1, Japanese Shift JIS, Korean EUC-KR.

- Unicode UTF-8 is used for file names
- "uniconv" tool converts files and file
names between different encodings
- HELIOS SDK is available to develop
additional client encodings or to use
the HELIOS conversions in custom
applications

Advanced Printing System

Large server sites require a superior
printing system to manage their printing
needs. The HELIOS Printing System
includes key features, like custom spool
directories, moving of jobs between
queues, reprinting and archiving of jobs,
full error feedback and control, etc. It is
BSD LPR compatible, but includes
significant additional features.

- Fully BSD "lpr/lpd" compatible, all
batch lpr tools are included
- PostScript, PDF and other jobs are
supported

Extensive Output Options

- Error and hold queues for all queues
to reprint and monitor the jobs done
- Print to Remote LPR printers, with 64-
bit jobs between HELIOS Base "lpr"
printers, and 32-bit jobs to other "lpr"
based printers
- Printing via TCP/IP Stream
- Print to Disk including compression
- Print to AppleTalk PAP Printers
(requires EtherShare 3.1)

HELIOS products using Base

- HELIOS EtherShare 3.1
- HELIOS PCShare 3.1
- HELIOS ImageServer 2.5
- HELIOS PDF HandShake 2.1
- HELIOS PrintPreview 2.0

- Print to Windows SMB/CIFS printers
(requires PCShare 3.1)
- Print to Create PDF queue
(requires PDF HandShake)
- Time queue to specify printing times
- Balance queue for load balancing
- Clone queue to duplicate jobs for dif-
ferent workflows
- PrintPreview queue to check bit-
mapped composite and separated
previews of PostScript and PDF jobs.
(requires PrintPreview, optional PDF
HandShake for PDF files)
- Print job accounting

HELIOS Update Installer

- Each HELIOS installed file has a
version number and is managed by
our version control system
- Automatic download of updates from
the HELIOS Web server
- Automatic installation of updates
including dependent updates
- Option to roll back installed updates

Migration to other platforms

All installed HELIOS products and set-
tings can be transferred to a new
platform by installing the HELIOS prod-
ucts from CD and moving the HELIOS
"var" folder to the new platform. All
server settings including volumes and
printers are transferred to the new plat-
form and are automatically re-created on
the new system.

- Migration from previous product
versions is supported

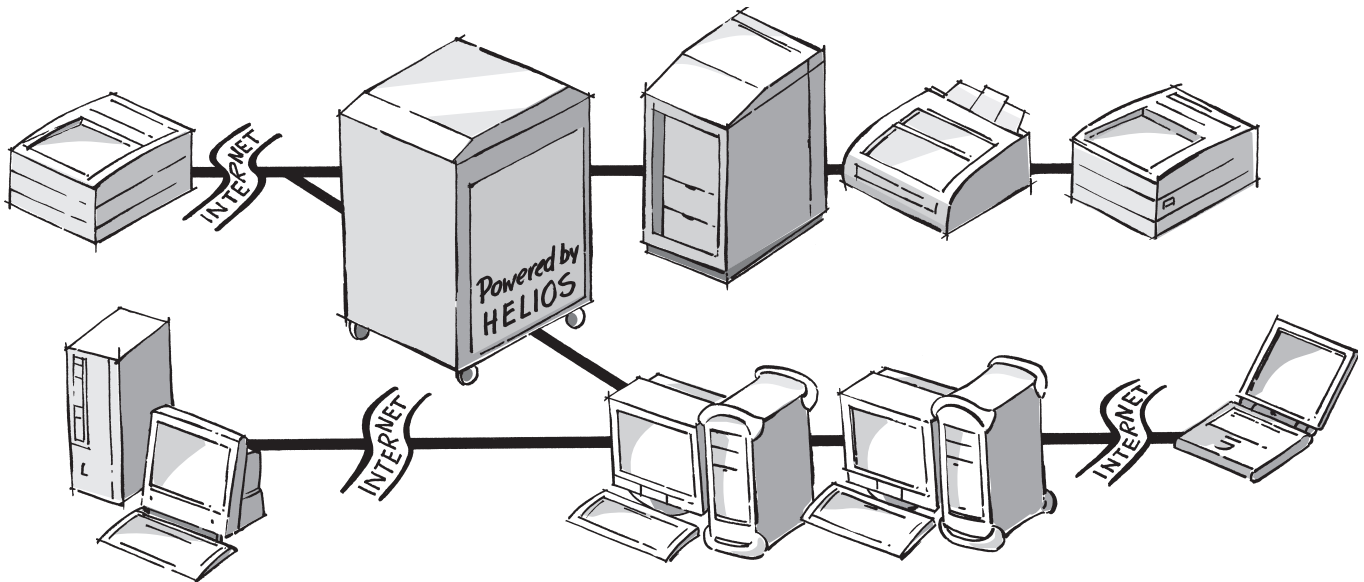
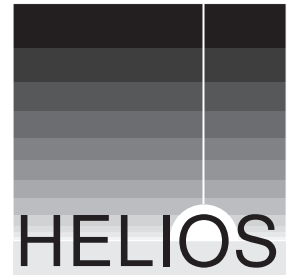
More details on the HELIOS Web site: www.helios.de/products/productshows.html

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EtherShare 3.1

Highest-Performance Server for Macintosh Clients



HELIOS EtherShare allows easy integration of powerful servers into Mac networks. It provides an extremely fast, reliable, feature-rich AppleShare-compatible file and print server to unlock UNIX performance for Macintosh clients. It is well known for its reliability, performance, and ease-of-use.

EtherShare fully complies with Apple standards incl. AppleShare IP. It works with any Macintosh out of the box, without the need to train users. EtherShare is easy to set up. It is installed on the server in minutes from CD-ROM. All further management is done remotely from Macintosh. It's simple to configure users, groups, volumes, print spoolers, etc., with EtherShare via an easy to use Macintosh interface.

EtherShare not only offers impressive file and print services, AppleTalk routing, and remote administration by Macintosh, but many additional features which prove extremely useful for daily work.

AppleShare IP acceleration is built-in so clients can fully utilize faster networks like Fast or Gigabit Ethernet. The EtherShare print spooler is state-of-the-art

and only limited by available UNIX resources. The HELIOS TCP/IP printer driver prints many times faster than Mac OS PAP or LPR. There is detailed accounting information on all print jobs which are easily exported to other programs. The built-in font server minimizes font problems and significantly reduces network traffic.

EtherShare provides a Macintosh time server to keep clocks synchronized over the network. EtherShare scales well from small sites with only a few Macintoshes to large sites with the most demanding requirements, and always remains easy to administer.

EtherShare is tightly integrated with UNIX. With PDF HandShake and ImageServer it serves the widest range of printing needs. Optional PCShare yields a true cross-platform solution. HELIOS supports a variety of server platforms with equal feature sets, identical administration, and same release dates. This gives customers the flexibility to choose the right server for their needs, budgets, and future plans.

Features & Benefits

Ease of Use

- Easy to install, administer, use
- No client installation necessary
- Easy Server Administration via remote Macintosh user interface

Server Features

- AFP File Server supports TCP/IP and AppleTalk
- Remote volumes and printers over the Internet
- Full AFP File & Directory ID (Alias) support, Server-optimized "Find File" support
- AppleTalk Routing between multiple network adapters
- Print spooler for PAP & TCP/IP, Mac OS 9/X TCP printer drivers, PPDs, Type1 Font Server, etc.
- Time Server, POP3 mail server
- UNIX Desktop Tools (mv, rm, cp, ...)
- PCShare volume compatibility

Client Support

- Mac OS 8.1-10.2

HELIOS Base Features

- Advanced Printing System
- TCP/IP SLP Server
- Unicode/UTF-8 file representation

Flexibility

- All major UNIX server platforms

Smart Ideas for Better Networking.

System Requirements

EtherShare Server

- One of the following UNIX systems:
Sun Solaris, IBM RS/6000 AIX, HP-UX, SGI IRIX, Compaq Alpha UNIX, Apple Mac OS X and Linux Pentium
- 32 MB RAM; 2 MB per active client
- Active TCP/IP & AppleTalk network optional NFS, NIS, DNS ...

Product Highlights

Server Installation

- Fast, menu-driven installation from CD-ROM, easy installation for system administrators

Client Installation

- No special drivers for file & print services required
- Automatic IP-based file server acceleration when TCP/IP is configured
- Easy client installer for addl. tools

Server Administration

- Remote administration from any Macintosh using Mac OS 9.2 or Mac OS X
- Manage multiple servers simultaneously
- Manage UNIX users, groups
- Publish volumes and printers
- Manage spool queues and PostScript fonts with "drag and drop" ease
- Handle printer accounting data
- Easy setup of AppleTalk routing
- TCP/IP security options, access lists

File Services

EtherShare is compliant with Apple's AFP 2.2 providing proper support for privileges, fast "Find File", Alias, etc. All UNIX disk space incl. NFS volumes, CD, MO, etc. can be used. Up to 400 volumes per server are supported. Macintosh files are stored in a way that Macintosh, Windows, and UNIX can fully share documents. Messages can be sent to any connected client with EtherShare Admin or from UNIX. Extremely fast with AppleShare IP: via Gigabit Ethernet over 35 MByte/s to G4 Macintosh clients, up to 70 MByte/s total server throughput.

A product from:

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- At least one network adapter; multiple adapters for load balancing in heavy-duty environments

Macintosh Clients

- Macintosh with Mac OS 8.1- 10.2
- AppleTalk limit of 250 sockets. This limitation does not apply for TCP/IP
- Optionally, HELIOS PCShare to integrate Windows clients

- Unicode volumes store all file names in 16-bit Unicode/UTF8 format. This allows the same file names to be used from UNIX, Windows and Macintosh clients, including special characters.

Advanced Printing System

HELIOS Base provides the state-of-the-art HELIOS Printing System to all other HELIOS products. See details in Base datasheet. EtherShare offers powerful printing services with flexible, Macintosh administered queue management. Support of PPD files per spool queue allows exploiting special printer features. Hold and Error queues hold all or all erroneous print jobs for easy postprocessing and troubleshooting. Balanced queues print to the next available printer of a group of printers. Detailed accounting information including fonts used, pages, etc. is provided. EtherShare accepts UNIX text, nroff, PostScript, and raw.

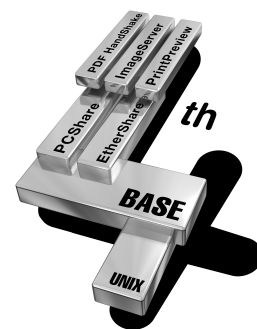
Print Spooler for Mac OS clients

- AppleTalk PAP print spooler
- HELIOS TCP/IP print spooler with TCP/IP printer drivers for Mac OS 9/X prints up to three times faster than PAP or LPR
- Font management: EtherShare font server stores Mac/Win PostScript fonts on the server to have the same fonts available for all printers
- Security: print spooler authentication with username and password
- PrintPreview option to get a PDF bit-map preview of every print job
- PDF separation printing & OPI are optional extensions

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

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- Create PDF Server option to automatically create PDF files from each print job
- The spooler can direct PostScript jobs to networked devices, e.g. laser printer, RIPs, ...

AppleTalk Routing

EtherShare routes AppleTalk between all available appropriate server network interfaces.

Electronic Mail

EtherShare includes a POP3 mail server which can be used e.g. with Navigator or Internet Explorer.

HELIOS Desktop Utilities

Macintosh files are handled properly with "dt" enhanced UNIX commands incl. rm, mv, cp, set, ls, mkdir, touch, upd, chmod, chown, and chgrp. This allows powerful scripted workflows.

Additional Features

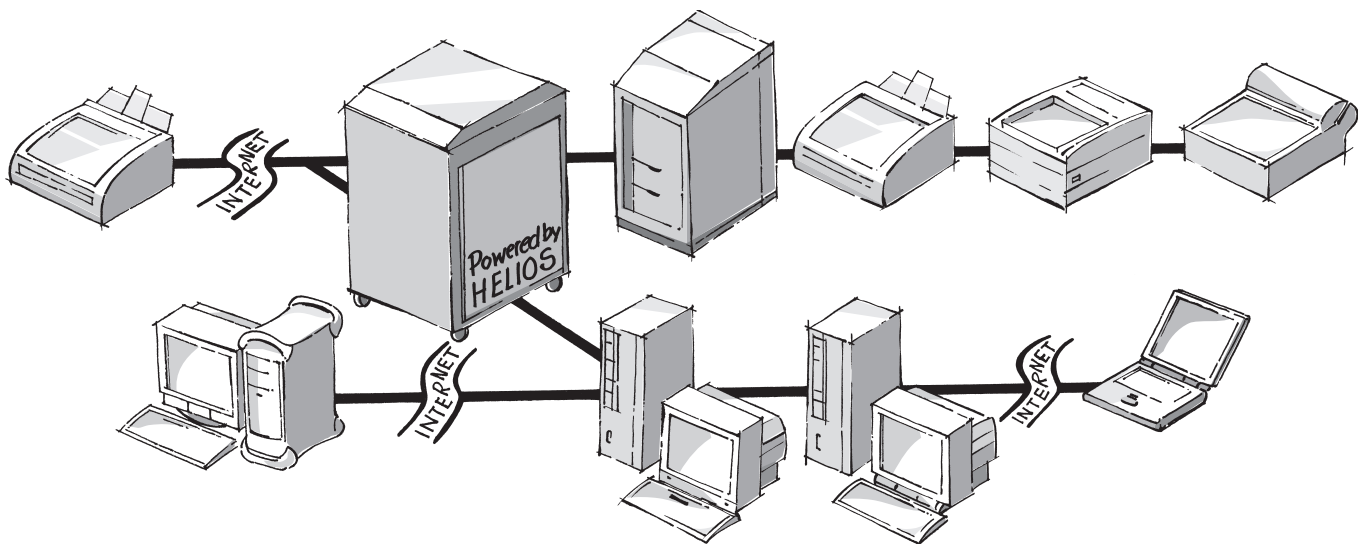
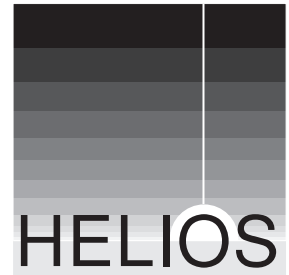
EtherShare time server for Mac OS 9 clients. The server-based "vpoll" and Macintosh-based "LanTest" tools help to analyze and troubleshoot the network. Detailed logging and accounting.

Flexible Licensing Scheme

The server license is tied to a specific machine and a certain number of users. There is a 5 or 20 user server base license available. EtherShare user expansions are available in steps of addl. 10 or 100 users. Optional maintenance agreements: Internet Update Access, Software Upgrade Service, cold spare licenses.

PCShare 3.1

Highest-Performance Server for Windows Clients



HELIOS PCShare allows easy integration of powerful servers into Windows networks. It provides an extremely fast, reliable, feature-rich Windows-compatible file and print server to unlock UNIX performance for Windows PCs. It is fully compatible with standard Windows programs, including multiuser applications and excels in ease of use. Sharing files and printers is simple and straightforward because there is no additional software necessary for Windows clients. Windows users enjoy full Windows compatibility, mounting drives and printers via the Windows network browser. PCShare ensures a smooth growth path.

It scales from one user to hundreds of nodes, from entry level workstations to the most powerful multiprocessor RISC servers, from a single Ethernet to complex internets. It is a great link between Windows-based networks and powerful UNIX systems. With PCShare's compatibility to Windows NT file and print services users will not recognize if the server is switched to a faster and more reliable UNIX-based server. Even concurrent use of Windows- and UNIX-based servers is possible.

Smart Ideas for Better Networking.

The PCShare built-in DHCP/ BOOTP server allows automatic distribution of TCP/IP configurations to any Windows, Macintosh or other devices connected to a server network port. With its DHCP backup server capability all DHCP/ BOOTP clients will continue to work if the main server fails. The menu-driven administration supports easy setup of users, groups, volumes, printers and DHCP from any Windows, Macintosh or UNIX system in the network. The PCShare name service routing allows viewing all Windows devices connected to any network port of the server. Remote Windows PCs can be integrated via WINS.

PCShare is designed with cross-platform use in mind. It tightly integrates with UNIX, and the optional HELIOS EtherShare for Macintosh clients. It offers sophisticated printing and – with HELIOS ImageServer – a full OPI solution with ColorSync/ICC color management for Windows clients.

HELIOS supports a variety of server platforms with equal feature sets, and same release dates.

Features & Benefits

Ease of Use

- Easy to install, administer, use
- No client installation necessary
- Menu-driven administration

Server Features

- Windows NT compatible file and print server (SMB/CIFS)
- Remote network drives and printers over the Internet
- Browser, WINS and WINS proxy name server
- DHCP main and backup server
- Routing between network cards
- Printing to local PC printer
- Windows printer driver name can be specified for each queue
- Printing to EtherShare "lpr" queues
- Japanese Shift-JIS support
- EtherShare volume compatibility

Client Support

- Windows NT 4, 2000, XP
- Windows 95, 98, ME
- Windows 3.1, 3.11, MS-DOS

HELIOS Base Features

- Advanced Printing System
- Unicode/UTF-8 file representation

Flexibility

- All major UNIX server platforms

System Requirements

PCShare Server

- One of the following UNIX systems:
Sun Solaris, IBM RS/6000 AIX, HP-UX, SGI IRIX, Compaq Alpha UNIX, Apple Mac OS X and Linux Pentium
- 32 MB RAM; 2 MB per active client
- TCP/IP network connection, optional NFS, NIS/NIS+, DNS, ...

Product Highlights

Server Installation

- Fast, menu-driven installation from CD-ROM
- Easy installation for system administrators
- Automatic creation of a public volume with all PCShare programs and utilities
- Automatic creation of a guest account

Client Installation on Windows

- No installation necessary because PCShare 3 is compatible with the Windows built-in networking software
- Use DHCP or specify TCP/IP client setup

Client Installation DOS, Win 3.x

- Fast Installation from only one PC disk with the menu-driven PCINST program

Server Administration

- Convenient, fool-proof server management with menu-driven PCADMIN program
- Special system & printer administrator groups
- Remote administration from any PCShare PC or terminal
- Manage UNIX users, groups and printers; optionally based on NIS (yellow pages)
- Export volumes and printers for PCShare client access
- Gather extensive statistics on usage etc.
- Check client network configuration & status
- Define DHCP TCP/IP configuration

A product from:

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- At least one network adapter; multiple adapters for load balancing in heavy-duty environments

Windows clients

- Any TCP/IP networked Windows PC
- Optionally, HELIOS EtherShare to integrate Macintosh clients

PCShare Client for DOS & Win 3.1.x

- DOS 3.3 to 6.2, Windows 3.1x

- Security options

- Additional WINS server or client configuration, Workgroup/Domain name and server name configuration

File Services

PCShare offers extremely fast file services. Due to its great performance PCShare allows hundreds of PCs to work on a server. All UNIX disk space incl. NFS volumes, CD-ROM, MO, etc. can be used for PC file services. UNIX directories appear as Windows drives. DOS & Windows file and record locking is fully supported.

- Unicode volumes store all file names in 16-bit Unicode/UTF8 format. This allows the same file names to be used from UNIX, Windows and Macintosh clients, including special characters.
- Automatic name services routing between multiple network ports

Print Services

PCShare allows printing to any Windows local printers and to any UNIX connected printer, as well as to all EtherShare queues. PostScript and "raw" printing is supported. A very powerful character mapping converts print data between different character sets.

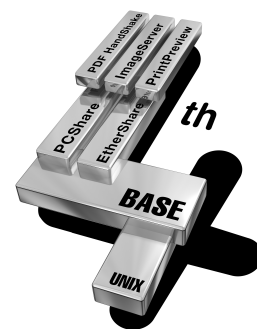
DHCP Server

The PCShare built-in DHCP server supports Windows and Macintosh clients. The DHCP server automatically distributes DNS, router, WINS and client TCP/IP addresses. A second server can be used as a DHCP backup server in case the main server fails.

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

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Security Options

PCShare supports TCP/IP access lists to deny or allow networks and/or nodes to access the server.

Cross Platform Support for Macintosh and Windows clients

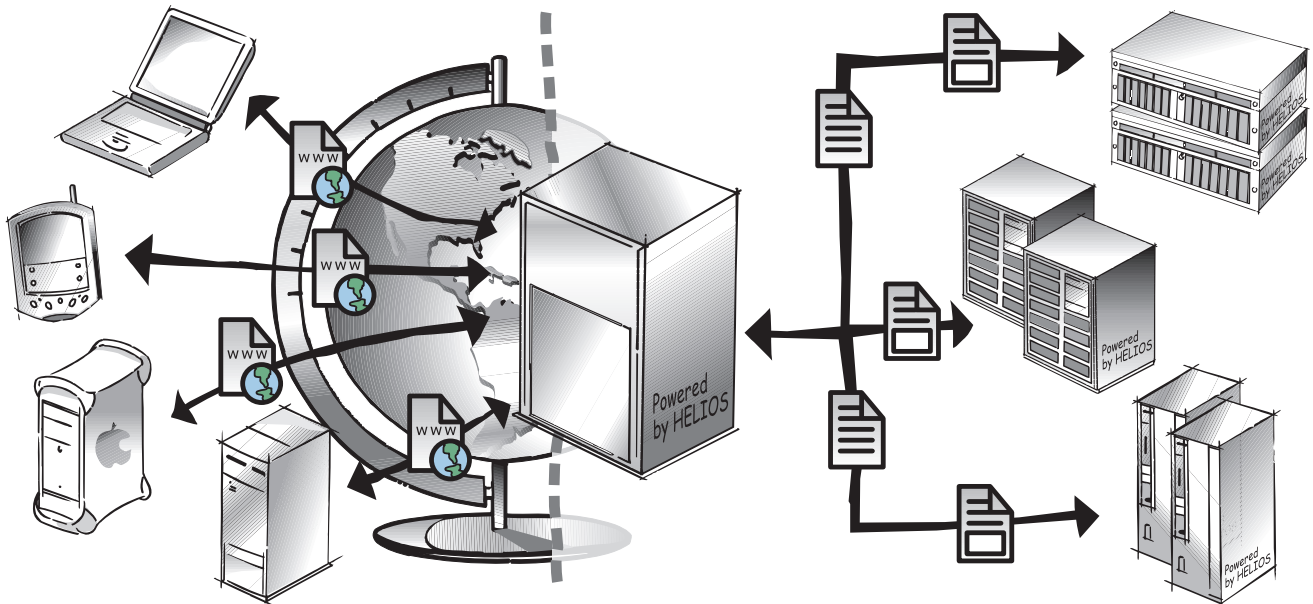
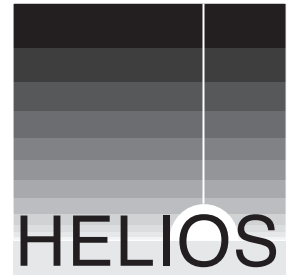
	PCShare	Samba	Sun-LinkPC
Unicode characters (Umlauts, öäüë, etc.)	✓	no	no
File-Locking	✓	no	no
Record-Locking	✓	no	no
Automatic Mac Data/Resource handling	✓	no	no
FileID (Alias) support	✓	no	no
Automatic OPI layout files	✓	no	no
Automatic OPI replacement	✓	no	no
Shared Printer-Queues and Jobnames	✓	no	no
Shared usernames and passwords	✓	no	no
UNIX process security per user	✓	✓	no

Flexible Licensing Scheme

The server license is tied to a specific machine and a certain number of concurrent users. There is a 5 or 20 user server base license available. PCShare user expansions are available in steps of addl.10 or 100 users. Optional maintenance agreements are available: Internet update service, software upgrade service, cold spare licenses.

WebShare 1.0

Highest-Performance Server for Real Time Remote File Access



HELIOS WebShare enables fast and secure real time file access via any Web browser. Now authorized users can easily use your file server wherever they are, without exposing the server to the Internet. Working with files remotely has never been easier.

Easy remote file access by customers, suppliers, business partners or employees will eliminate the need to make files available via e-mail, burning CD's, or FTP, which often cause compatibility problems and occupy resources. Automatic e-mail notification allows monitoring when files are being accessed. The easy-to-use Web interface means no user training is required.

Remote collaboration becomes a reality with the fully automated two-way access to the server data. File browsing and management allow authorized users to manage files and folders remotely, similar to the local Windows Explorer or Macintosh Finder. Optional HELIOS ImageServer and PDF HandShake provide remote document previews, and offer Internet clients a live content verification/proof of PDF, QuarkXPress, and

Smart Ideas for Better Networking.

InDesign documents as well as all major image formats. Remote OPI allows Web clients to download OPI low-resolution images from the server and to upload completed documents for later printing with high-resolution images.

Security is provided by a two-tier server application. The WebShare WebObjects server handles the Web user interface on a separate server to ensure that the main file server is not available on the Internet. The server file system security will be enforced according to the user credentials. Sharepoint based security allows further restrictions per user, e.g.: browse, preview, download, upload and file management. Additional SSL encryption is supported.

Highest performance. HELIOS WebShare is highly optimized for secure remote file access and provides several times faster download and browsing performance compared with FTP, and with WebDAV, AFP, and SMB/CIFS volumes mounted via the Internet.

Features & Benefits

Ease of Use

- Easy to install, administer, use
- Any Web client supported

Server Features

- Two-tier server application
- Sharepoints with custom permissions
- Web based server administration
- Customizable user interface
- Secure user authentication

Remote File Access

- Browse files and directories
- Download files/folders as on-the-fly ZIP compressed archives
- Upload files
- File management: duplicate, copy, rename, delete files and folders
- Compatible with Windows and Macintosh file formats

Remote File Preview (Optional)

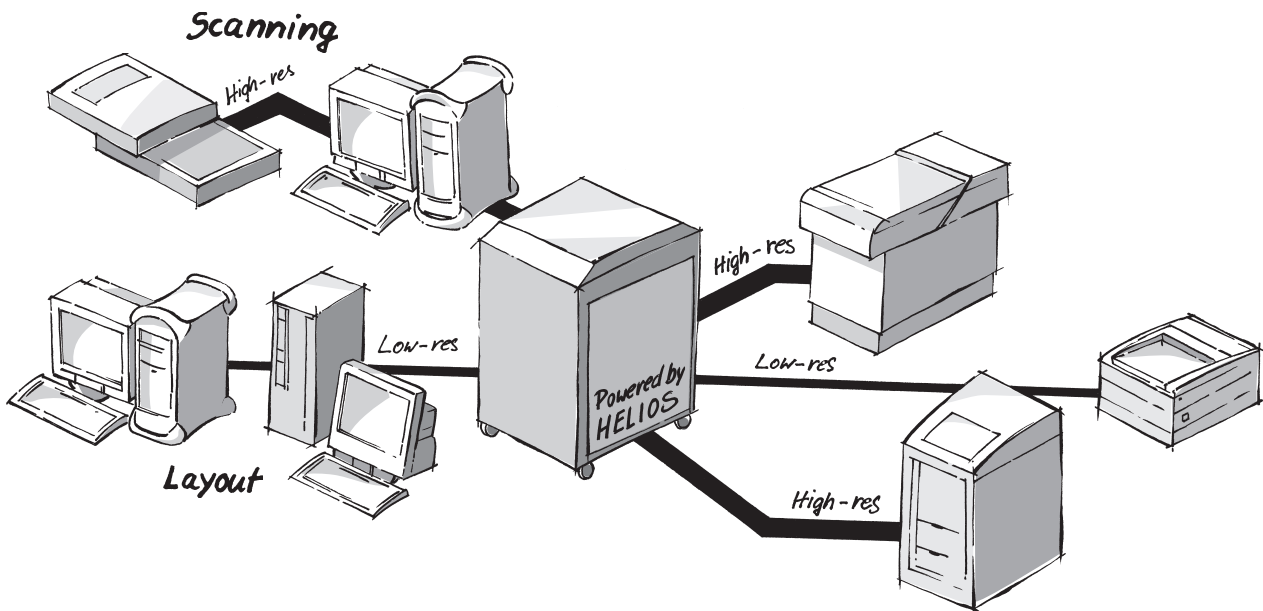
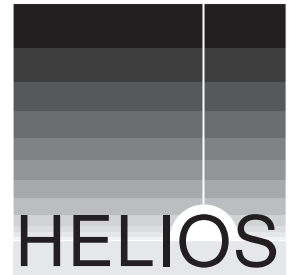
- QuarkXPress Mac/Win documents
- Adobe InDesign Mac/Win documents
- Acrobat PDF documents
- TIFF, EPSF, DCS-1 & 2, Scitex-CT, JPEG, PICT, BMP and PNG images

Flexibility

- All major server platforms

HELIOS ImageServer 2.5

Server-based OPI Image Replacement and Conversion with Color Separation and Proof Printing Support



HELIOS ImageServer is a server-based image replacement and conversion solution. It is designed to shift very CPU-intensive image processing tasks from desktops to servers.

OPI benefits There is no waiting time for placing and printing documents containing OPI low-res layout images. Another benefit is that the server can produce output many times faster than any desktop DTP application. This keeps all devices busy to produce faster output. An OPI example:

	50 MB TIFF	50 MB EPSF	50 MB DCS1
Placement & Printing without OPI			
Placement	50 MB	3 MB	3 MB
Composite	100 MB	100 MB	n/a
Separation	250 MB	400 MB	100 MB
Placement & Printing with OPI			
Placement	3 MB	3 MB	3 MB
Composite	6 MB	6 MB	6 MB
Separation	15 MB	24 MB	3 MB
XPress Omit TIFF & EPSF with OPI			
Composite	1 KB	1 KB	1 KB
Separation	1 KB	1 KB	1 KB

Network traffic and image processing in DTP client using 50 MB images (300 dpi) for placement and printing from a server volume.

OPI automatically creates a low-res image of all supported file formats for placement in any layout application. It replaces layout images on-the-fly with optimized high-res images during output. Conversion of different colors and resolutions is automatically done without additional copies of the high-res image. Remote users can be provided with layout images and return complete pages for final output.

Image Conversion ImageServer supports a wide range of image formats and color spaces including clipping paths and spot colors. It can convert images to any supported file format, resolution, compression and color space to be used for printing, Web or any other purpose. HELIOS PDF HandShake adds PDF file format support.

Server-based color management Using ColorSync/ICC profiles, ImageServer can keep the original high-res images in RGB, Lab or CMYK color space on the server and repurpose them for different conversion and printing needs. ICC profiles are applied on-the-fly for excellent image conversion, color matched proofs and composite or separated printing.

Features & Benefits

Ease of Use

- Administration from Macintosh

Image Features

- Optimized image conversion tools
- Script Server: automate tasks via hot folder Perl/shell scripts (no polling)
- File Formats: TIFF, EPSF, DCS1&2, ICS, Scitex-CT, JPEG, PICT, BMP, Photoshop, PNG and PDF (option)
- Color spaces: CIE-Lab, XYZ, RGB, CMYK, Indexed, Multitone, and Spot
- Compressions: ZIP, JPEG, G3/4, ...

OPI Image Replacement

- Conforms to OPI 1.3 & 2.0 specs
- Handles largest output requests
- Automatic layout file creation after file has been saved on server (no polling)
- Omit TIFF & EPSF support
- Colorized TIFF printing support
- PostScript Level 1, 2 and 3 support
- On-the-fly output image compression
- On-the-fly OPI image replacement during output (no temporary files)

Color Management

- Server-based on-the-fly color separation/proof matching and conversion
- Heidelberg ColorSync/ICC

Cross-Platform Client Support

- Macintosh, Windows, UNIX clients

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System Requirements

HELIOS ImageServer

- 64 MB RAM in total, 8 MB per active image conversion/print device
- EtherShare 3.1 or newer is required
- PCShare 3.1 or newer is required for Windows clients
- Macintosh, Windows, or UNIX workstation to place and print OPI layout

Product Highlights

Complete Cross-Platform Solution

ImageServer supports Apple Macintosh, Windows and UNIX-based layout workstations and offers true transparent cross-platform functionality.

Integration with HELIOS Products

The EtherShare Admin program can handle all configurations. EtherShare and PCShare inform the OPI and Script Server about any events in their directories so that proper actions can be taken.

Script Server Features

The "Script Server" service allows defining hot folders to automate processing tasks by dropping files into a folder to be processed by a custom script.

- UNIX/Perl/shell scripts are supported
 - Event-driven Script Server (no polling)
 - Administration via EtherShare Admin
- Easy sample scripts in Perl are included

Server Image Conversion Features

- Powerful image conversion tools
- UNIX command tool with over 100 professional image conversion options, e.g. spot color, alpha channel, clipping mask, ICC profiles, etc. handling. Allows to convert on-the-fly between any supported file format, color space, compression and resolution, including ICC/ColorSync transformations/tagging.
- Web Browser optimized images
- True color PNG images including automatic clipping mask/alpha support in any specified pixel/resolution.

A product from:

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images to the HELIOS spooler

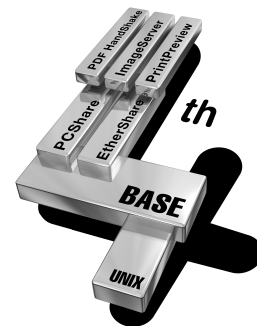
- Any non-OPI-compatible software which can place and print EPS files
- OPI-compatible applications like XPress, PageMaker, Freehand, InDesign, Ragtime, etc.
- PDF HandShake is optional to support PDFs for conversion and OPI
- PrintPreview is optional for print jobs

OPI Features

■ Supported OPI standards
ImageServer complies with Adobe's OPI 1.3 and 2.0 specifications, incl. Quark extensions for EPSF and full support of Omit EPSF & TIFF files.

■ Automatic Layout File Generation
As soon as image files are created or changed on the server by EtherShare or PCShare clients, layout files are generated. OPI layout creation can be turned on for the entire volume (no hot folder required, no restrictions on OPI folders). Layout files are stored in "layout" subdirectories. Alternatively, layout file generation can be done manually or with UNIX scripts. These features allow powerful, versatile, reliable OPI implementation.

- Flexible Layout Image Options
TIFF, Mac-EPSF, PC-EPSF, JPEG, or PNG low-res with any desired resolution
- Color-correct printable CMYK low-res
For RGB or CIE Lab images; RGB or CIE Lab low-res as option
- HELIOS OPI TuneUP XT for XPress
Additional support of foreground and background colorized lineart and grayscale images to work with OPI printing and PDF generation from OPI print jobs. Quark XPress 5 Mac/Win (3, 4 Mac only)
- Output Options (on-the-fly no files)
PostScript Level 1, 2 and 3 support with output compression: ZIP, Compress, JPEG, CCITT-G4, OPI image replacement during output (no temporary files), Image downsampling and cropping during composite or separated output.



generation

Supported File Formats

- File Formats: TIFF, PC-EPSF, Mac-EPSF, DCS1, DCS2, ICS, Scitex-CT, JPEG, PICT, Photoshop, BMP, PNG and PDF (PDF HandShake option)
- DCS files are merged into composite
- Color Spaces: Line art, Grayscale, CIE Lab, XYZ, RGB, CMYK, Indexed, Multitone, and Spot
- Compressions: ZIP, JPEG, Compress, CCITT-G3/4, RLE, PackBits, etc.
- Support for Down & Upsampling, Cropping, Rotate & Flipping
- Support of clipping paths and alpha channels which can be enabled or ignored per server and volume setting

HELIOS OpenImage SDK

API allows adding new file formats, etc.

ICC Color Matching/Separation

ImageServer contains ColorSync, the ICC-compliant color matching method cross-licensed from Heidelberg. Color matching is applied for layout generation, color proof printing, final output and image conversion. High-res raster or PDF images are automatically color matched on-the-fly to CMYK separations, to RGB, or to CIE Lab. ImageServer recognizes embedded ICC profiles or references in high-res images. ICC profile tagging tools to embed ICC are included. This late-binding workflow saves resources, allows optimum matching to specific devices, and preserves the integrity of original data for later re-purposing.

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

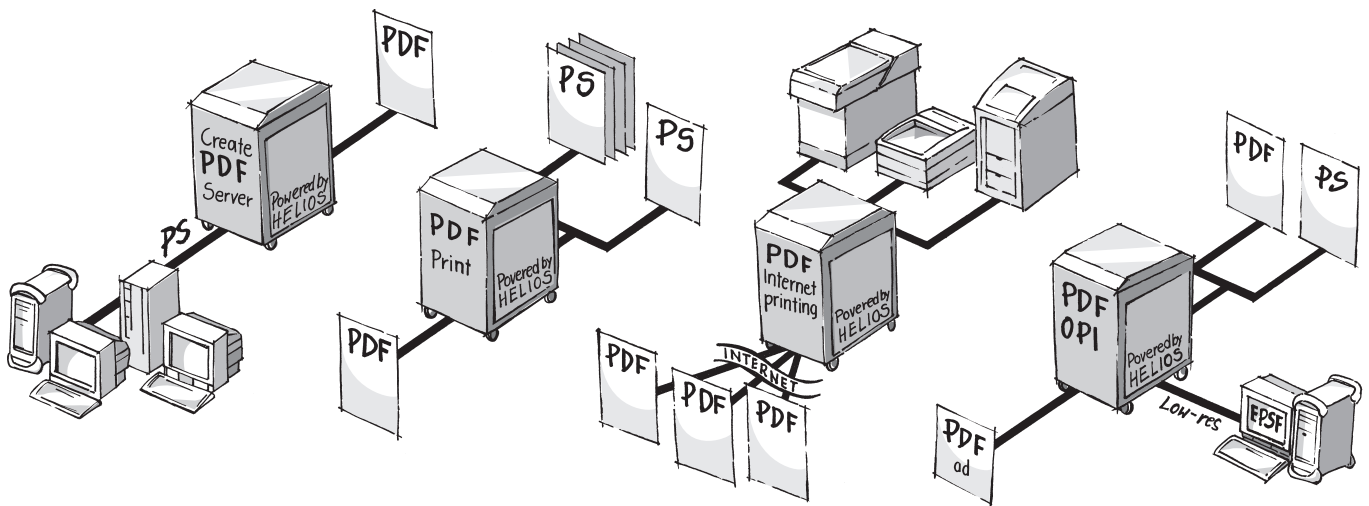
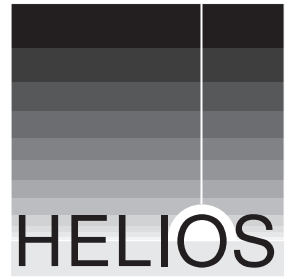
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PDF HandShake 2.1

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



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, QuarkXPress 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, pre-flighted, customized, and printed to a specified queue. This solution enables PDF printing over the Internet via any Web browser.

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

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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

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

A product from:

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- 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

- 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

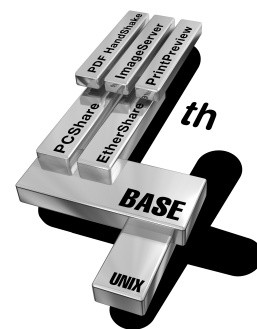
Create PDF Server

- 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

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

your HELIOS partner:

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settings per queue allow different PDF creation settings

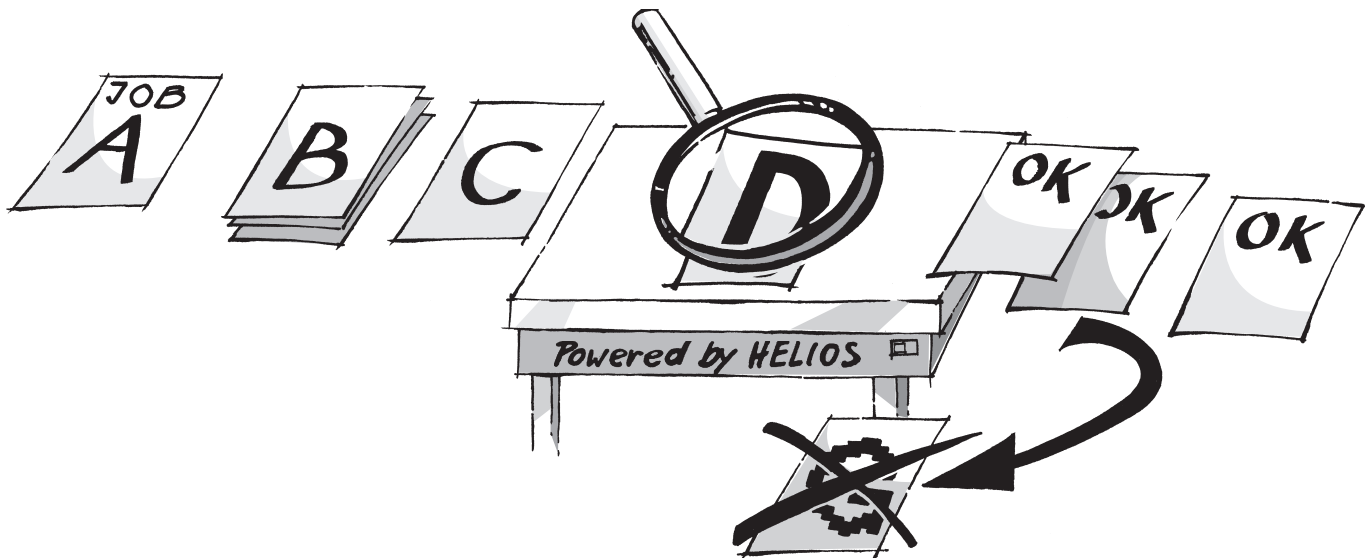
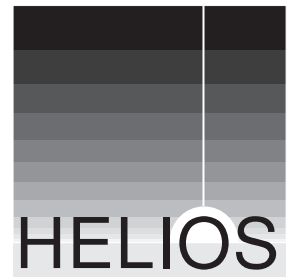
- Acrobat Distiller is used with the HELIOS Create PDF Server application on one or more dedicated Macintosh or Windows machines for PDF creation
- Scalable via load balancing queues Multiple PostScript jobs can be processed in parallel on all available Create PDF Server machines.
- No temporary PostScript 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

PrintPreview 2.0

Convenient & Reliable Production Check up to the Last Minute



HELIOS PrintPreview offers convenient and reliable last minute production checks of print jobs prior to final output. Any PostScript job sent to a HELIOS EtherShare spool queue, be it separation or composite, can easily be previewed as a PDF file. It does not matter which application on what platform generated the print job. The previews are based on the final output devices' PPDs and are true representations of the final output in all aspects regarding completeness and accuracy of page elements, correct colors, typography, and font usage. The previews are stored on the HELIOS server. They contain job ticket information and the final pages in composite and/or separation mode. They can be accessed and printed from any client with a PDF browser e.g. Adobe Acrobat Reader on PC, Macintosh, or UNIX.

On Apple Macintosh, the previews can easily be opened by double clicking their preview icon in EtherShare Admin's spool queue window. The operator can check the jobs on screen or proof printer and release them for production, e.g. with a simple "drag and drop".

This forwards the jobs to the proper destination spool queues for final output.

The previews are color-matched according to ColorSync/ICC in order to simulate the final colors on a monitor for a soft-proof or on a color printer for a hard-copy proof. Even locally attached PC ink-jet printers can be used for that purpose and will show exactly the colors which will be printed – be it on a newspaper press, a high-quality magazine press, or a short-run CTP-system.

PrintPreview is based on HELIOS Base and EtherShare. It uses the font server and the included PostScript 3 fonts and all the fonts embedded in the job to create a typographically correct preview.

The size of the previews depends upon page format and chosen resolution. It is typically just a few hundred kilobytes per page. This allows not only fast job proofing on any Macintosh or PC in the local network, but also convenient remote proofing over modem, ISDN, or the Internet.

Features & Benefits

Ease of Use

- Easy to install, administer, use

Flexibility

- PostScript Level 1, 2 or 3 emulation
- True color previews of separated PostScript jobs
- Previews of final separations including spot color plates
- RGB, CMYK, or CIE-Lab previews, e.g. for soft-proofing on monitor, for hard-copy proof prints
- Previews of pages with PostScript errors including all drawing until the error occurs

Meticulous Previews

- Completeness of page
- Accuracy of all page elements
- Proper typography and fonts
- Color fidelity
- Page geometry according to the PPD of the final output device

Smooth Workflow

- Full control in EtherShare Admin: Preview print jobs on screen & release/forward them for production
- Preview jobs from any Macintosh or Windows client
- Preview & proof to local Macintosh or PC printer, including non-PostScript

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System Requirements

PrintPreview on Server

- HELIOS EtherShare 3.1, HELIOS PCShare 3.1 (optional)
- For best performance, at least 20 MB RAM per active PrintPreview spool queue is recommended

Supported PostScript Jobs

Any separated or composite PostScript

job; ADSC compliance recommended

Supported Workstations for Previewing

- Apple Macintosh with EtherShare Admin
- Any Macintosh, Windows, or UNIX station with Acrobat Reader
- Any Web browser with PDF support locally or remotely via Internet

Product Highlights

Supports Any PostScript Job

It does not matter on what platform and from which application a PostScript job was created. Standard separated jobs, separated jobs with any number of spot color plates, and composite jobs are supported.

Structure of Preview Files

PrintPreview creates PDF preview files for any PostScript job sent to an EtherShare spool queue with previewing enabled. The preview contains the separations and optionally also a combined color view of the whole job. Usually, each page in the document printed ends up as a chapter in the PDF preview with the four CMYK separation plates, any additional spot color plates, and a composite color view as pages in that chapter; these pages are bitmaps. The preview always starts with a job ticket page.

Preview's Job Ticket Information

PrintPreview includes text-based job ticket information at the beginning of each preview document. It tells the necessary details about the job, including:

- EtherShare spool queue used
- Print client's name
- Date, time, and name of print job
- Number of pages in the PostScript job (which for separation print jobs is usually not the same as the number of pages of the original document)
- Preview resolution and color space
- ICC profile settings as specified for the final printout and for the preview proof simulation

A product from:

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Parameters for Preview Files

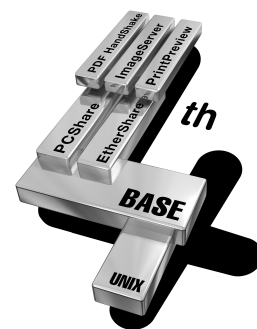
Technically speaking, PrintPreview implements a new kind of printer connection for the EtherShare spooler. With PrintPreview installed, the EtherShare administrator can set up spool queues which do not print to the usual output devices, but into a PDF preview file instead. The following options are available:

- Inclusion of separation plates
- Inclusion of composite color pages
- Resolution of PDF preview bitmap & anti-aliasing
- On-the-fly ZIP or JPEG compression

If a postprocessing "hold" queue was assigned to a PrintPreview spool queue, the hold queue's PPD setting will be applied. The administrator can also set color management parameters and, if ImageServer is installed and the spool queue is OPI enabled, all the usual OPI parameters.

Accuracy of Preview Files

The preview file provides an accurate representation of the final output in all relevant aspects: completeness of page, correctness of page elements incl. OPI resolving, proper typography and fonts, color fidelity, and page geometry according to the final RIP's PPD. The previews allow reliable production checks just before the jobs are issued to the final RIP or press – a must for direct-to-plate/press/paper workflows or short-run digital color printing.



generation

Access to PrintPreviews

Preview files are stored in the queue's spool directory or in a shared volume. They can be viewed and handled by any client with a PDF browser and with proper access to these directories, be it access over the local area network or even over optionally installed FTP or Web servers. Because the PDF previews are usually very compact in size remote production checks via modem, ISDN, or Internet are feasible.

Preview Handling with EtherShare Admin

For viewing in Acrobat Reader, previews can be opened within EtherShare Admin by a double click in the spool job listing. Jobs are then easily checked on-screen and released for final production or forwarded to further processing, e.g. to print hard-copy proofs.

Color Proofing with PrintPreview

PrintPreview queues can be set up to simulate the color capabilities of the final device on a monitor or printer. This offers convenient soft-proofing of the whole document with all its colors – be it raster images, vector graphics, text, graphical elements, etc. – on screen as well as easy hard-copy color proofs. Even color proofing on suitable, non-PostScript PC ink-jet printers is an option – achieved by printing the preview's proper RGB or CMYK bitmap with Acrobat Reader.

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

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