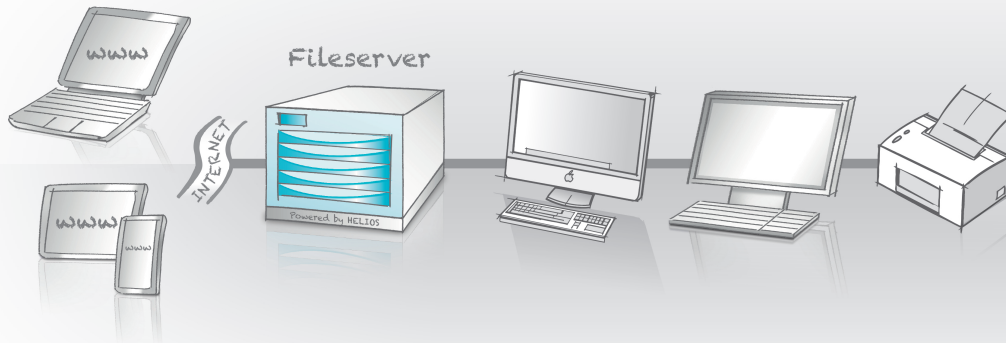
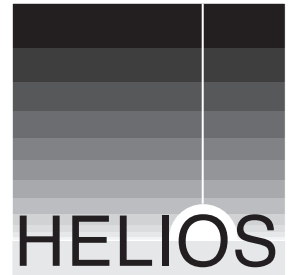


Universal File Server G8

Cross-platform Server for Mac, Windows, Web & Mobile Users



HELIOS Universal File Server G8 is a turnkey software solution for all major server platforms, to provide file and print server services to Mac and Windows users, and Internet portal file access to web and mobile device users.

Cross-Platform Networking integration enables different network client platforms to share the same server volumes, and offers compatibility and performance advantages of all client protocols.

HELIOS integration includes cross-platform support for file and record locking, user names, group names, user authentication, file system permissions, volume access permissions, file labels and comments. This simplifies deployment of multiple protocol networks.

Synchronization Services allow regular folder/volume data copies to a second disk, volume or NFS storage. Client file and folder synchronization between the company server and remote user workstations and mobile devices is provided with enterprise grade security.

Smart Ideas for Better Networking.

Spotlight Compatible Search enables Mac, Windows, web, and mobile users to search for server files by name, text content, and metadata in seconds, even in very large volumes.

Uniform Server Administration via HELIOS Admin allows Windows, Mac, and UNIX users to manage remotely all server settings (users, volumes, printers, settings, logs, etc.).

HELIOS IT Monitor Server adds IT infrastructure monitoring with push notification to admins upon server overload or service failure.

Server Solutions with cross-platform networking is exclusively provided by HELIOS Software with the HELIOS Universal File Server. It scales well from small sites with only a few clients to enterprise sites with the most demanding requirements, and always remains easy to administer.

Features & Benefits

Ease of Use

- Easy to install, administer, use
- Remote server administration from Mac, Windows, and UNIX

Included Products

- HELIOS Base G8
- EtherShare G8
- PCShare G8 (not on Windows)
- WebShare G8
- WebShare Manager G8
- Document Hub for iOS and Android
- IT Monitor Server G8

Cross-Platform Client Support

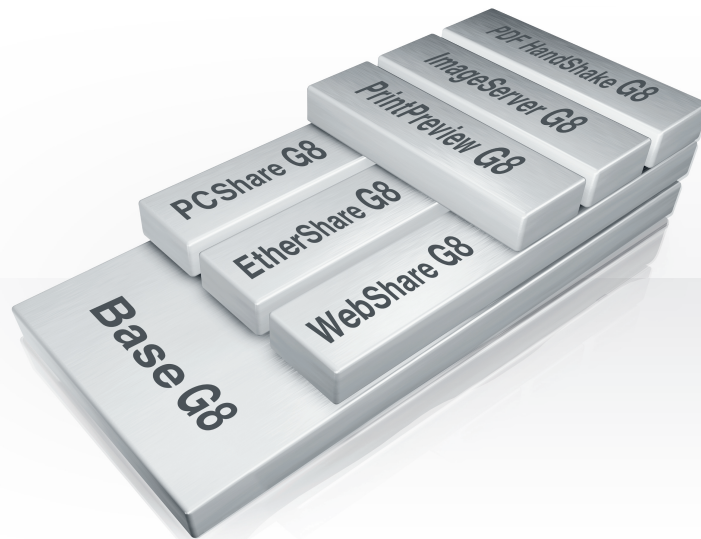
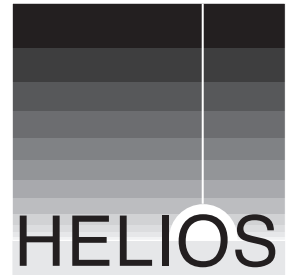
- Mac, Windows, web, iOS
- Common shared volumes
- Web portal for collaboration
- UTF-8 based file names with meta data and file streams support
- Authentication services for local users, LDAP, AD/PDC, and NIS
- Advanced printing system

System Requirements

- Works on all major server platforms
- See the respective data sheets

HELIOS Base G8

Superior Server Foundation for all HELIOS Products



HELIOS Base G8 is the innovative foundation used by all HELIOS G8 products. It incorporates the advanced server technologies developed by HELIOS over many years. These core HELIOS technologies include the service controller, printing system, authentication server, remote administration, networking and imaging libraries, tools and more. HELIOS Base provides the foundation for all HELIOS products.

Ease of Use The concept of HELIOS Base is to make your server easy to use and manage. Installation, configuration, and updating are very straightforward. Even switching between supported platforms takes only minutes, and preserves all custom HELIOS settings.

Server Fail Safety HELIOS software is made for mission-critical environments. HELIOS Base adds another level of server fail safety. The 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. If any HELIOS service fails the HELIOS Service Controller will restart the service.

Smart Ideas for Better Networking.

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

HELIOS Authentication Server supports LDAP, AD/PDC, NIS and local users. Even supports mixed setups, e.g. LDAP, AD/PDC and backup servers.

HELIOS mDNS Server ("Bonjour") enables automatic discovery of computers, devices, and services on networks.

HELIOS Index Server search system indexes file names, text, and metadata, for Spotlight compatible searches for file names and content.

HELIOS DHCP Server provides TCP/IP configurations to Windows, Mac, and other network devices.

Synchronization Service allows synchronizing folders or entire volumes to a second folder/volume. Allows syncing to external storage (e.g. a second location) mounted via NFS. The synced data copy can be published for easy client access.

There is no extra cost for HELIOS Base.

Features & Benefits

Ease of Use

- Easy to install, administer, use
- Remote server administration from Mac, Windows and UNIX

Server Features

- Server fail safety via the HELIOS Service Controller. Automatic logging and restart of failed services
- Advanced printing system ("lpr")
- Authentication server with LDAP, AD/PDC, NIS and local user support
- SMTP messaging & mail tool
- Process auditing and tracing tools
- Unicode 16-bit character support
- Easy migration to other platforms
- DHCP main and backup server
- mDNS server ("Bonjour")
- Index Server for Spotlight searches
- CLI "dt" utilities (mv, rm, cp, ls,...)
- Synchronization Service
- HELIOS update installer w/ rollback
- Server preferences repository
- ICC profiles repository
- HELIOS SDK available

Flexibility

- All major server platforms

System Requirements

Supported HELIOS Base Server

- One of the following server systems: Linux, Solaris, Windows, macOS
Details: www.helios.de/platforms
- TCP/IP network connection, optional NFS, LDAP, AD/PDC, NIS, DNS, ...

Product Highlights

Server Installation

- Fast, menu-driven installation, easy installation for system administrators
- Extensive documentation in PDF and online manuals

Server Administration

- Remote server administration from macOS, Windows, and UNIX via HELIOS Admin over TCP/IP and HTTP
- Manages local users, volumes, printers, and server settings, TCP/IP access lists, logs, etc.
- Remote server file browsing & editing
- RSA 1024-bit encrypted passwords
- “srvutil” to manage services
- Open files tool
- Central start/stop HELIOS scripts
- CLI “dt” utilities for file management

Server Fail Safety

All services are managed and monitored by the HELIOS Service Controller.

- If a process fails, other processes are not affected
- Automatic reporting of problems
- Automatic service restart if required
- Allows third-party integration

HELIOS Update Installer

Each HELIOS file has a version number managed by our version control system

- Automatic download of updates
- Automatic installation of updates
- Option to roll back installed updates

A product from:

HELIOS Software GmbH
Steinriede 3
30827 Garbsen
Hannover, Germany
Internet: www.helios.de

- 24 MB free RAM for HELIOS Base, additional memory will be used by caching and provides faster performance. Memory requirements for other products – see data sheets

Windows

- Perl 5.8.4 or newer

Authentication Server

- Central server supports authentication of local host users, LDAP, NIS, and Windows AD/PDC users
- “authutil” tool to look up accounts and verify/change user passwords
- Optional script to allow/deny logins by user, service, TCP/IP, time, etc.

DHCP Server

Built-in DHCP server automatically distributes DNS, router, WINS and TCP/IP addresses to Windows and Mac clients. Use 2nd server as DHCP backup server.

HELIOS mDNS Server (“Bonjour”)

- Supports multiple network interfaces
- Proxy for non-Bonjour devices
- Tools and API included

HELIOS Index Server

Indexes full text, file and image meta-data, including XMP, IPTC and EXIF. Answers Spotlight compatible queries for file content and keyword values.

Server Auditing & Monitoring

Live monitoring and tracing of any HELIOS service and/or individual session, to isolate/identify problems. It complements network and system traces.

Unicode

- All HELIOS services utilize Unicode
- Unicode UTF-8 is used for file names
- “uniconv” tool converts encodings
- All major encodings are supported
- HELIOS SDK to add/use encodings

Products using HELIOS Base G8

- HELIOS EtherShare G8
- HELIOS PCShare G8
- HELIOS WebShare G8
- HELIOS ImageServer G8
- HELIOS PDF HandShake G8
- HELIOS PrintPreview G8
- HELIOS IT Monitor Server G8

Migration to Other Platforms

All installed HELIOS products and settings can be transferred to any supported platform. All server settings including volumes and printers are automatically re-created on the new system by transferring the HELIOS “var” folder.

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 lpr/lpd compatible, supports PostScript, PDF and other jobs with many features:

- Error and hold queues for all queues to reprint and monitor the jobs done
- Print job accounting
- Remote LPR printers – LPR Bonjour
- 64-bit print jobs (no 2/4 GB limit)
- Printing via TCP/IP stream (socket)
- Print to disk including compression
- Time queue to specify printing times
- Balance queue for load balancing
- Clone queue for multiple workflows
- Print to Windows SMB/CIFS printers (requires PCShare G8)
- Print to Create PDF queue (requires PDF HandShake G8)
- Print to PDF bitmap proof queue (requires PrintPreview G8)

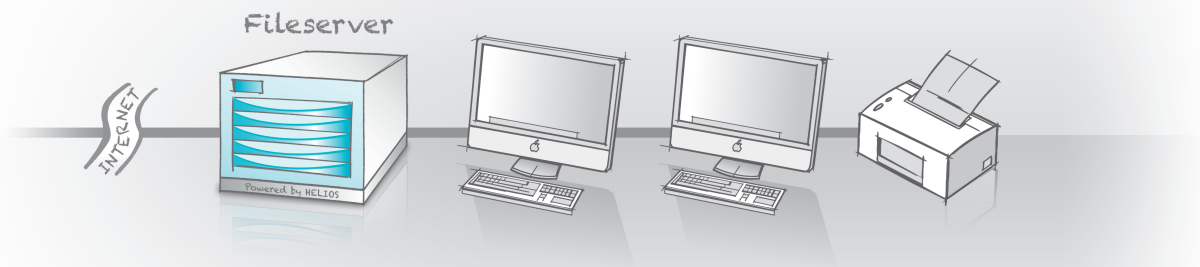
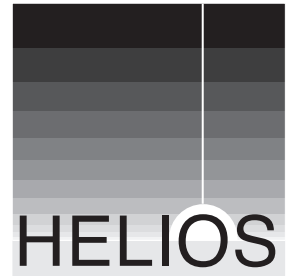
More details on the HELIOS website: www.helios.de/web/EN/products/start.html

Your HELIOS partner:

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EtherShare G8

Highest-Performance Server for Mac Clients



HELIOS EtherShare G8 allows easy integration of powerful servers into Mac networks. It provides an extremely fast, reliable, feature-rich Apple compatible file and print server to unlock server performance for Mac clients. It is well known for its reliability, performance, and ease-of-use.

macOS and AFP 3.3 Support ensures full compatibility with Apple standards, including support of Spotlight searches and Time Machine backups. It works with any Mac out of the box, without the need to train users. EtherShare installs on the server in minutes. All further management is done remotely via HELIOS Admin with an easy to use GUI interface. It is simple to configure users, groups, volumes, print spoolers, server settings, log files, etc. EtherShare offers impressive file and print services with easy remote administration, Spotlight searches for file names, text, and meta-data, and the ability to save Time Machine backups to the server.

The TCP/IP based file server can fully utilize faster networks like Gigabit or 10 Gigabit Ethernet.

Smart Ideas for Better Networking.

TCP/IP Print Spooling via the HELIOS exclusive TCP printer drivers supports mDNS ("Bonjour") for easy printer selection on macOS clients, with automatic setup of the PPD. Detailed print job accounting information is easily reviewed or exported to other programs.

Authentication via LDAP, AD/PDC, NIS and local server users is fully supported by the HELIOS Authentication server included in HELIOS Base.

EtherShare Scales well from small sites with only a few Macs to enterprise sites with the most demanding requirements, and always remains easy to administer. EtherShare is tightly integrated with ImageServer, PDF HandShake, and PrintPreview to serve the widest range of prepress needs. Add PCShare and WebShare for 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
- Remote server administration from Mac, Windows and UNIX

Server Features

- AFP 3.3 file server
- Spotlight search support
- Full AFP File & Directory ID support
- Extended attributes support
- Finder tags support
- Print spooler for TCP/IP
- Time Machine backup support
- Shared volume compatibility with PCShare and WebShare

Client Support

- Mac OS 8.1 - macOS 11 or higher
- „Bonjour“ TCP printer drivers

HELIOS Base Features

- Advanced printing system
- CLI "dt" utilities (mv, rm, cp, ls,...)
- Unicode/UTF-8 file representation
- Index Server for Spotlight indexing

Flexibility

- All major server platforms

System Requirements

EtherShare Server

- One of the following server systems:
Linux, Solaris, Windows, macOS
Details: www.helios.de/platforms
- 16 MB RAM; 4 MB per active client
- At least one network adapter

Product Highlights

Server Installation

- Fast, menu-driven installation, easy installation for system administrators

Client Installation

- No special drivers for file & print services required
- Optional TCP Bonjour printer driver

Server Administration

- Remote server administration from macOS, Windows, and UNIX via HELIOS Admin
- Manages users, groups, volumes and printers, server settings and logs
- System & printer administrator groups
- Volume and printer sharing
- Server auditing/monitoring support
- TCP/IP access lists management
- Manage spool queues with “drag & drop” ease
- Handle printer accounting data
- Manage detailed accounting information including fonts used, pages, etc.

HELIOS “dt” Utilities

Mac files are handled properly with “dt” enhanced file commands including rm, mv, cp, set, ls, mkdir, touch, chmod, chown, chgrp, sync, etc. This allows powerful scripted workflows to support Mac data and resources as well as additional Windows file streams.

Time Machine Backup Support

Time Machine backups to HELIOS volumes are supported.

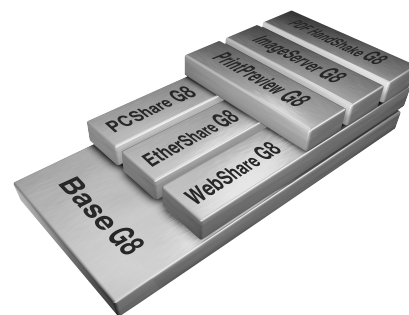
A product from:

HELIOS Software GmbH
Steinriede 3
30827 Garbsen
Hannover, Germany
Internet: www.helios.de

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7/2020

Mac Clients

- Mac OS 8.1 - macOS 11 or higher
- Optional HELIOS PCShare integrates Windows clients, WebShare allows web-based server access



File Services

EtherShare supports AFP privileges, fast “Find File”, Alias, etc. All server disk space including NFS volumes, etc. can be re-shared. Mac files are stored in a way that Mac, Windows, and UNIX can fully share documents. Extremely fast: using 1 Gigabit Ethernet yields over 80 MByte/sec to Mac clients; more than 1000 MByte/sec sustained total server throughput.

Server Features

- AFP 3.3 compatible for macOS clients including long file name support, large file support, server reconnect and sleep-wakeup support, and full UNIX permissions
- TCP/IP print spooler
- TCP/IP printer drivers for macOS with Bonjour printer discovery
- User authentication for local host users, LDAP, NIS, and AD/PDC users via included authentication server
- Desktop database for super fast “Find File” and Mac file ID support
- Smart permissions to automatically inherit permissions from parent folder
- Windows NTFS file stream support handles streams for copy/move, etc.
- UTF-8 Unicode volumes allow the same file names for UNIX, Windows, Mac, web and mobile clients
- Quota support
- Additional network tools help analyze and troubleshoot the network: HELIOS LanTest, etc.

- “HELIOS Meta” Finder extension for macOS clients supports file comments in HELIOS volumes. These comments are also available to Windows and web clients

Advanced Printing System

HELIOS Base provides the HELIOS printing system to all other HELIOS products. EtherShare offers powerful printing services with flexible, remote queue management. Support of PPD files per spool queue allows exploiting special printer features. EtherShare accepts text, PostScript, and raw print jobs. For more details see HELIOS Base.

Optional Printing Features

Create PDF Server automatically creates PDF files from each print job. PrintPreview produces a PDF bitmap proof of every print job. PDF separation printing & OPI image replacement.

Flexible Licensing Scheme

The server license is tied to a specific machine and a certain number of users. 10 or 30 user server base licenses are available. User expansions are available in steps of addl. 10, 50 or 100 users. Optional maintenance agreements: Software Upgrade Service, cold spare licenses.

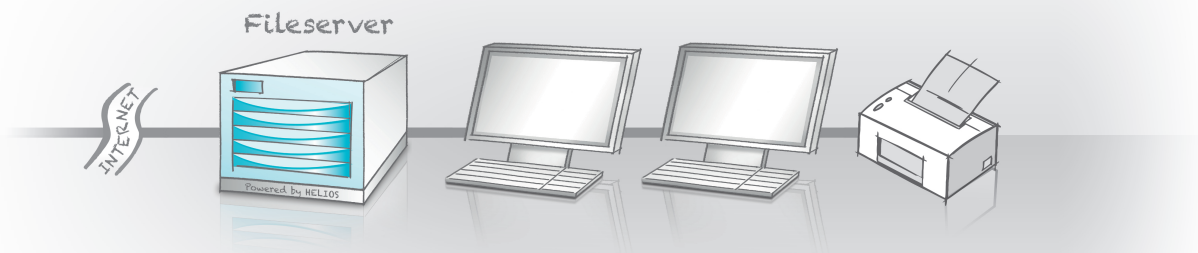
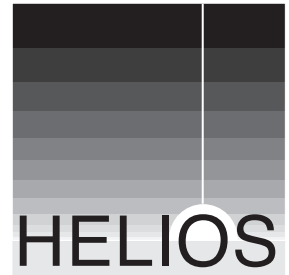
More details on the HELIOS website: www.helios.de/web/EN/products/start.html

Your HELIOS partner:

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PCShare G8

Highest-Performance Server for Windows Clients



HELIOS PCShare G8 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 clients. It is well known for its reliability, performance, and ease-of-use.

Windows SMB/CIFS support ensures full compatibility with standard Windows programs, including multi-user 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 NTFS Unicode and file streams support ensures compatibility with modern Windows applications. Mac meta data is accessible via SFM compatible streams. UNIX permissions and quotas are fully supported.

Windows Explorer Extensions allow managing UNIX file and folder permissions from the client. The HELIOS Meta extension enables adding, editing and viewing comments and color labels of files on HELIOS volumes or local disks. This data also is visible to Mac and

WebShare clients. Fast Spotlight compatible searches find file names, text content and metadata in PCShare volumes within seconds, via the HELIOS Index Server.

HELIOS Admin supports easy setup of users, groups, volumes, printers and server settings from Windows, Mac, or UNIX/Linux clients.

Authentication via LDAP, AD/PDC, NIS and local server users is fully supported by the HELIOS authentication server included in HELIOS Base.

PCShare Scales well from small sites with only a few Windows clients to enterprise sites. Optional EtherShare and WebShare yield a true cross-platform solution. PCShare is tightly integrated with PDF HandShake, ImageServer and PrintPreview to serve the widest range of prepress needs. 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
- Remote server administration from Windows, Mac, and UNIX

Server Features

- Windows compatible file and print server (SMB/CIFS)
- Windows file streams support
- Printing to local PC printer
- Printing to HELIOS "lpr" queues
- Shared volume compatibility with EtherShare and WebShare

Client Support

- Windows 7-10 (and legacy versions)
- Spotlight search via Explorer or tool
- Set UNIX permissions via Explorer

HELIOS Base Features

- Advanced printing system
- Authentication server
- Unicode/UTF-8 file representation
- CLI "dt" utilities (mv, rm, cp, ls, ...)
- Index Server for Spotlight indexing

Flexibility

- All major server platforms

Smart Ideas for Better Networking.

System Requirements

PCShare Server

- One of the following server systems:
Linux, Solaris, macOS
Details: www.helios.de/platforms
- 16 MB RAM; 4 MB per active client
- At least one network adapter

Product Highlights

Server Installation

- Fast, menu-driven installation, easy installation for system administrators

Client Installation on Windows

- No installation necessary because PCShare is compatible with the Windows built-in networking software
- Installer for HELIOS extensions to Windows Explorer for Spotlight file searches, and setting file permissions, color labels, and comments via the file properties dialog

Server Administration

- Remote server administration from Windows, Mac, and UNIX via HELIOS Admin
- Manages users, groups, volumes and printers, server settings and logs
- System & printer administrator groups
- Share volumes and printers
- Define DHCP server configuration
- Server auditing/monitoring support
- Additional WINS server or client configuration, workgroup/domain name and server name configuration
- TCP/IP access lists management

Security Options

PCShare supports TCP/IP access lists to deny or allow networks and/or nodes to access the server. Custom TCP/IP access lists per volume. Secure NTLMv2 authentication is supported.

A product from:

HELIOS Software GmbH
Steinriede 3
30827 Garbsen
Hannover, Germany
Internet: www.helios.de

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Windows Clients

- Windows 7-10 (and legacy versions)
- Optional HELIOS EtherShare integrates Mac clients. WebShare allows web-based server access

File Services

PCShare offers extremely fast file services. Due to its great performance PCShare allows hundreds of PCs to work on a server. All server disk space, including NFS volumes can be used for re-sharing. Server directories appear as Windows drives.

Spotlight Search uses the HELIOS Index Server to search for file names, text content, and metadata in seconds, even in very large volumes.

- Windows Explorer context menu
- "Find file" tool on server and client

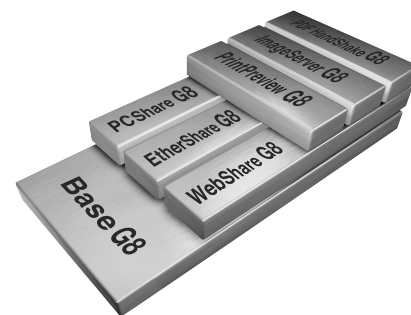
Server Features

- SMB/CIFS server offers Windows compatible file and printer sharing
- User authentication for local host users, LDAP, NIS, and Windows AD/PDC users via included authentication server in HELIOS Base
- Full file and record locking support
- Advanced file caching support using "oplocks"
- Windows NTFS file stream support
- Windows file/directory attributes: Creation date, Hidden, System, Read-only and Archive are supported
- UNIX permissions support
- Quota support
- Unicode volumes store all file names in 16-bit Unicode/UTF8 format. This allows the same file names to be used from UNIX, Windows, Mac and Web clients, including special characters.

More details on the HELIOS website: www.helios.de/web/EN/products/start.html

Your HELIOS partner:

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- Automatic name services routing between multiple network ports
- WINS client, server and WINS proxy

Print Services

PCShare allows printing to Windows local printers and to server connected printers, as well as to all EtherShare queues. PostScript and "raw" printing is supported.

DHCP Support

PCShare clients can automatically receive DNS, router, WINS and client TCP/IP addresses from the HELIOS DHCP server included in HELIOS Base.

HELIOS Base Benefits

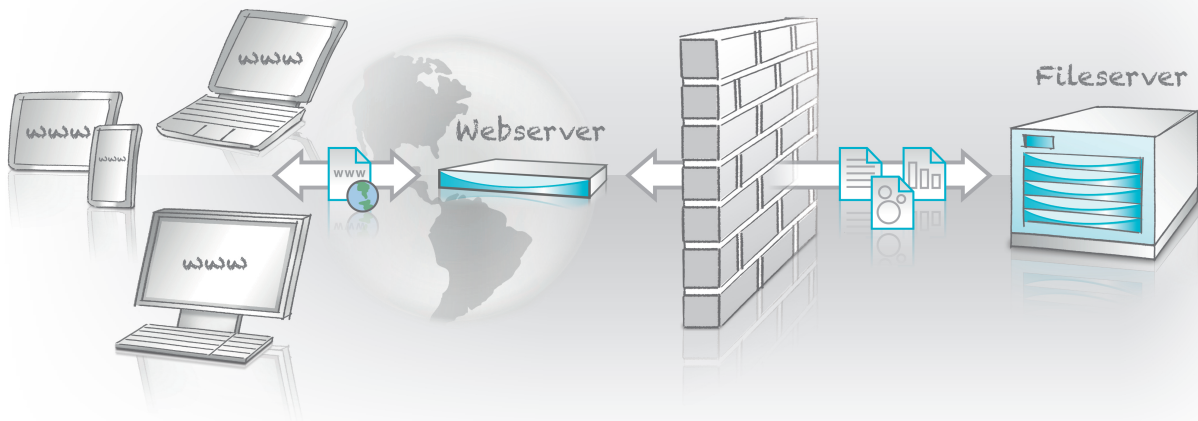
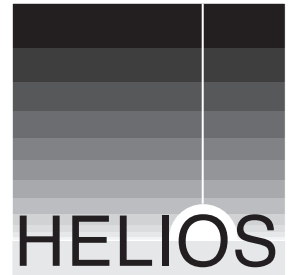
The PCShare file server uses HELIOS Base, which provides these core HELIOS technologies: Server fail safety, Unicode support, networking, and more.

Flexible Licensing Scheme

The server license is tied to a specific machine and a certain number of concurrent users. There is a 10 or 30 user server base license available. User expansions are available in steps of additional 10, 50 or 100 users. Optional maintenance agreements: Software Upgrade Service, cold spare licenses.

WebShare G8

Web Portal for Secure Access to Company File Server



HELIOS WebShare G8 enables fast and secure real time remote 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 CDs, or FTP, which often cause compatibility problems and waste resources. Automatic e-mail notification allows monitoring when files are being accessed. The easy to use web interface means no user training is required.

High Security is provided by a two-tier server application. The WebShare web 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 is enforced according to the user credentials. Sharepoint based security allows further restrictions per user, e.g.: browse, preview, download, upload and file management.

Smart Ideas for Better Networking.

Remote Collaboration becomes a reality with the fully automated secure multi-user 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 Mac Finder. Spotlight compatible searches for file names and content speed file access. Versatile views show scalable previews of images, PDFs, and Office documents. The PrintPreview option enables image and PDF proofing and annotations of images and PDF, Office, and optionally InDesign documents.

WebShare Manager syncs files between the WebShare sharepoint and Mac and Windows clients, includes drag & drop file transfer support.

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

Features & Benefits

Ease of Use

- Easy to install, administer, use
- All major web clients supported

Server Features

- Two-tier server application
- Sharepoints with custom permissions
- Spotlight search support
- RSA crypted login & HTTPS support
- Brandings, personalized GUI per user
- Custom "Action Scripts" & forms

Remote File Access

- Browse files and directories
- Download and upload files/folders
- On-the-fly Mac/Win Zip compression
- File management: permissions, copy, rename, delete files and folders
- Slideshow for presentations
- Image Editor for office and web use*

Remote File Preview

- All major image formats and PDF
- Office documents (via Tool Server)
- Adobe InDesign Mac/Win previews*
- ICC color proofing (via PrintPreview)

(* via ImageServer)

Flexibility

- All major server platforms

System Requirements

WebShare File Server

- One of the following server systems:
Linux, Solaris, Windows, macOS
Details: www.helios.de/platforms
- 32 MB RAM; 10 MB per active client
- Licensed per WebShare File Server
- Optional: Microsoft Office

Product Highlights

Server Installation

- Fast, menu-driven installation, easy installation for system administrators
- Web-based administration

Client Installation

- Uses standard HTML web browsers

WebShare File Server

- Native program running on file server
- Supports Windows NTFS and UNIX Unicode/UTF-8 file systems
- File system security is enforced according to the user permissions, due to separate processes running with user credentials
- User authentication for local host users, LDAP, NIS, and Windows AD/PDC users via included authentication server in HELIOS Base
- Virtual users/names are supported
- E-mail notification on activity
- TCP/IP security options, access lists
- Custom scripts with HTML forms
- E-Mail memo support included
- Priority/privileged user file transfer
- HELIOS Index Server search system
- Detailed accounting audit trail
- Shared file comments (Web/Mac/PC)

WebShare Web Server

- Java program running on server with Internet connection
- Customizable user interface via built-in GUI-based branding editor
- Multiple language support

WebShare Web Server

- Any HELIOS supported server system
- WebShare Web Server will handle multiple WebShare File Servers

Web Clients

- Windows, Mac, UNIX, mobile clients (all major web browsers)

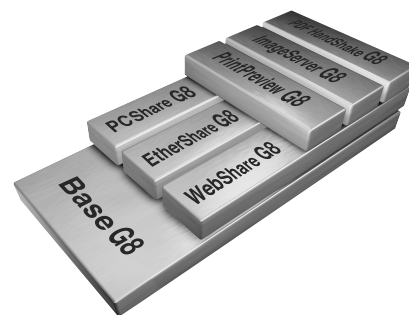
- WebShare web server uses one dedicated TCP/IP port for all web clients. (Optional firewall possible)
- No external CGI-programs used
- No data files are stored or cached on WebShare web server
- URL-based login parameters
- SSL content encryption is supported
- RSA 1024-bit encrypted passwords
- Security white paper: www.helios.de/WS/security.html

WebShare File Server Tools

- "zipstream" generates on-the-fly Zip files compatible with Mac and Windows file formats
- WebShare Perl scripts
Allow customization and auditing of web user actions, e.g.: login, download, upload, rename, duplicate, delete and copy files and folders
- Icon Collector tools for Mac/Windows

WebShare Sharepoints

- Specify shared directories
- Users and groups are assigned to sharepoints
- Specify available options: browse, preview, download, upload, and file management (delete, copy, rename, move, create folders, etc.)
- Performance white paper: www.helios.de/WS/speed.html



Remote Zoomable Previews

- Individual and gallery views
- Image previews of TIFF, EPS, JPEG, JPEG2000, PSD, PNG, JBIG2, ...
- PDF document previews
- Office document previews (Word/Excel/Powerpoint), via Tool Server. Requires Microsoft Office on Windows or Mac
- URL based image access and API
- Optional with ImageServer G8: Previews of Adobe InDesign documents for Windows and Mac. Access to the original documents, applications, images, fonts, etc. is not needed
- Optional with PrintPreview G8: ICC color proofs of images and PDFs, hierarchical annotations, color info

HELIOS Base benefits

The WebShare File Server and the WebShare Web Server use HELIOS Base, which provides these core HELIOS technologies: Server fail safety, Unicode support, networking, and more.

Flexible Licensing Scheme

The WebShare File Server license is tied to a file server machine and a certain number of users. There is a 10 or 30 user server base license available. User expansions are available in steps of addl. 10, 50 or unlimited users. Optional maintenance agreements: Software Upgrade Service, cold spare licenses.

A product from:

HELIOS Software GmbH
Steinriede 3
30827 Garbsen
Hannover, Germany
Internet: www.helios.de

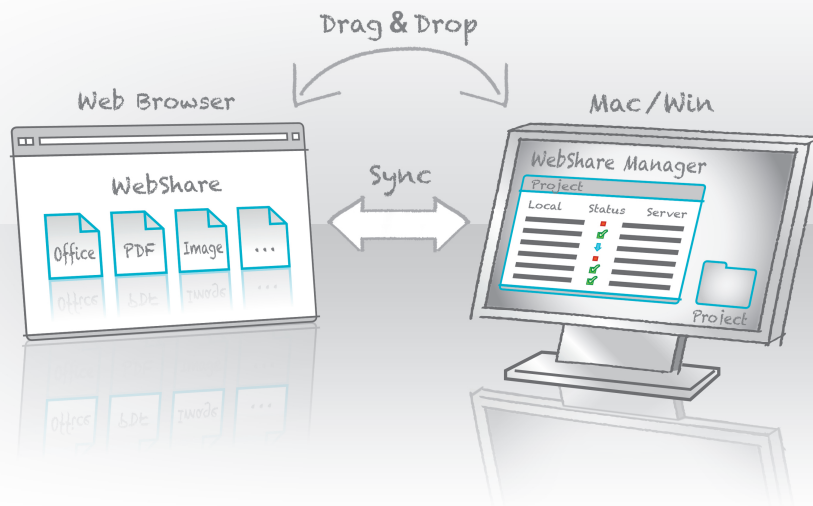
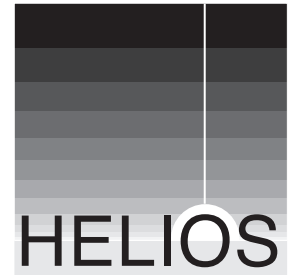
More details on the HELIOS website: www.helios.de/web/EN/products/start.html

Your HELIOS partner:

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WebShare Manager G8

Drag and Drop Synchronization for Files and Folders



WebShare Manager G8 allows file and folder synchronization between a WebShare server and remote workstations. Using a web browser, remote users can view server content in WebShare, and drag and drop files and folders between a WebShare sharepoint and the desktop for local use. Changes will be synchronized automatically.

Project Oriented Each WebShare Manager project is a bundle that references files anywhere on a WebShare server. This makes it easy to work with a group of files related to a project, even though those files might be scattered in many folders on the WebShare server.

Drag & Drop allows remote users to transfer files straight from WebShare into a WebShare Manager project folder on their local workstation. Likewise, users can drag local files into the project folder, and they will be uploaded to the WebShare server.

One-Way or Two-Way File Sync Each WebShare Manager project has a Synchronize Plan, to define how and when changes to the local and remote files get synchronized.

Optimized Transfers ensure that multiple files get transferred in parallel for better bandwidth utilization. In case a transfer gets interrupted, it will automatically resume when the network is up again. Large file transfers over 4 GB are supported.

No Cloud Copy of data because WebShare works directly with the company file server via its two-tier server solution. Enterprise users, groups and permissions are fully supported.

WebShare Manager is included as a core feature of HELIOS WebShare. See the WebShare data sheet for additional details and system requirements.

Features & Benefits

Ease of Use

- Native app for Mac and Windows
- Drag & drop file transfers
- Versatile file sync options

Client Features

- Sync files and folders
- Auto-resume of transfers
- Projects for grouping related files
- Color labels and file comment support allows updating their status

Server Features

- Enterprise grade security
- Secure user authentication
- Multi-user support
- Server file permissions support
- Versioning for uploaded files
- No cloud copy of data

Client Support

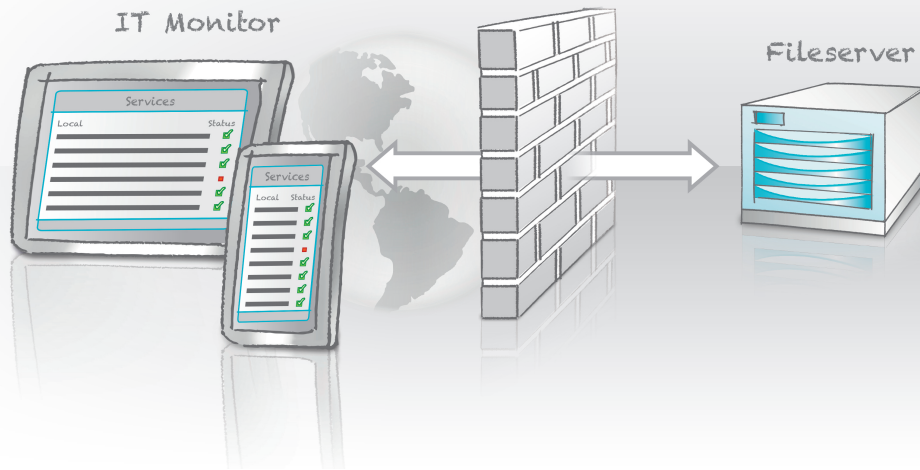
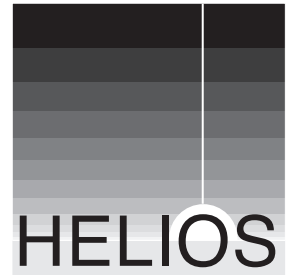
- Mac, Windows, UNIX

System Requirements

- WebShare File Server

IT Monitor Server G8

Server Monitoring and Notifications via iPhone



HELIOS IT Monitor Server G8 allows IT infrastructure monitoring with push notification to admins upon server overload or service failure. Preventing IT failures saves time and money – a must for every mission-critical environment.

Pro-active Notification. Constant monitoring of servers and services allows detecting impending problems early. It does not matter if it is an overload problem, a failing service or a critical system message – admins are immediately notified by iPhone push notification and e-mail. The pro-active notification allows fixing problems in advance before serious trouble develops.

Monitoring Server Workload allows inspecting utilization in a graphical chart on the iPhone, similar to stock chart graphs, with views for now, today, this week, etc. Important aspects like CPU, network, and memory utilization can be viewed to identify bottlenecks or just to confirm that everything is fine.

Monitoring Services cover all major protocols on the server including remote services. For example, is the printer running, is the database up? Basically the entire IT infrastructure can be monitored to report failing services immediately to admins. All server system messages, or alarm messages only, can be browsed and searched on the iPhone.

The iPhone offers more ease of use than any other mobile platform, and is used by the IT Monitor app to receive notifications from one or more servers. The iPhone is used to observe the status of services, browse messages, use graphical performance charts, and to manage settings. iPad and iPod touch are also supported as clients.

All major server operating systems are supported.

Features & Benefits

Ease of Use

- Easy to install, administer, use

iPhone App Features

- Push notification on alarms
- Server load utilization charts
- Service availability overview
- System messages browsing
- Server Actions (via HTML CGI scripts)
- Multiple iPhone admins per server

Server Features

- Automatic notification upon service failure or server overload via e-mail and iPhone push notification
- Constant monitoring of CPU, net, memory, paging, and disk utilization
- Server service monitoring of AFP, SMB, LPR, FTP, PING, SMTP, IMAP, HTTP, POP3, LDAP, DNS, MS SQL, MySQL for local and remote services. Custom services can be added
- System log message monitoring and filtering for "ALARM" conditions
- iPhone intranet/internet proxy

Flexibility

- License is tied to a specific machine
- All major server platforms
- Included in Universal File Server G8

System Requirements

Monitor Server

- One of the following server systems:
Linux, Solaris, Windows, macOS
Details: www.helios.de/platforms
- 16 MB RAM; 4 MB per active client
- At least one network adapter

Product Highlights

IT Monitor Server Installation

- Fast, menu-driven installation, easy installation for system administrators

Client Installation on iPhone

- IT Monitor app in the Apple Store
- Server user name and password are required for setup

Server Administration

- Remote Monitor Server administration from iPhone
- "Monitor administrator" groups

Security Options

- iPhone authentication is RSA crypted
- TCP/IP access lists
- Monitor Server proxy
Allows Internet iPhone users to access the Intranet server

Anytime/Anywhere

24/7 server monitoring via iPhone/iPad WiFi or 3G connections. View performance charts, service availability status, alarm messages, and system messages.

Alarm Alerts

Push notifications immediately alert iPhone admins on alarms, e.g. upon service failure, server overload or alarm messages. Additional alert notification can be sent to other users by e-mail.

A product from:

HELIOS Software GmbH
Steinriede 3
30827 Garbsen
Hannover, Germany
Internet: www.helios.de

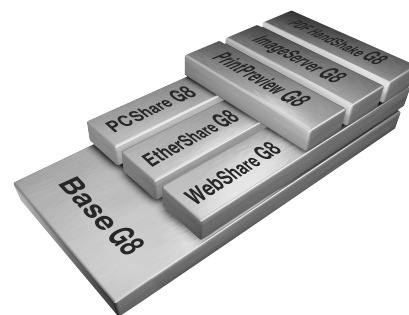
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7/2020

iOS Client

- iPhone (iOS 10.3 or higher)
- Internet connection for notifications required

E-Mail

- Any e-mail client



Monitor Workload/Performance

Charts show current and peak server network throughput, CPU utilization, memory paging, jobs, and users. A server monitoring history is maintained, to view as timeline charts for Now, Day, Week, Month, Quarter, and Year.

Monitor Availability of Services

IT Monitor Server reports the status of services running on the server and within the network. Each service is represented by a name, a verification interval and optionally by a remote host name and access credentials. A quick glance at the iPhone shows the status of each service.

Managing System Messages

All system messages can be browsed, with filtering and sorting options to show just those items of interest. Messages can be marked (Delete/Accept/Resolved) with user/timestamp to hide processed messages for other iPhone admins.

Custom Server Actions

IT Monitor Server supports adding custom functionality via CGI Web pages which will be processed on the server and displayed on the iPhone client. The CGI API is Apache compatible for easy development in any language. Included sample Perl-based CGI scripts:

- Active users listing (users, uptime)
- Server process listing (similar to „top“)

HELIOS Base Benefits

IT Monitor Server uses HELIOS Base, which provides these core HELIOS technologies: Server fail safety, Unicode support, networking, and more.

API/Scripts for Customization

Custom service monitoring protocols can be added by developing a script. This script will be called periodically to check the service availability. Many sample scripts are included. Custom filter scripts for system messages allows ignoring messages or turning messages into server alarms.

Flexible Licensing Scheme

The server license is tied to a specific machine. IT Monitor Server G8 is included in the HELIOS Universal File Server G8 license.

Optional maintenance agreements are available: Software Upgrade Service Agreement and cold spare licenses.

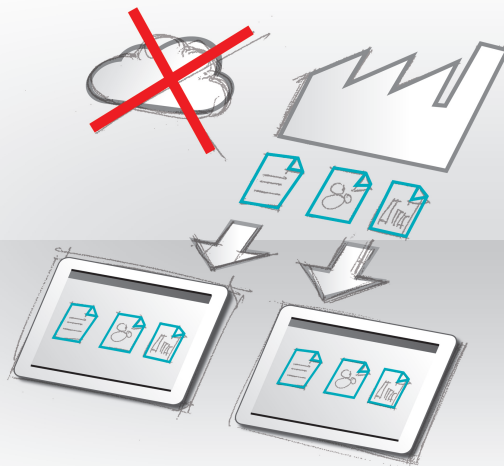
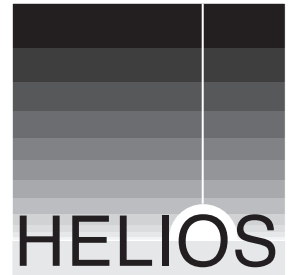
More details on the HELIOS website: www.helios.de/web/EN/products/start.html

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Document Hub

Multi-User Secure Access to Intranet Server Volumes



HELIOS Document Hub is the best solution for businesses to securely and safely bring mobile devices into corporate networks of any scale. Document Hub allows authorized users to access, present and use intranet server documents for online and offline use. Built-in file synchronization ensures that server files are automatically updated on mobile devices. Enterprise file server security is enforced.

HELIOS WebShare is the underlying server infrastructure to make defined file server data securely available to Document Hub users. Intranet users use native file server volumes to access the data, remote WebShare users can use a web browser for access, and Document Hub users have native app access.

Easy Remote File Access by mobile users requires only login authorization to access published server sharepoints. Access can be defined depending upon user name, group, and the server file system permissions. All app settings and defaults are specified on the server for all mobile users.

Hub for Documents interacts with all apps, allowing it to open documents in other apps or to receive documents. Document Hub also presents document pages and images, prints, or forwards by e-mail.

File Synchronization allows automatic update of files and folders for all app users for later offline use. All file transfers are highly optimized (parallel, compressed, streamed, resumable).

High Security is provided by a two-tier server application. The WebShare Web Server handles the Internet communication on a separate server to ensure that the main file server is not exposed to the Internet. The server file system security is enforced according to the user credentials. Offline Document Hub file access requires a password which is verified against the server password. Detailed audit trail logs all user access.

Features & Benefits

App Features

- Work offline with server documents
- Browse, preview, transfer files from/ to intranet server volumes
- Present documents, images, movies
- Spotlight search of server content
- Open documents in other apps
- Receive documents from other apps
- Print documents
- Forward documents via e-mail apps
- Server generated document previews

File Synchronization

- Server specified files & folders
- Compressed & resumable transfers

Security

- RSA 1024-bit encrypted login, HTTPS
- Authentication and file permissions enforced by server OS
- Password enforced for offline use
- No cloud, no VPN, no direct access

Flexibility

- All major server platforms
- iOS and Android (pads, phones)
- App source code is available

Smart Ideas for Better Networking.

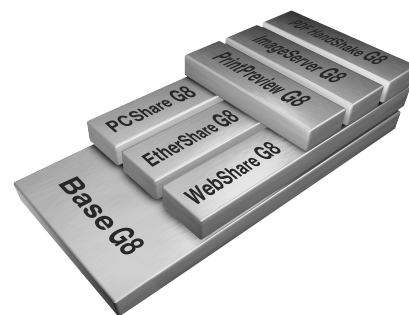
System Requirements

WebShare File Server

- One of the following server systems:
Linux, Solaris, Windows, macOS
Details: www.helios.de/platforms
- 32 MB RAM; 10 MB per mobile device
- Licensed per WebShare File Server

Document Hub

- iOS 10.3 or higher (iPad, iPhone)
Android 4.1 or higher
- 1 MB app disk space
- Offline data disk space
(per user needs)



Product Highlights

Server Installation

- Fast, menu-driven installation, easy for system administrators
- Easy administration

Client Installation

- Download from the app store
- Quick setup: user, password, server

Access Permission

All file server OS authentication and file-system access permission is enforced for remote users. Additional access customization allows:

- Specify users/groups per Sharepoint
- Allow or deny preview, upload, download access
- Send e-mail notification on access
- Restrict access by app device IDs
- Login scripts for further restrictions (e.g.: remote IP address, device IDs, user name, device location, login-hours)

Intelligent HTTP XML Protocol

All communication between the app and the server is done via HTTP XML requests. The protocol is optimized for secure and fast remote access:

- RSA 1024-bit encrypted login
- Compressed file transfers
- Resumable uploads/downloads upon network availability
- Server based preview generation (low-res for quick previews/icons)
- Quick directory browsing
- Streaming download/upload

A product from:

HELIOS Software GmbH
Steinriede 3
30827 Garbsen
Hannover, Germany
Internet: www.helios.de

App Source Code – Document Hub

Customers, integrators, enterprise businesses and media companies can build their own customized app solutions for different needs. The full HELIOS Document Hub app source code is available to WebShare customers. It allows customization and development of their entirely own apps by utilizing the intelligent and secure remote content access foundation of their WebShare servers. Benefits include:

- Full app source code access (100%)
- Time-to-market savings
- Major app development savings
- No charge per view, content, issue
- No charge per app
- No dependency on vendor hosting, content is hosted on customer's WebShare server (no HELIOS hosting)
- Powerful, reliable, and intelligent app
- Utilizes HELIOS WebShare server: PDF rendering, image processing, color management, authentication, Zip streaming, hot-folder automation option, etc.
- Intelligent local app caching of accessed files/folders/documents/previews

HELIOS Document Hub app source is confidential, requires NDA agreement.

Gallery and preview views

Documents and images can be browsed via a list, gallery, or preview view. Individual images and PDF documents can be previewed at 50%, 100%, 200%, etc. zoom. The preview and gallery modes are highly optimized to utilize server color rendering, and transfer only the required data for the mobile device current view.

HELIOS WebShare & Base Benefits

The server utilizes HELIOS WebShare and HELIOS Base. Learn about them at: www.helios.de/products

The WebShare File Server and the WebShare Web Server use HELIOS Base, which provides these core HELIOS technologies: Server fail safety, Unicode support, networking, and more.

Flexible Licensing Scheme

The WebShare File Server license is tied to a file server machine and a certain number of users. There is a 10 or 30 user server base license available. Expansions are available in increments of additional 10 or 50 users. Starting with 60 users the license is unlimited. Optional maintenance agreements: Software Upgrade Service, cold spare licenses.

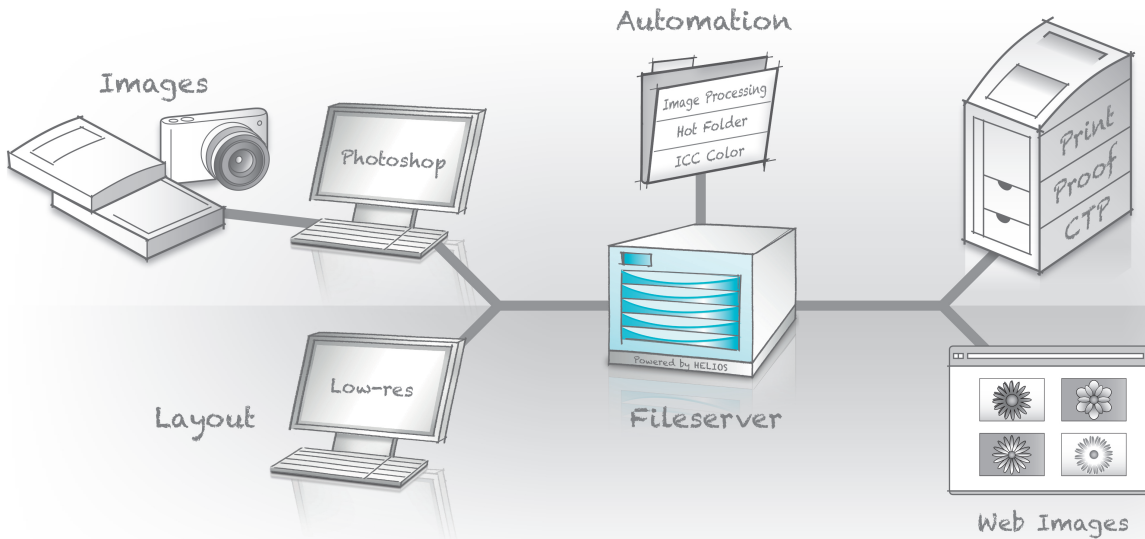
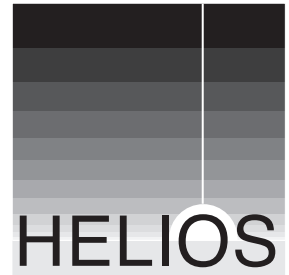
More details on the HELIOS website: www.helios.de/web/EN/products/start.html

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ImageServer G8

Server-based Image Processing and ICC Color Transformation



HELIOS ImageServer G8 is a server-based image conversion and color transformation solution with integrated process and workflow automation. All major image formats and color spaces as well as XMP, EXIF, clipping path and ICC meta data are supported. Tasks can be automated via “hot folders”, CLI tools, and OPI image repurposing. It is designed to shift very CPU-intensive image processing tasks from desktops to servers.

Image Conversion between any supported file format, resolution, compression and color space. ICC profiles can be tagged and/or applied. All image information can be retrieved. ICC/XMP/Path meta data can be imported and exported. Image resolution and sizes can be changed in existing files. Web preview generation with customizable x/y pixel resolution of images or InDesign documents are supported. Images with a clipping path can be converted to transparent PNGs.

Hot Folder Automation via “Script Server” and “Tool Server” integrates and automates server and client applications.

Smart Ideas for Better Networking.

Server-based Color Management

Using 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. Support throughout for 16-bits per channel. ImageServer also supports ICC v4 profiles, as well as DeviceLink profiles and Black Point Compensation (“BPC”).

OPI Support automatically creates a low-res image of all supported file formats for placement in layout applications. It replaces layout images on-the-fly with optimized high-res images during output. Remote users can be provided with layout images and return complete pages for final output. More benefits: www.helios.de/opibenefits

HELIOS PDF HandShake adds PDF file format support. WebShare allows web-based remote OPI, image and document previews.

Features & Benefits

Ease of Use

- Remote server administration from Mac, Windows and UNIX

Image Features

- Extensive image conversion options
- File formats: TIFF, PNG, JPEG, PSD, JPEG2000, EPS, DCS, RAW, DNG, PDF, InDesign via XPV ...
- Color spaces: Lab, RGB, CMYK, ...
- Reads/writes 16-bit/channel images
- Compressions: Zip, JPEG, G3/4, ...
- Meta data: XMP, Paths, EXIF, ICC

Color Management

- Server-based ICC 4 color separation, proof matching, and conversion

Automation

- Script Server hot folders
 - Tool Server app automation
- See the separate data sheets

OPI Image Repurposing

- On-the-fly OPI image replacement
- Automatic low-res file creation

Cross-Platform Client Support

- Mac, Windows, UNIX clients

System Requirements

HELIOS ImageServer

- 64 MB RAM in total, 8 MB per active image conversion/print device
- EtherShare G8 for Mac clients, or PCShare G8 for Windows clients, or WebShare G8 for web clients
- Workstation to place and print OPI layout images to the HELIOS spooler

Product Highlights

Complete Cross-Platform Solution

ImageServer supports server image processing workflows as well as Mac, Windows and Web remote workflows.

Integration with HELIOS Products

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

Script Server & Tool Server

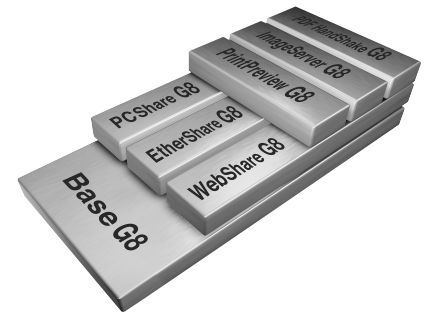
See the separate data sheets

Server Image Conversion Features

Powerful image conversion tools

- Over 100 professional image conversion options handle spot colors, alpha channels, clipping masks, ICC profiles, XMP, etc. Allows converting on-the-fly between any supported file format, color space, compression and resolution, including ICC transformations/tagging.
- Web browser optimized PNG images, true color with automatic clipping mask/alpha in any specified pixel/resolution
- Previews of InDesign documents (Mac/Win) via web or tools
- Image preview and conversion support for PSD/TIFF/PNG images with a transparent background
- PDF as image file format for archiving, OPI, image conversion

- OPI-compatible applications like InDesign, etc.
- Any non-OPI-compatible software that can place and print EPS files
- Optional WebShare for remote OPI and image/document previews, PDF HandShake to support PDFs, PrintPreview adds PS/EPS vector conversion support



Supported File Formats

- File formats: TIFF, EPSF, DCS1&2, PNG, JPEG, JPEG2000, Photoshop, BMP, JBIG2, PICT, Scitex-CT, RAW, DNG, PDF as image, PDF vector (PDF HandShake option)
- PS/EPS rendering via “psrip” tool
- DCS files are merged into composite
- Color Spaces: Line art, Grayscale, CIE Lab, XYZ, RGB, CMYK, Indexed, Multitone, and Spot
- Compressions: Zip, JPEG, Compress, JPEG2000, CCITT-G3/4, etc.
- Bit depth: up to 16-bits per channel
- Support for down- & upsampling, cropping, rotate, and flipping
- Clipping paths and alpha channels can be enabled or ignored
- Spotlight full text searches of InDesign documents via XPV

ICC Color Matching/Separation

ImageServer provides fast, accurate ICC color space transforms. 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. Tools to embed ICC are included. ICC version 4 compliant, with support for DeviceLink and Gray-scale ICC profiles, and BPC (Black Point Compensation).

OPI & Image Repurposing Features

- OPI standards 1.3 and 2.0
- Support of Omit EPSF & TIFF
- XMP and multiple paths supported
 - DeviceN composite output support for TIFF, PSD, DCS2 & colorized images
- ICC support for printing, proof, etc.
- Automatic low-res file generation
- Flexible low-res image options TIFF, EPSF, JPEG, or PNG low-res with any desired resolution and color
- PDF-native OPI option supports InDesign PDF export

As soon as image files are created or changed on the server by EtherShare, PCShare or WebShare clients, layout files are generated. OPI low-res file creation can be turned on for the entire volume (no “hot folder” required, no restrictions on OPI folders). Low-res files are stored in “layout” subdirectories.

PostScript/PDF Output Generation

On-the-fly PostScript Level 1, 2 and 3 generation with compression: Zip, Compress, JPEG, CCITT-G4, OPI image replacement during output (no temporary files), image ICC color management, downsampling, and cropping during composite or separated output. PDF generation via PDF HandShake option.

HELIOS OpenImage SDK

API allows adding new file formats, etc.

A product from:

HELIOS Software GmbH
Steinriede 3
30827 Garbsen
Hannover, Germany
Internet: www.helios.de

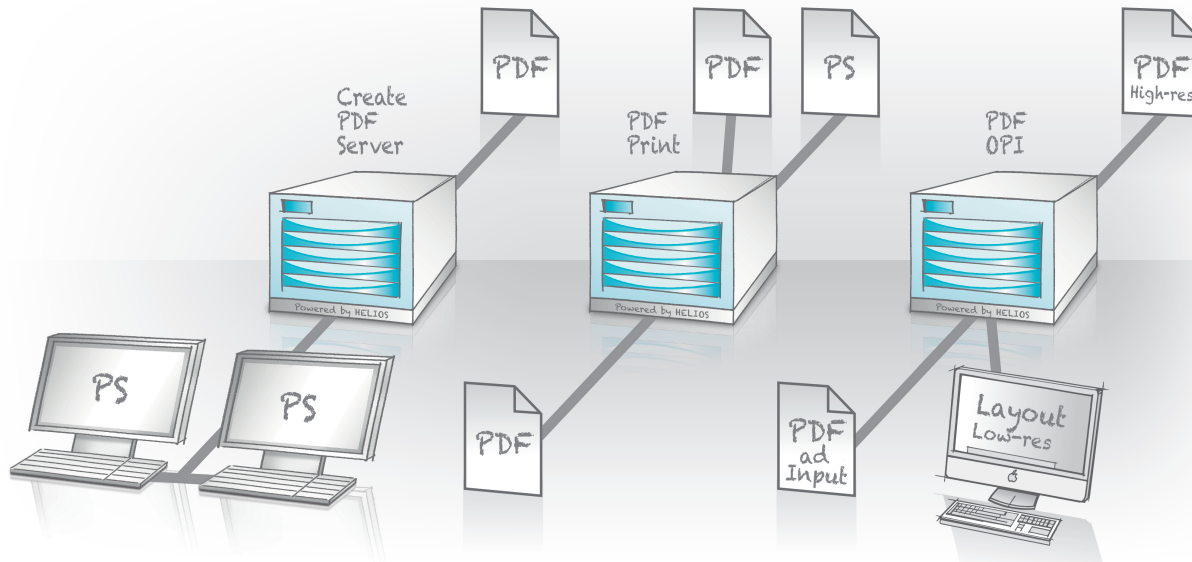
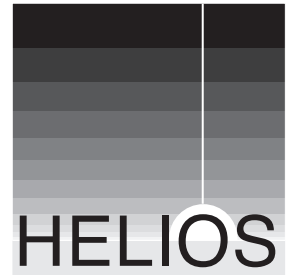
More details on the HELIOS website: www.helios.de/web/EN/products/start.html

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PDF HandShake G8

PDF Printing and Processing · PDF-native OPI



HELIOS PDF HandShake G8 fully utilizes the benefits of PDF in existing production environments. Automated server-based PDF generation, PDF printing, PDF OPI, and batch tools boost productivity, and overcome today's PDF problems.

Create PDF Server is a highly automated server-based PDF creation solution. Mac, 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 servers for the PDF creation, and scales from a few users to hundreds of users.

Smart ICC Color Management can color match every object within a PDF. Properly converts PDF to CMYK, with ability to detect and preserve raster and vector black, gray, white and pure CMY colors. Perfect to color-normalize PDFs. Source profiles, printer and proofer profiles and ICC rendering intents can be specified.

Smart Ideas for Better Networking.

PDF HandShake Printing offers correct separations and composite PDF printing on any PostScript output device. PDF HandShake capabilities include printing registration marks, custom page sizes, 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 is from MS-Office or InDesign – PDF HandShake printing will always print correctly.

ImageServer OPI users can place EPS 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 the 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.

Features & Benefits

Ease of Use

- Easy to install, administer, use
- Remote server administration from Mac, Windows and UNIX

Create PDF Server

- Uses Acrobat Distiller
- Queue based workflow and settings
- Support for Win/Mac/UNIX clients

PDF Processing

- PDF 1.7 compatible
- PDF preview generation
- ICC color management
- PDF transparency support
- Composite, in-RIP & host separations, and proof printing support
- Printing via "pdfprint" tool or server hot folder

PDF & OPI via ImageServer

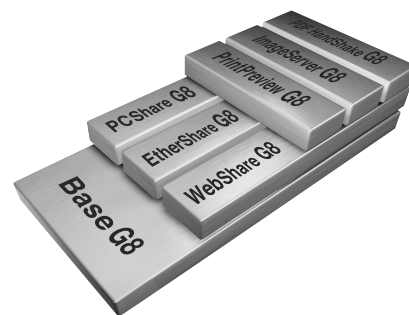
- PDF-native OPI with InDesign
- EPSF low-res files from any PDF
- PDF to high-res EPSF conversion

System Requirements

PDF HandShake on Server

- EtherShare G8 for Mac clients, or PCShare G8 for Windows clients, or WebShare G8 for web clients
- PDF HandShake printing from any client via “pdfprint” tool or via hot folders with optional ImageServer

- Create PDF Server requires Acrobat Distiller 4.05-9, X, or XI, for Mac/Win
- Optional ImageServer for OPI and imposition features, WebShare for remote OPI and image/document previews, PrintPreview for a bitmap proof of PDF print jobs



Product Highlights

Printing

- Hot folder printing from any client
- Print composite, host separated, and in-RIP separations including shadings and DeviceN
- PDF 1.0-1.7, PDF/X support
- ICC v4 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. Supports 16-bits per channel images, DeviceLink profiles and Black Point Compensation. Embedded ICC profiles can be used or ignored
- PDF tools included for batch processing and scripting: pdfprint, pdfcat, pdfinfo, pdfnote, pdftoeps, pdfform
- Hairline correction during printing
- Grayscale, black, white, and pure CMY 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 until the font is available, e.g. via the HELIOS font server
- Options: overprint black text, negative printing, ignore OPI references for PDF printing, preserve PDF halftones
- Registration marks and bleed support
- TrueType & CID Font support
- PDF layer support

PDF-native OPI & PDF Repurposing

Adobe InDesign users can place OPI low-res images and export low-res documents as PDF 1.4-1.7 into a hot folder. All OPI referenced images will be replaced with optimized and color matched originals into a high-res PDF file. Benefits are:

- Preserves PDF transparency, drop shadows and XMP meta data
- Server-based ICC color management
Apply and/or embed printer ICC profiles into PDF job, to transform images for different printing processes or include high-res image profiles
- Downsample replaced images
- Compress replaced images (G4, JPEG, JPEG 2000, Zip, etc.)
- Low-res PDF can be repurposed for multiple settings/productions
- Remote page composition
Users can be provided with layout images and return complete pages for final output. HELIOS WebShare options allow web-based workflows

PDF and PostScript OPI

- EPSF layout files are automatically created from PDF documents to be used for placement and printing
- Automatic PDF replacement of OPI image references in a PDF document

Create PDF Server

- Automatic PDF creation via print queues on the server
- Support for Windows and Mac printer queue, UNIX clients via “lpr”
- Customized job options and security settings per queue allow different PDF creation settings
- Acrobat Distiller is used with HELIOS Create PDF Server on one or more dedicated Mac or Windows workstations for PDF creation
- Scalable via load balancing queues
- Centralized Create PDF queue administration within HELIOS Admin.
There is no configuration required on different Create PDF Server machines

Tool Server

Integrates and automates client-based applications.

- PDF transparency flattening
- HTML to PDF conversion
See the separate data sheet

Flexible Licensing Scheme

The PDF HandShake license is tied to a specific machine. The total number of licensed HELIOS Universal File Server users per day is permitted to use PDF HandShake.

A product from:

HELIOS Software GmbH
Steinriede 3
30827 Garbsen
Hannover, Germany
Internet: www.helios.de

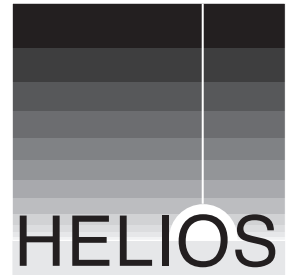
More details on the HELIOS website: www.helios.de/web/EN/products/start.html

Your HELIOS partner:

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PrintPreview G8

Certified Soft Proof & Annotations for PDF, Images and Office Documents via WebShare



HELIOS PrintPreview G8 is a versatile content and color proofing solution offering a certified soft proof, hard proof and annotation workflow for documents and images that is easy to use within a web browser, throughout the design, review, and production process.

FograCert certified Soft Proof confirms accurate proofs simulating the Fogra39 printing process on a proofing monitor. The certification of the entire solution includes monitor, software, measurement devices, ICC profiling and the viewing lightbox.

Proof Printing of Single Pages is supported directly from the Web browser on mainstream inkjet printers, no RIP needed. The print simulates the specified printing process. The local printer ICC profile must be assigned to receive matching proofs. Print control strips can be specified.

Annotation Workflow allows hierarchical discussions with different users (e.g. staff, partners, customers), reviewing PDFs, images and Office documents throughout the production process. Annotations across multiple document versions are supported.

Sophisticated Color Rendering is performed on the server and an ICC color-matched RGB page is presented as a soft proof or hard proof within the web browser. It provides accurate proofs, with features such as in-RIP separations, and support for transparencies, overprint, shadings, DeviceN and spot colors.

PrintPreview extends HELIOS WebShare with these proofing and annotation capabilities. In addition, PrintPreview can generate proofs of any print job, in your local network, acting as a virtual printer, and saving the rendered proof pages into a PDF.

Features & Benefits

Ease of Use

- Easy to install, administer, use
- Supports all major web browsers

Rendering Features

- PDF documents
- All major image formats TIFF, EPS, JPEG, PSD, JPEG2000, PNG,...
- Office document page previews
- InDesign page previews via Image-Server
- In-RIP separation support
- DeviceN and spot color support
- Overprint/knockout support
- Transparency support
- Previews of final separation plates

Proofing Workflow

- Annotations for documents and images, multi-user capable
- Annotation printing support
- Color inspector
- ICC profile management per user for printer and monitor proofing devices

Web Client Support

- Mac, Windows, iPad/iPhone

System Requirements

PrintPreview on Server

- WebShare G8 for web clients
- 128 MB RAM per active proof job
- PostScript proofing via printer queues requires EtherShare G8, PCShare G8, or Base G8 for Windows
- Office document previews require Microsoft Office

Product Highlights

Local & Remote Proofs

PrintPreview with HELIOS WebShare enables local and remote ICC color-matched proofing on monitor or printer, via any web browser.

Image and PDF Proofing

All major image formats and PDF documents are easily viewed and proofed in WebShare. ICC profiles can be uploaded and selected for the specific monitor or printer, and the desired printing process. Color matching is performed by the PrintPreview server.

Monitor Proofs

Use any monitor throughout the design and review process for content proofing. Use a calibrated proofing monitor for highly accurate color proofing of composite or individual separation plates and/or spot colors.

Color Inspector

The color info panel shows final print process separation and spot color values for specified points of the soft proof.

Fogra Certified Soft Proofs

The HELIOS soft proofing system, together with designated monitors, and light booth, received FograCert soft proof certifications for fulfilling all of the FograCert softproofing system criteria. To replicate this setup, refer to the HELIOS web site for details.

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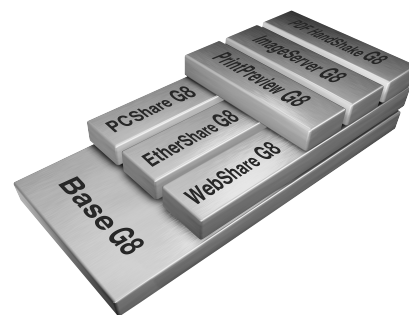
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7/2020

Supported Jobs

- PDFs, images, Office documents
- PostScript proofs via printer queues

Workstation & Devices

- Soft proofs with calibrated monitor
- Hard proofs with calibrated printer
- Any major web browser: Mac, Windows, iPad/iPhone



Print Proofs

PrintPreview generates proofs for printing via WebShare. Since PrintPreview does all the complex content rendering and ICC color matching, it can print matching remote proofs to mainstream inkjet or laser printers without the need for a local RIP solution.

Annotations and Collaboration

Annotations can be added to images, PDFs, and Office documents, and with HELIOS ImageServer, InDesign XPV documents as well. Selecting a point or area allows adding notes. Reviewer comments are formatted as threads with timestamps and IDs. Annotations are maintained across document versions, and can also be printed.

Tool Server for Office Previews

WebShare previews of Microsoft Office Word, Excel, and PowerPoint documents can be enabled via the included HELIOS Tool Server OfficeReader feature. Tool Server requires Microsoft Office on Windows or Mac.

Accurate Rendering

PrintPreview offers highest rendering quality and compatibility, supporting transparency, in-RIP separation, overprint/knockouts, DeviceN, spot colors, PDF ICC color spaces, ICC-4 profiles, DeviceLink profiles, and high-precision rendering and antialiasing for text.

PostScript Proofs via Print Queues

PrintPreview also generates proofs of PostScript jobs printed via HELIOS EtherShare or PCShare print queues, "lpr" tools, or ImageServer hot folders. Standard separated jobs, jobs with any number of spot color plates, composite and in-RIP separation jobs are supported. A PrintPreview queue is in essence a virtual printer, which saves a bitmap proof into a PDF file. It utilizes the final printer PPD and ICC profiles to accurately preview the final output. The preview file represents the final output in all relevant aspects: completeness of page, correctness of page elements including OPI resolving, proper typography and fonts, color fidelity, and page geometry according to the final RIP's PPD.

Flexible Licensing Scheme

The PrintPreview license is tied to a specific machine. The total number of licensed HELIOS Universal File Server users per day is permitted to use PrintPreview.

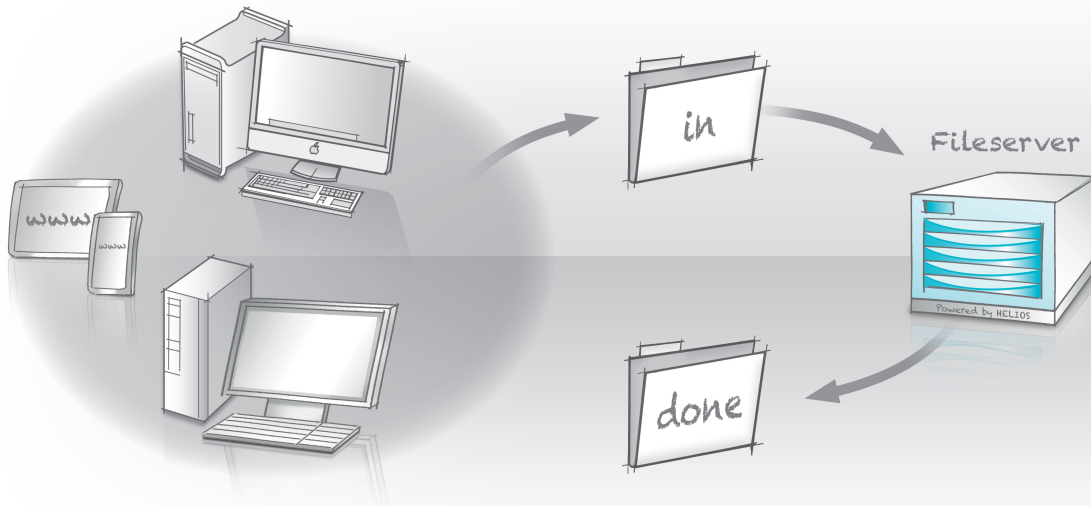
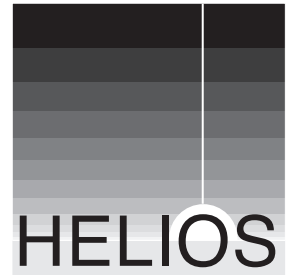
More details on the HELIOS website: www.helios.de/web/EN/products/start.html

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Script Server G8

Server-based Hot Folder Automation



Hot Folder Automation provided by Script Server integrates and automates server applications. Any sort of scriptable task or procedure can be initiated simply by saving files to a server hot folder. Even an entire server volume can be designated as a hot folder. This works completely automatically behind the scenes.

Script Server is easily set up via HELIOS Admin. Users or administrators can configure hot folders, edit scripts, and monitor job status and logs. HELIOS ScriptAssistant, an interactive utility for Mac or Windows, simplifies the creation of custom Script Server scripts.

The Infrastructure is provided by Script Server, managing event notification, file type recognition, queuing, logging, etc. The system administrator only needs to script the actual task itself. Script Server does the rest. A single script can be used for different hot folders, with customized variables for each. These variables (e.g. a printer name, or ICC profile, or image resolution) can easily be defined by users in HELIOS Admin.

Smart Ideas for Better Networking.

Web-based Workflows can be enabled by sharing Script Server hot folders via HELIOS WebShare. Remote proofing, PDF preflight, image conversion, and more can be accessible anywhere.

Reliability and Security are enforced. Each script runs as a separate process, with the security credentials of a specific user. Handling of time-outs and errors ensures that the system continues even in the case of a problem.

Sample Scripts are included for common processes such as image conversion, ICC color space transforms, PDF processing, etc. These scripts can also be used as templates for custom scripts. Additional details at: www.helios.de/web/EN/products/SS_scripts.html

Script Server is included as a core feature of HELIOS ImageServer. See the ImageServer data sheet for additional details and system requirements.

Features & Benefits

Ease of Use

- Easy to install, administer, use
- Remote server administration from Mac, Windows, and UNIX

Automation Framework

- True server solution – implemented as a background server service
- “Run as user” support for scripts
- Event driven – much faster and more efficient than polling
- Individual folders or entire HELIOS volumes can act as hot folders
- File type & suffix can trigger scripts
- Queuing, logging built-in
- Remote automation via Tool Server

User Interface

- GUI setup of hot folders and scripts
- ScriptAssistant script creation tool
- Monitor job status in job window

Compatible Scripts

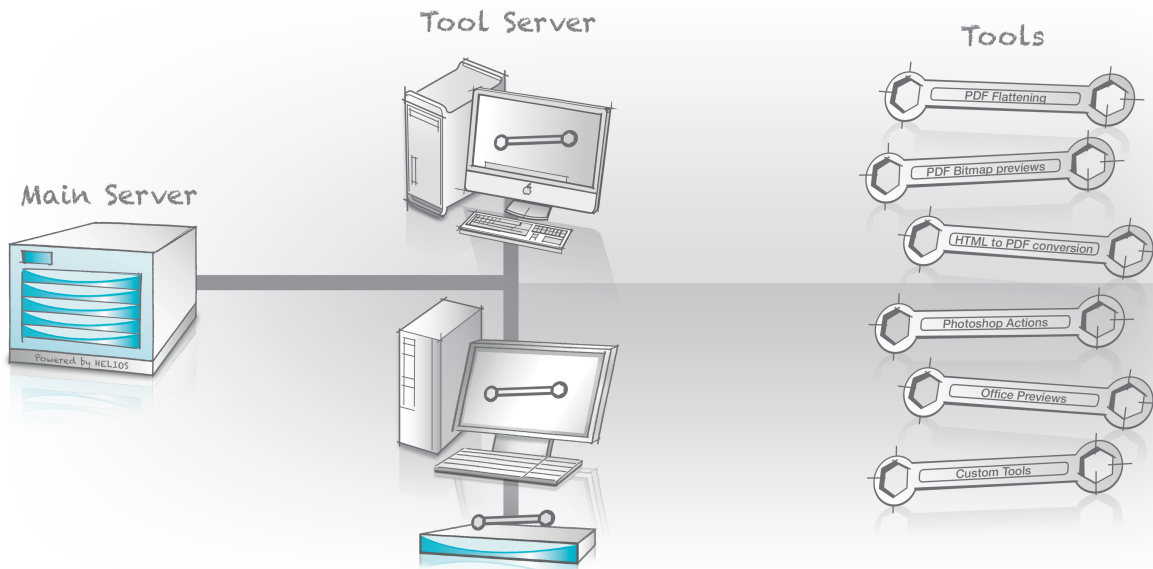
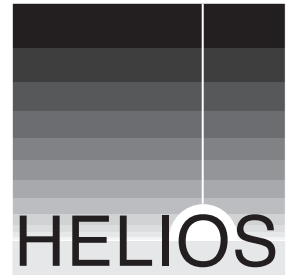
- Any executable (e.g. Perl, shell, ...)

Cross-Platform Client Support

- Mac, Windows, UNIX clients

Tool Server G8

Server-automated Client Applications



Tool Server G8 allows applications running on network clients to be automated and remotely used by the HELIOS server. Many applications and technologies are only available on a specific platform. Tool Server makes these required applications and technologies available to your HELIOS server, as a standalone process, or for integration into server workflows.

Most any application that can be automated (via e.g. AppleScript, shell script, VBA, Automator, etc.), on any platform (e.g. Mac, Windows, UNIX) can easily become a Tool Server tool. The system administrator simply needs to write the application automation script, and Tool Server does the rest.

The Client Server Infrastructure is provided by Tool Server. The “toolclient” application detects all servers automatically by using Bonjour and chooses the Tool Server workstation that offers the required service with the best performance. Automatic job load balancing, file transfers, processing, auditing, and error handling makes it quite easy. Jobs can be processed completely automatically

Smart Ideas for Better Networking.

using the Tool Server “toolclient” application, or by saving files into Script Server hot folders. Hot folder automation is easily set up and monitored via HELIOS Admin.

Sample Tool scripts are included for common processes such as flattening PDF documents by automating Adobe Acrobat, or sharpening images using Photoshop. In addition, examples are included for using AppleScript, Visual Basic, REALbasic, Perl, etc.

Remote Workflows can be enabled by sharing Script Server hot folders via HELIOS WebShare.

Licensing – the tool client requires an ImageServer license. Refer to the Tool Server manual for complete licensing details. Office to PDF conversion requires Microsoft Office on Mac and Windows (not included). Automated applications must be used in accordance with their licensing terms.

Features & Benefits

Ease of Use

- Easy to install, administer, use

Remote Automation Framework

- Job with settings is sent to tool server, finished job is returned
- “Run as user” support for tools
- Separate process for each job
- Load balancing and fail safety
- Cleans up temp files and processes
- Error report to the client
- Bonjour browsing to find tool servers
- HELIOS Bonjour server included

Available Tools

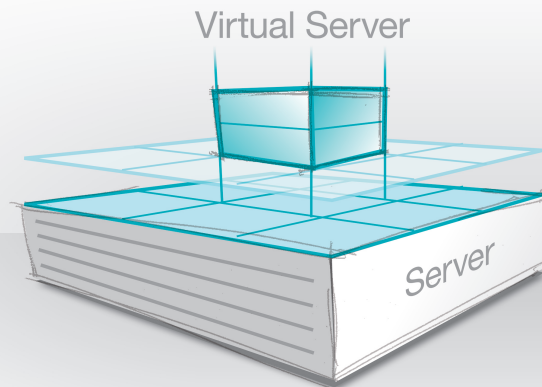
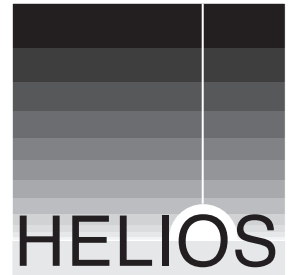
- PDF flattening via Acrobat (Mac/Win)
 - Office to PDF conversion (Word/Excel/PowerPoint)
 - HTML to PDF conversion (Mac)
 - Raw to TIFF conversion (Mac)
 - Photoshop actions (Mac AppleScript)
- More details and tools:
www.helios.de/web/EN/products/TS_examples.html

Cross-Platform Client Support

- Mac, Windows, UNIX clients

Virtual Server Appliance 3

Universal File Server Solution for Mac, Windows, Web and Mobile Clients



Turnkey Server Solution Innovative file server appliance for deployment in virtual machine (VM) environments. Ready to serve Mac, Windows, web and mobile clients using the HELIOS file server solutions. Reduce IT costs and improve flexibility for every business.

Optimized System Unlike proprietary appliances, this server is open, running a standard Linux OS optimized for the HELIOS file server solutions, to be deployed on x86_64 servers under all major virtualization solutions. The runtime is tuned for the highest security, robustness and superior performance, with minimum CPU, memory and disk resource requirements.

Remote administration from Mac and Windows via HELIOS Admin allows easy to use administration by users.

Data protection (snapshots)

Regular zero overhead snapshots provides continuous data protection for each volume. HELIOS setup tools allow data volume setup, volume resizing, disk migration without any service downtime.

Spotlight Searches Find files, content and metadata within seconds from any Mac, Windows, web or mobile client.

Mac File Server Supports AFP 3.3, Bonjour TCP printing, Time Machine backups, and Spotlight searches.

Windows File Server Offers SMB/CIFS compatible file and print services and supports Spotlight searches from Windows.

Web File Server Presents server files in gallery and list views, with zoomable previews of images and PDFs, and optionally Office documents. Download and upload files/folders and perform Spotlight searches.

NFS File Server Offers client and server file sharing capabilities using the NFS protocol.

Authentication Server Integrates into LDAP and AD/PDC environments.

Features & Benefits

Ease of Use

- Easy to deploy VM server image
- No client installation necessary
- Remote Administration (Mac/Win)

Supported VM Environments

- VMware ESX Server
- Microsoft Hyper-V

HELIOS Universal File Server

- HELIOS EtherShare
- HELIOS PCShare
- HELIOS WebShare
- HELIOS IT Monitor Server
- Spotlight search and indexing
- NFS Server
- Add-ons: HELIOS PDF, imaging, and workflow automation solutions

Appliance Operating System

- VM image with Linux runtime pre-installed with file server solutions
- Logical Volume Manager (LVM)
- File system snapshots (BTRFS) Every hour/day/week/month
- SSH server for remote service
- HELIOS Configuration Assistant

Smart Ideas for Better Networking.

System Requirements

Virtual Server Appliance

- One of the following environments:
 - VMware ESX Server 5 or higher
 - Microsoft Hyper-V 2008 or higher
- Min. 256 MB RAM; 10 MB per user
- Min. one CPU assigned to the VM
- Network interface

Product Highlights

Server Installation

- No installation required, ready to deploy virtual machine image

Client Installation

- No client installation necessary, Windows and Mac clients use native file server protocols

Server Protocols

- NFS Server for UNIX clients
- AFP 3.3 for Mac clients
- SMB/CIFS for Windows clients
- HTTP for WebShare clients
- mDNS server ("Bonjour")
- DHCP main and backup server
- Remote LPR
- SSH server
- HELIOS Admin server
- HELIOS TCP printer for Macs

Authentication Server

- Central server supports authentication of local host users, LDAP, and Windows AD/PDC users

Logical Volume Manager (LVM)

- Up to 8 Million TB per disk pool
- No file system size limitation
- BTRFS file system
- Volume pool with multiple disks
- Grow file systems on-the-fly
- Automatic file system snapshots every hour/day/week/month (configurable). Access to previous data via regular HELIOS volumes

A product from:

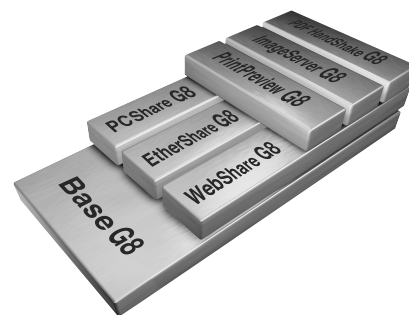
HELIOS Software GmbH
Steinriede 3
30827 Garbsen
Hannover, Germany
Internet: www.helios.de

Disks

- System disk 20 GBytes
- Data disk (per customer needs)

File Server Clients

- Windows, Mac, Web, NFS, iPhone/iPad



- Add/remove disks from pool without service downtime

Remote GUI Administration

- Remote server administration from Mac, Windows, and UNIX via HELIOS Admin
- Manages local users, volumes, printer and server settings, TCP/IP access lists, logs, etc.

HELIOS Configuration Assistant

Terminal based via console or SSH, allows initial password and network configuration. Manages HELIOS updates, system and data storage pools, file server services including NFS.

Security via Dedicated Linux OS

Only necessary network protocols are installed in the HELIOS Virtual Server Appliance. Additional Linux services or third-party solutions are not supported on this appliance and must be installed in a separate VM. HELIOS will support the complete server appliance including maintenance and security updates.

HELIOS Base Benefits

The HELIOS Virtual Server Appliance uses HELIOS Base, which provides these core HELIOS technologies: server fail safety, Unicode support, networking, and more.

HELIOS File Server Benefits

The file server foundation utilizes HELIOS EtherShare, HELIOS PCShare, HELIOS WebShare, Document Hub and HELIOS IT Monitor Server. Learn about them at: www.helios.de/products

Flexible Licensing Scheme

The HELIOS Universal File Server solution is tied to one virtual machine for a licensed number of users. The server is available with a 10 or 30 user license and optional user expansions in increments of 10, 50 and 100. The HELIOS price list describes the products and add-ons. Optional maintenance agreements: Software Upgrade Service, cold spare licenses. The Linux OS within the HELIOS Virtual Server Appliance does not require any license fee.

More details on the HELIOS website: www.helios.de/web/EN/products/start.html

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