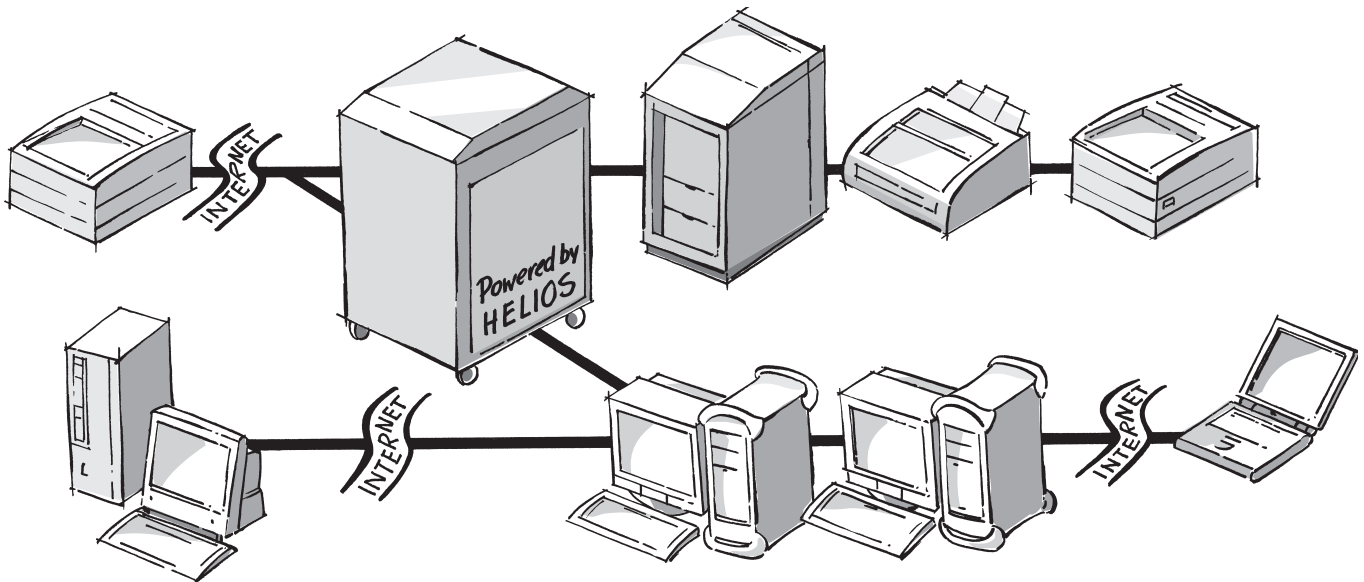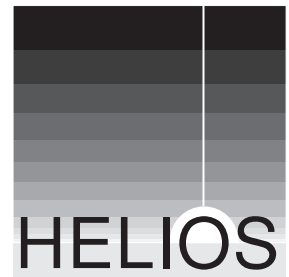# EtherShare 3.1

Highest-Performance Server for Macintosh Clients

HELIOS

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 Ether-Share 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 Image-Server 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 …
- 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

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.

- 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.
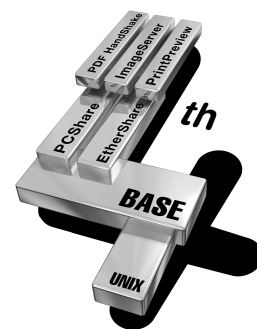
Print Spooler for Mac OS clients

- 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 bitmap preview of every print job
- PDF separation printing & OPI are optional extensions

- 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.

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