PCShare 2.5

High Performance Server for DOS/Windows-PCs

HELIOS

System Requirements

PCShare Server
- One of the following Unix systems: SunSPARC Solaris 1 or 2, IBM RS/6000 AIX, HP-UX 9 & 10, Silicon Graphics Irix, Data General AViiON and Intel AViiON, Motorola 88K SVR4, Digital Alpha Unix, Apple Network Server, other PowerPC systems under AIX 4.1 e.g. from Motorola
- Appr. 5 MB hard disk space
- 16 MB RAM; 512 KB RAM per active client
- TCP/IP network connection
- optional NFS, NIS/NIS+, DNS, BootP, …
- at least one network adapter; multiple adapters for load balancing in heavy duty environment

PCShare Client
- PC under MS-DOS/PC-DOS 3.3 to 6.2 ; Windows 3.1x or Windows for Workgroups; Windows 95 incl. Windows 95's command prompt only mode "MS-DOS 7"
- 150 KB hard disk space or diskless TCP/IP boot
- 640 KB RAM; PCShare needs less than 40 KB conventional RAM and can be loaded high
- ODI compliant adapter for Ethernet, Fast Ethernet, Token Ring, or FDDI; adapter may be onboard, ISA, EISA, MCA, PCI, or PCcard

Network
- Ethernet, Fast Ethernet, Token Ring, or FDDI
- Any TCP/IP network with arbitrary topology
- Unix name & dir. services, BootP are supported

Installation, Administration and Configuration

Server Installation
- Installation within minutes from CD-ROM with simple script; optional creation of an installation tape from the CD-ROM
- Automatic creation of a public volume with all PCShare programs and utilities
- Automatic creation of a guest account
- Installation by experienced user feasible

Client Installation
- Fast Installation from only one PC disk with menu-driven PCINST program
- Automatic configuration for Windows
- Creation of a subdirectory with PCShare's STARTNET.BAT file and a few other files
- Only the "Lastdrive" parameter is adjusted in CONFIG.SYS, no other changes are applied
- ODI drivers for many network adapters already included; others may be used instead easily
- Absolutely no TCP/IP configuration on the PC with PCShare's automatic address assignment; optional use of hosts file, BootP, or DHCP
- Easy publishing of local PC printers for use by Unix print queues, access restriction optional
- NetWare client software provided in license from Novell and stored on PCShare server

Server Administration
- Convenient, fool-proof server management with menu-driven PCADMIN program
- Special system & printer administrator groups
- Remotely from any PCShare PC or terminal
- Managing Unix users, groups and printers; optionally based on NIS "yellow pages"
- Exporting of volumes and printers for PCShare
- Gathering of extensive statistics on usage etc.
- Checking client network configuration & status
- Defining TCP/IP configuration incl. addresses
- Setting security options
- Adjusting character mappings for print output

Product Highlights

PCShare DOS Login and Windows Chooser
PCShare's services are accessed with a DOS login tool, a Windows chooser or by batch programs. There is Windows and Windows 95 integration including the help system. PCShare does not require extensive training for PC users and will easily be accepted by even unexperienced users.

File Services
PCShare offers extremely fast file services. Due to its great performance PCShare allows to boot hundreds of PCs remotely from a server and to run Windows with diskless PCs. All Unix disk space incl. NFS volumes, CD-ROM, MO etc. can be used for PC file services. Unix directories appear as DOS drive letters. Long Unix names are automatically mapped to proper DOS names; PCShare is always using 8.3 names. DOS file&record locking is fully supported.

Print Services
PCShare allows PCs to print to Unix spool systems using up to 9 "lpt" ports. It also redirects Unix print queues to locally attached PC printers. It is very easy to set up Unix spoolers and to redirect Unix print queues to PC printers in the network. The output to locally attached PC printers remains under the full control of Unix and Windows is not burdened with these print jobs. PCShare offers flexible character mapping to get proper output on various printers.

Standard TCP/IP Stack for Windows
PCShare provides 16 bit Microsoft WinSock and Novell LAN WorkPlace program interfaces. The stack is implemented as DLL and Windows driver. There is no need to preconfigure TCP/IP sessions, both TCP/IP program interfaces can be used simultaneously, TCP/IP sessions do not take up conventional DOS memory and there is virtually no limit on the number of concurrent sessions.
A WinSock 32 API for 32 bit Windows 95 applications is included as yet unsupported feature.

PCShare Terminal Emulation
PCShare includes an enhanced ANSI terminal emulation with ISO7, ISO8, PC and HP character set, 36 user definable function keys and black on white representation. It solves the basic needs of most users. For experts the terminal emulation accepts Unix commands at the DOS prompt and launches a session for executing the command. The terminal emulation is extremely fast and displays up to thirty screens per second.
PCShare also comes with a multi-session VT420 terminal emulation for Windows. It displays VT420, VT320, VT220, and VT100. It supports international keyboards, keyboard remapping, programmable function keys, and multiple sessions. This terminal emulation is a light version of White Pine Software Inc.'s "5PM Term".

User and Machine Profiles
The administrator can set up login procedures so that every time a certain PC is booted or a certain user logs in, individual batch programs are executed. This is a convenient and user friendly method to spread important news, synchronize user or configuration data, check for viruses or enforce certain activities like starting TSRs.

Security Options
PCShare can be configured to automatically disable local PC drives when connecting to a PCShare server or to boot diskless from server.

PCShare "tar" Program
PCShare provides a DOS "tar" program so that any PC can share Unix tape devices for remote backup.

Easy TCP/IP Setup
Beside standard methods for setting up IP addresses an unique automatic address assignment is offered.

Flexible Licensing Scheme
The server license is tied to a specific machine and a certain number of users. The server acts as license server for the TCP/IP stack and the terminal emulation. There is an attractive one server/one user kit for single PC solutions. License expansions are available in steps of add. 1, 5, 10, 20 or 100 users.

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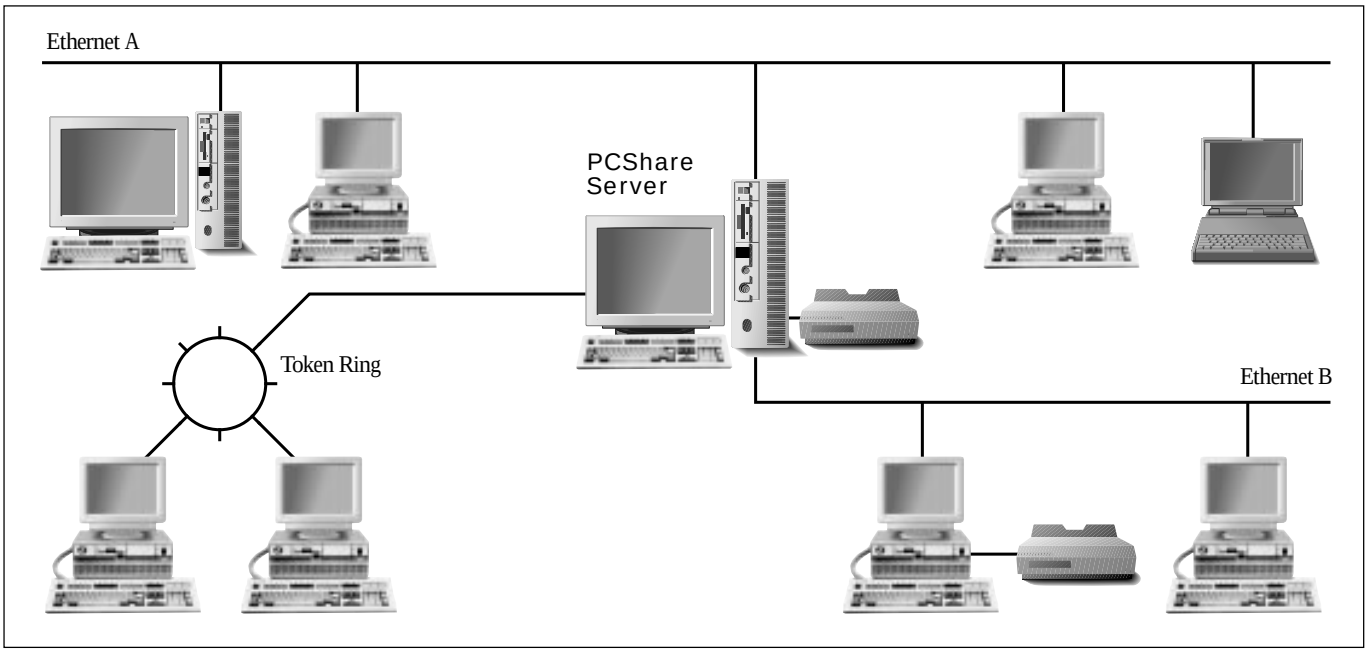

PCShare provides extremely fast, reliable, feature-rich networking services for DOS and Windows PCs. It is fully compatible with standard DOS and Windows programs, incl. multi-user applications, supports entry level PCs and excels in ease of use.

Sharing files and printers is simple and straightforward with PCShare's login program for DOS. Windows users enjoy full Windows integration, mount drives and printers with a network chooser and examine remote directories in the File Manager with the appropriate PCShare extension.

PCShare allows any standard Windows program to use its networking capabilities by means of the Microsoft WinSock API. E.g. PC users access Oracle or Sybase databases, emulate terminals with KeaTerm or teemtalk and view X applications with eXceed or teemX. Commercial solutions like SAP R3 or company wide electronic mail like HP's OpenMail clients can be used, too. A myriad of Internet software for Telnet, FTP, Gopher, world-wide web etc. is supported.

Customizable login scripts can be executed with PCShare's user and machine profiles. Users access Unix or even issue Unix commands from the DOS command line with PCShare's terminal emulation. Unix tape drives can be used to backup local PC data.

Strict security can be enforced by disabling all local PC drives or with diskless boot.

PCShare is based on standards: proven TCP/IP communication, Unix systems, WinSock program interface, ODI network driver interface etc.

PCShare ensures a smooth growth path. It scales from one user to hundreds of nodes, from entry-level workstations to most powerful multiprocessor RISC servers, from a single Ethernet to complex internets.

PCShare coexists nicely with other networks like NetWare or Windows 95 on the same PC. It is a great link between PC based networks and powerful Unix systems. It is possible to try PCShare on a few PCs and add more over time without disruption of daily work.

PCShare is designed with crossplatform in mind. It tightly integrates Unix and by means of optional Helios EtherShare also Macintosh. It offers sophisticated printing and with EtherShare OPI a full OPI solution.

Features & Benefits

Highest Performance

- ✔ FDDI 6 to 8 MByte/s, Fast Ethernet 5 MByte/s, Ethernet 1 MByte/s
- ✔ Fast and reliable printing

Modest Requirements

- ✔ Only 40 KB conventional PC RAM needed; can be loaded high
- ✔ Runs even on 8086 or 80x86 PCs with 640 KB RAM under DOS 3.3
- ✔ Supports ODI compliant adapters

Ease of Use

- ✔ Fast installation from CD-ROM
- ✔ Menu-driven administration
- ✔ Easy network setup with automatic node address assignments
- ✔ Provisions for troubleshooting
- ✔ Full Windows integration

Flexibility

- ✔ Suite of network services
- ✔ MS-DOS 3.3 or newer, Windows 3.1x, WfW, Windows 95
- ✔ Full DOS file and record locking
- ✔ WinSock & LAN WorkPlace API
- ✔ Coexists with other PC networks
- ✔ Unix servers from Sun, IBM, HP, SGI, DG, Digital, Apple, …