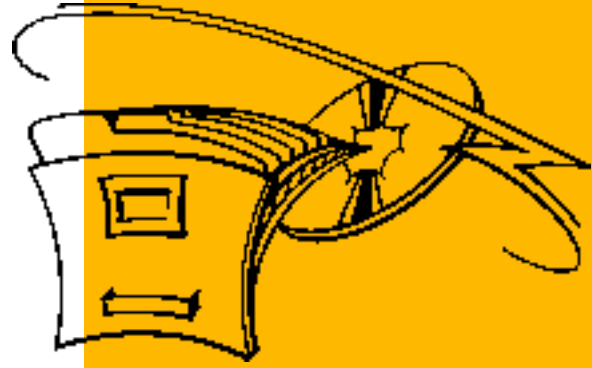# ACCESS TO UNLIMITED DATA ON CD-RECORDABLE MEDIA

◻ *Need a CD storage solution for a heterogeneous operating system environment?*

◻ *Ready to invest in the storage technology of the future?*

◻ *Do you want single point access to CD archives?*

SMARTCD ARCHIVE, NFS SERVER VERSION

We engineered our successful SmartCD Archive software into a solution that supports heterogeneous network environments through the NFS protocol. The dedicated server manages multi-user access to the CD storage structure for any client (PC, Macintosh, UNIX) running NFS. With features like multi-threaded access and hardware independence, it's a complete solution for managing text, data or multimedia archives on CD media. SmartCD Archive offers these benefits:

◻ **Proven** technology with over 1500 installed sites in mission critical applications.

◻ **Adapts** to changing storage needs by letting clients attach to multiple servers, each capable of managing 392 CD storage devices.

◻ **Transforms** your CD storage structure into a large, virtual, read-only hard drive.

◻ **Manages** multi-user access to data sets ranging in size from gigabytes to terabytes.

◻ **Independence**-Choose the storage devices you want from our unparallelled device support list.

◻ **Eliminates** the need to manipulate CD-ROM device drivers like MSCDEX.

◻ **Compatible** with any standard file-based application for seamless access to data from within the retrieval software.

◻ **Save** with the lowest cost-per-megabyte technology--lower even than hard disk or WORM or other optical solutions.

HOW DOES IT WORK?

Clients attach to the server via NFS. SmartCD Archive takes the directories of all CDs in all storage devices, and makes them into a single unified directory. With standard UNIX security, administrators can control access to files and directories.

SmartCD Archive Caching
The unique caching schemes developed by Smart Storage are a large part of what makes SmartCD Archive out-perform the competition. The method is three-fold:

◻ ***Optimal directory loading*** *keeps directory information of all CDs on hard disk. No need to load a disc in a reader every time you want a directory.*

◻ ***Data block caching*** *places a copy of retrieved data into cache in RAM or hard disk. When the data is requested again, the information is instantly available.*

◻ ***Read-ahead caching.*** *By anticipating requests for information and moving that data to cache, SmartCD Archive reduces unnecessary reloading of the same disc in a jukebox.*

SMART STORAGE

ADMINISTRATION

- Supports all SCSI CD-ROM drives and jukeboxes transparently-no device drivers.
- Use UNIX permissions to control data access.
- Provides system backup/restore capabilities.
- Mount multiple file systems simultaneously.

PERFORMANCE & ACCESS

- Single mount point access to all data.
- SmartCD Archive's multi-tiered caching improves access time.
- View all CDs on the system as a single volume, or as a volume per disc.
- Asynchronous device support provides concurrent access to multiple drive and jukebox devices.
- Supports any NFS client.

MEDIA STANDARDS SUPPORTED

- ISO 9660
- ISO 9660 with Rock Ridge extensions
- High Sierra

SYSTEM REQUIREMENTS

Server:

- 486 or faster PC with bootable DOS disk, 16 MB RAM, and DOS 5.0 or higher.
- Network Interface Card.
- Adaptec SCSI adaptor.
- SCSI-2 non-boot hard disk.
- One or more CD storage devices.

Workstation:

Any NFS client.

Authorized Smart Storage Reseller:

DEVICE SUPPORT LIST

SmartCD Archive supports all SCSI CD-ROM drives and towers, plus jukeboxes and minichangers manufactured by:

- Pioneer
- DISC
- Sanyo
- Nakamichi
- Plasmon
- Denon

- NSM
- ASM
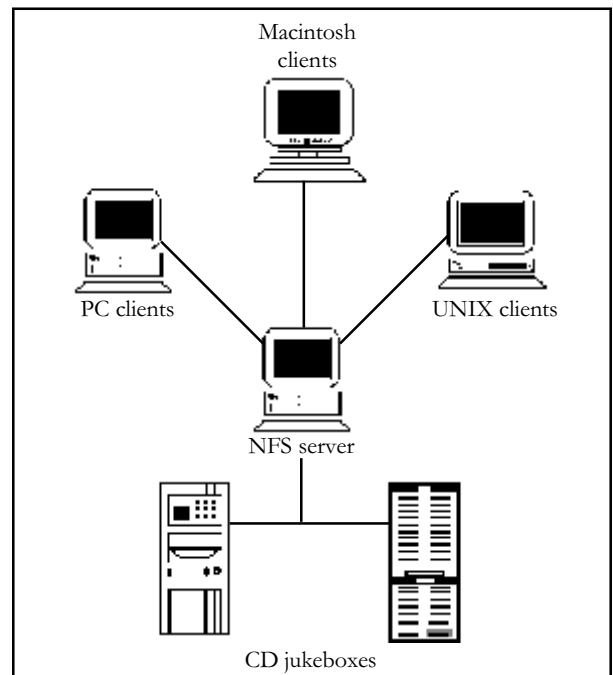- Regal
- K & S
- DSM
- LA Sound

Diagram of a typical SmartCD Archive server configuration, capable of handling from 1 to 10,000 GB.

SMART STORAGE

Smart Storage Inc.
100 Burtt Road, Andover, MA 01810 USA
Phone: 508/623-3300 Fax: 508/623-3310

World Wide Web: **http://www.smartstorage.com**

Smart Storage Europe:
Zeppelinstrasse 71-73, 81669 Munich, Germany
Phone +49 (89) 447-0386 Fax: +49 (89) 447-0917