TODD Enterprises, Inc.

FOR WINDOWS NT/2000/2003 Server

Today, more than ever before, corporations need a comprehensive game plan on how to store and maintain the enormous amount of information that is being created on a daily basis. Previous methods of information storage have proven to be expensive, unreliably and labor intensive.

How can business avoid the bottlenecks of data management that can threaten growth?

The rapid development of information technology has allowed business the opportunity to connect employees, partners, and prospective customers via LANs, WANs and the Internet. The success of many companies in the future will depend on how successful they can share this information with these groups in order to gain a competitive advantage and ultimately grow their business.

How can a company control its spiraling IT storage cost while still maintaining a strategic business advantage?

CDs and the today's newer DVDs technology has set the standard for long-term storage to an optical format. Backwards compatibility and low cost media have made this format a favorite for data distribution, replication and document archiving. CD and DVD-ROMs have the unique ability to maintain several different levels of access and/or management depending on the need and/or cost consideration.

1. **Online** - This configuration provide direct access to data via physical CD/DVD drives and virtual optical media for fastest data access time via tower arrays.
2. **Near-line** - This configuration offers a good balance between the need to access seldom-used data and by storing it to cost effective hi capacity optical jukeboxes
3. **Offline** - This configuration offers the most cost effective way to storage document imaging rarely needed but required by law to maintain for a certain amount of time.

Scinet XP Optical Manager software is a sophisticated Windows based Hierarchical Storage Management solution (HSM), designed to manage your networked optical CD or DVD devices. XP Optical Manager software is designed to seamlessly integrate into the Windows NT/2000/2003 operating kernel supporting all NT/2000/2003 supported network clients. XP Optical Manager lets you decide which storage access level is best for you and manages your devices and data.

Scinet XP Optical Manager is the perfect solution whether you have a small CD-ROM tower to a DVD-ROM jukebox with several terabytes worth of data. Scinet XP Optical Manager's intuitive graphical user interface simplifies the application setup process. All configuration and administration can be done with this user interface, even from a remote Windows 9x/NT/2000/XP computer that is connected to the network. Its Jukebox File System is designed to offer transparent drive letter access for today's CD/DVD jukeboxes as well as multiple drive and changer tower arrays. Most of the actions can be performed using simple drag & drop operations.

Scinet XP Optical Manager uses Windows NT/2000/2003's share capabilities to provide network access to jukeboxes. Thus you can use the NT security to modify the access rights for the jukebox volume as well as for specific groups of media providing protection for sensitive and line of business information.

Scinet XP Optical Manager features:

- **Single or multiple drive letter access to data through the Jukebox File System**

XP Optical Manager Jukebox File System can combines all devices and drives under a single letter or use multiply volumes for easy of access from a shortcut on the desktop. The Jukebox File System allows for flexible volume management so that each disc can appear as separate subdirectories as well group configuration for organize titles.

- **Statistically Analysis and Configurable Licensing**

XP Optical Manager administration utilities help you efficiently manage the optical data in your system. System information lets you track the amount of times discs are moved into a drive, the number of read requests, the cache hit rate for system hard disk as well as the MB read per disc. Medium Change Optimization uses an intelligent algorithm to minimize the number of medium changes. The algorithm can calculate a priority key out of a list of parameters to decide on the mounting or mounting of media. You can also set the number of concurrent users that can access any particular disc, keeping you in compliance with your application licensing.

- **Write to CD-R, DVD-R and even DVD-RAM with the Event Controlled Recording (ECR) Module**

XP Optical Manager Event Controlled Recording (ECR) Module make it possible to write to both once write (CD-R, DVD-R) or many write (DVD-RAM) media formats for those interested in archiving or backing up data. The Event Controlled Recording Module allows users configure the events regarding the recording session:

  - On Demand
  - Automated by Timeframe
  -Automated by Watermark

Dynamic file system can automatically integrate newly write media into Jukebox File System. Multi-thread application design allows for simultaneous recording and reading.

- **Configurable Caching for Express Data Access increase jukebox performance**

Configurable Caching boosts performance of jukebox-based system while reducing wear and tear on the jukebox robotics mechanisms. Caching frequently accessed data to hard drive increase performances over standard jukebox readers (up to 66x) while allowing more users access to information simultaneously from the server hard disk. Less disc swapping means greater jukebox reliability and extended device life. Caching options include:

  - Permanent Directory Cache
  - Block Base Read Cache
  - File Base Write Cache

- **Virtual Jukebox increases performance and is an easy and cost effective means to increase the capacity of your current optical system**

XP Optical Manager Virtual Jukebox can dramatically increase the your present disc capacity without increasing the devices footprint space. Virtual Jukebox allows complete disc mirroring to hard drives increasing both capacity and performance (up to 66x) out of your jukebox or tower array.

- **Offline Media Manager makes sure no disc fall through to cracks**

XP Optical Manager Offline Media Manager automatically records vital disc info when disc are remove from the jukebox or tower. This makes it easier to control disc inventory once outside the box and will automatically reconfigure if disc is reinstalled.

- **Automatic Device Configuration**

XP Optical Manager automatically detects all supported devices for fast an easy setup.

Server Requirements

Requirements for CD/DVD-ROM read and DVD-RAM read/write access:

- Windows NT 4.0, 2000, or 2003 Server operating system requirements plus additional 32 MB RAM
- 2 MB hard disk space per 1 GB of storage capacity for the directory cache plus space for the data cache

Additional requirements for CD/DVD recording configurations:

- 400 MHz Pentium based system
- OS requirements plus additional 96 MB RAM
- Dedicated hard disk (access time and data through-put depend on number and type of configured CD-R/DVD-R drives)
- PCI bus master SCSI controller
- Dedicated SCSI bus for up to four CD-R drives or one DVD-R drive

Supported CD/DVD standards

- High Sierra
- ISO 9660
- Apple HFS
- CD-Bridge – multi-session
- CD-ROM XA
- Joliet
- UDF (DVD-RAM only Version 1.02 read/write Version 1.5 and 2.0 read only)

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