

Begees Digital Library Solutions



Begees Computers Pvt. Ltd.

Digital libraries have become essential offerings for Libraries, providing significant direct benefits to both end users and to the functioning of the library itself.

A successful digital library maximizes the value by:

- **Facilitating knowledge distribution and use**
- **Providing services and content that add value**
- **Supporting, building and sharing of knowledge**

Beegees Computers Pvt. Ltd. (BCPL) presents Digital Library Solution, an ideal solution to create world-class digital library. This solution comprises of hardware and software which enables libraries to organize, manage and access its entire digital content like CDs and DVDs, Photos, Videos, Ebooks, Digitised books, Project reports, Thesis, Descriptions and any other kind of digital data instantly & efficiently. Beegees Digital Library solution offers superior search capabilities and CD/DVD disc management and network file storage.

DIGITAL LIBRARY FEATURES

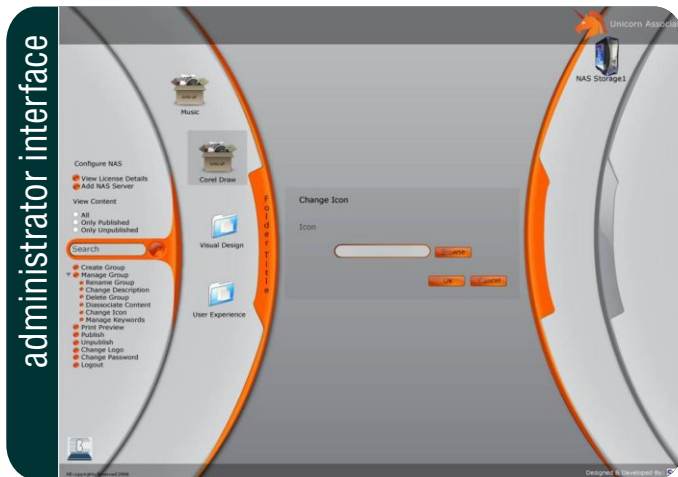
- Search interface provided for users to search on two levels, basic as well as advance – Full Text search. The search provides Multilingual support.
- The user interface provides scope for branding of the institute.
- The Solution allows creation of unlimited groups and subgroups.
- An Administrator can associate data from the storage to different groups and subgroups. A single group may have data from multiple storage servers.
- It Integrates all the different mirror / NAS storage servers (Existing as well as models available in future). This gives unlimited expandability and protection of investment.
- Provides unisolution for both CD/DVD disc management and network file storage.
- Stores unlimited volumes (CD/DVD Discs) and organises them efficiently (4000 volumes per storage server) .
- Data is simultaneously accessible by multiple Operating systems i.e. users can be on any operating systems and will be able to access the data seamlessly from the NAS Server.
- Dual Gigabit Ethernet (10/100/1000mb) interfaces for enhanced performance.
- Disc creation technology with in- built support for CD-R/RW, DVD-R/RW, DVD+R/RW, 8GB Double Layer DVD-RW DL standards and Blu-ray.
- Ability to limit concurrent connections per share to help control licensing restrictions.
- Use as disk-to-disk backup target server to replace slow tape backup servers.
- Built-in Trend Micro anti-virus engine and automatic pattern updates are free of charge.
- A diverse backup solution provides full range of data backup policy for disc-To-CD/DVD, Disc-To-Tape, Disc-To-Disc and server-to-server backup solutions (Advance tape less backup).
- High System Reliability: A dedicated port for each disk drive, providing greater system reliability through individual drives and cable fault isolation.





USER INTERFACE

The User Interface is simple, intuitive and user friendly. The user can browse all published groups & allows users to directly access the content by double click. A single click displays the description and key words associated with the group. In addition to browsing and accessing, the user is given a powerful search tool. The search is divided in basic and advanced. In basic search the user can search on file / folder name, File type, Key words. In advanced search, User can search within all editable documents like Word, Excel, PDF, PowerPoint etc. Once the search results are displayed, the user can double click to access the content. The software is specially made so that the data is opened in native applications on the user machine, this ensures optimum speed and does not sacrifice output of data.



ADMINISTRATOR INTERFACE

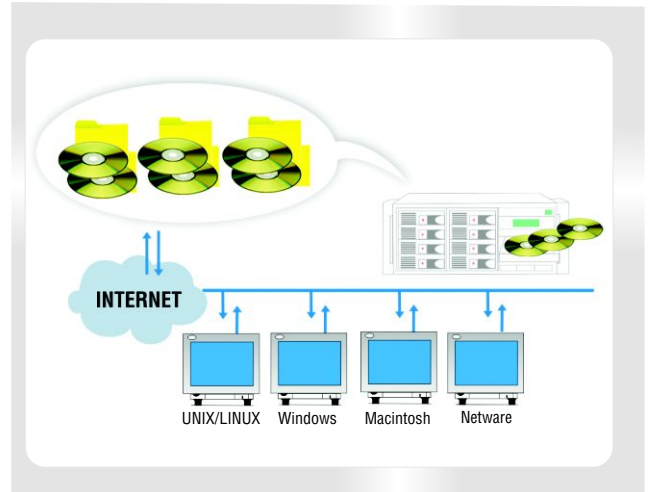
Content manager Administrator, allows the administrator to create custom groups / sub groups. In addition, when creating the groups the administrator can give a brief description of the contents for user knowledge. The administrator can also associate key words to these groups. The Administrator can browse a single or multiple servers and associate data from these servers to the groups. S/he can associate same data to multiple groups. The groups may have data from multiple servers. Once associated, the administrator has an option to review/print the group data before publishing.

Once published the data becomes visible to the users. In addition, the administrator module offers a host of other functionalities required for the smooth functioning of the software like change/ addition of description, change / addition to keywords etc.

DISCSERVER

CD/DVD disc management and sharing solution

- Concurrent disc sharing for Windows, Macintosh and UNIX clients Mount ISO-9660 and HFS simultaneously for hybrid discs
- Grouping of multiple discs under a share
- Support various CD or DVD formats, including ISO-9660, Joliet, Rock-ridge, HDF, UDF, hybrid and multi-session discs, etc.
- Easy to create and manage CD and DVD images
- Duplicates a CD image in minutes
- Hosts up to 4,000 disc images per server
- Supports CDs or DVDs of any size
- Easy-to-use web interface to manage disc images



SmartSync

A smart backup and synchronization solution

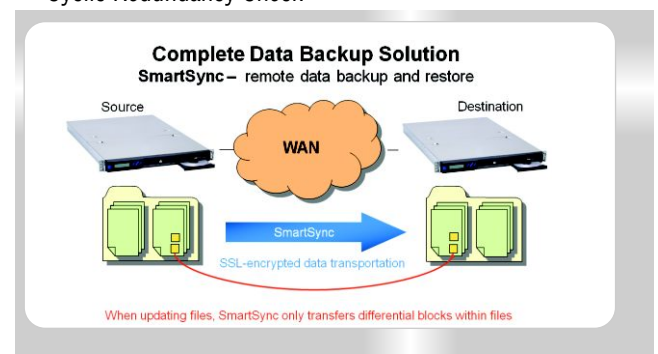
Smart Sync provides a cost effective and efficient implementation of remote data redundancy. There are different designs of implementing data replication - volume - based and file-based approaches. We provide the data replication feature- Smart Sync-by balancing between the two approaches. It replicates data file by file, while deploying differential block transfers during file replication. It is a balance between flexibility and efficiency.

Features

- File-based Block-level data synchronization
- Checks data differences "file-by-file" and transfers the diverse "block" only
- Transfers data along with "security" stream
- Goes over SSL during all information exchange

Other benefits

- Compressed data before transferring
- Bandwidth control
- File filtering
- "Quick synchronization" to avoid unnecessary Cyclic Redundancy Check

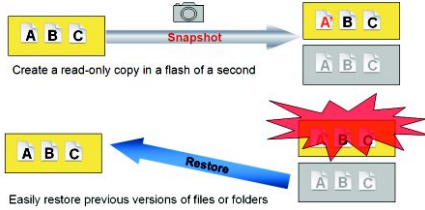


SNAPSHOT

- Provides a point-in-time copy of a “volume”
- No need to pre-allocate space for snapshot
- 256 snapshot versions per volume
- Capable to roll back a snapshot to an active file system, created by administrator
- Retrieve previous versions of files, created by users
- Take “snapshot” by schedule
- Take “snapshot” automatically before using: CD/DVD writing, tape backup, SmartSync
- Ease of management to previous snapshot versions

Complete Data Recovery Solution

Snapshot – Instant file system backup and restore



DATA ARCHIVING

The data archiving feature becomes more versatile by integrating with the Disc Server function. During data archiving, it firstly converts the archived data into disc images, then burn them out, while the Disc Servers manage and share CD/DVD discs in the form of disc images. You can choose to turn some less-frequently-used files to read-only disc images first, which can be mounted and shared with the network users by using the Disc Server function. When the archived disc images are not in use for a long time, you can then choose to burn them to discs, further freeing up hard disk space.



TECHNICAL SPECIFICATIONS

Features	DLS	DLS-E
Hardware	Pentium III 1.28 GHz Supports upto 512 MB PC-133 SDRAM, On-Board dual Intel Gigabit Ethernet Interface, Integrated with a DVD RW drive., 350W Single Power Supply, PCI expansion slot x 1	Pentium IV 2.8 GHz with 512KB L2 Cache Support upto 2GB Un-buffer ECC or non-ECC DDR 266/333 memory, 2 DIMM slots, On-Board dual Intel Gigabit Ethernet Interface, Integrated with a DVD dual DL drive., 350W Redundant Power Supply, PCI expansion slot x 3
Storage	Up to 8 hot-swappable high capacity Serial-ATA hard disk drives	Up to 8 hot-swappable high capacity Serial-ATA hard disk drives
Software	Beegees Content Manager	Beegees Content Manager
Network Environment	Network operating system compatibility: Microsoft Windows 95/98/me/NT/2000/XP/2003/Vista Unix: Solaris, Free BSD, Linux, and other UNIX derivatives MAC OS 8.x, 9.x, OS X	Network operating system compatibility: Microsoft Windows 95/98/me/NT/2000/XP/2003/Vista Unix: Solaris, Free BSD, Linux, and other UNIX derivatives MAC OS 8.x, 9.x, OS X
Network Protocols	TCP/IP, AppleTalk, IPX HTTP, CIFS/SMB, NFS v3, NCP, FTP, AFP	TCP/IP, AppleTalk, IPX HTTP, CIFS/SMB, NFS v3, NCP, FTP, AFP
System Management	BOOTP; RARP; DHCP; DNS; WINS; SMTP; SNMP; NTP; SSL Multi-lingual web-based interface for system administration, LCD console for setting IP addresses and displaying system information, User quota control and folder quota control, Environmental monitoring of system/CPU temperature, CPU fan speed and CPU Voltages, NASTart, a multi-server administrative utility for quick setup, System configuration backup and remote disc caching, S.M.A.R.T. disk drive monitoring for reliability, E-mail notification, SNMP management (MIB II) and system buzzer alerts	BOOTP; RARP; DHCP; DNS; WINS; SMTP; SNMP; NTP; SSL Multi-lingual web-based interface for system administration, LCD console for setting IP addresses and displaying system information, User quota control and folder quota control, Environmental monitoring of system/CPU temperature, CPU fan speed and CPU Voltages, NASTart, a multi-server administrative utility for quick setup, System configuration backup and remote disc caching, S.M.A.R.T. disk drive monitoring for reliability, E-mail notification, SNMP management (MIB II) and system buzzer alerts
Data Protection	Embedded Snapshot technology for maintaining consistent backup images of file system (256 Snapshots standard) (optional) RAID 0, 1, 5 and JBOD with global hot-spare and RAID Expansion, NAS-to-NAS data synchronization with SmartSync. Advanced RAID bad sector recovery mechanism (BASIC VERSION), Local tape backup with SCSI tape drive support (optional), DVD+_R/RW, Dual-Layer DVD+_R, CD-R/RW burning capability	Embedded Snapshot technology for maintaining consistent backup images of file system (256 Snapshots standard) RAID 0, 1, 5 and JBOD with global hot-spare and RAID Expansion, NAS-to-NAS data synchronization with SmartSync. Advanced RAID bad sector recovery mechanism, Local tape backup with SCSI tape drive support (optional), DVD+_R/RW, Dual-Layer DVD+_R, CD-R/RW burning capability
Network Security	Built-in Trend Micro antivirus software, Integrate with Microsoft Windows NT/2000/2003 Domain and Active Directory environment Support UNIX Network Information Service (NIS), Support Access Control List (ACL), Secure Sockets Layer (SSL) 128-bit encryption	Built-in Trend Micro antivirus software, Integrate with Microsoft Windows NT/2000/2003 Domain and Active Directory environment Support UNIX Network Information Service (NIS), Support Access Control List (ACL), Secure Sockets Layer (SSL) 128-bit encryption
Multilingual Support	Localized web-pages: English, traditional Chinese, Simplified Chinese, Korean, Japanese, French, German, Italian, Spanish Code-pages: English and Western European, CJK DBCS, Hebrew and Arabic, Unicode	Localized web-pages: English, traditional Chinese, Simplified Chinese, Korean, Japanese, French, German, Italian, Spanish Code-pages: English and Western European, CJK DBCS, Hebrew and Arabic, Unicode
Operating Environment	Operating Temperature: 0 – 40 deg C, Operating Humidity: 10 – 80% non-condensing	Operating Temperature: 0 – 40 deg C, Operating Humidity: 10 – 80% non-condensing
Approvals	FCC Class A, cUL, UL, CE, BSMI	FCC Class A, cUL, UL, CE, BSMI



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