SmartDAX Blu-ray Archive

Challenge

Storage environments have the tendency to grow endlessly. Most users expect the system to preserve their data infinitely, are reluctant in deleting any data and are creating new data almost every day.

Nobody likes tedious tasks such as cleaning up storage or archiving files that are no longer used. These trends result in **ever expanding storage systems** containing large amounts of data, which don't change anymore or are never even used again.
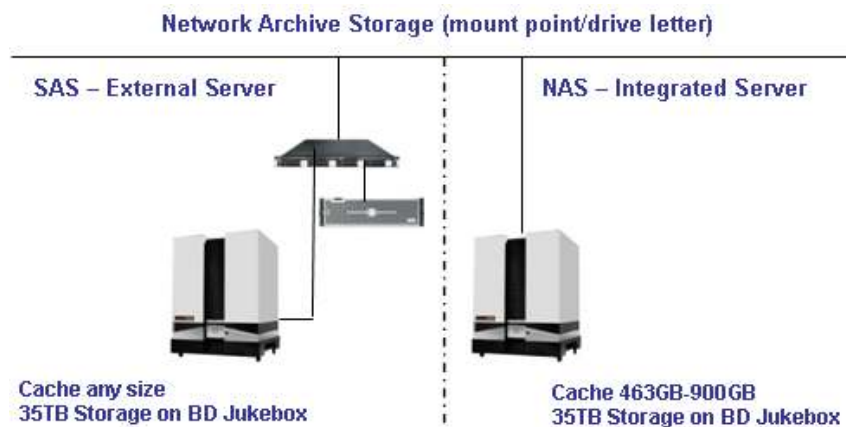
The total costs of storage (investments in equipment, support & maintenance, backup, upgrades, power, cooling, systems management) are proportional to the size and complexity of the storage systems implemented.

Hence, the constant growth is driving the costs for storage up for most organisations.

Many organisations have a natural need for archiving. Sometimes these requirements originate from legislation or compliance.

In other cases required re-use of data or efficiency drive can be the trigger for the desire to **professionalize archiving** by automating and integrating it into the primary business processes.

Solution

Network Archive Storage (mount point/drive letter)
SAS – External Server
NAS – Integrated Server
Cache any size
35TB Storage on BD Jukebox
Cache 463GB-900GB
35TB Storage on BD Jukebox

The **SmartDAX Blu-ray Archive** incorporates innovative Blu-ray Disc (BD) technology, enabling file based archiving permanent storage media and maintaining direct access to the archived data.

It features fully automated data archiving using an **optimum combinatio**n of hard disk storage with Blu-ray technology (library). The end effect yields immediate and permanent access to any archived file. It is the perfect solution for enterprise environments to automate the archiving process of large quantities of data.

A single **SmartDAX Blu-ray Archive** offers a capacity of up to 35 TB.

There are two types of models available:

- (**NAS**) Network-attached models including a small, integrated server. Performance: up to 75 GB/day.

- (**SAS**) Direct-attached models. These models require an additional server and offer improved scaling when compared to the NAS model. Performance: up to 300 GB/day.

There is a variety of models available, which can be upgraded and daisy-chained. This offers high flexibility and **unlimited scalability.** Customers are able to start with a small footprint and grow into larger systems if and when more capacity is required.

Benefits

- Massive Blu-ray Disc storage capacity: 10 TB-35 TB/jukebox.
- Instant and permanent access to on-line RAID and near-line Blu-ray Archive.
- Fully automatic archiving and retrieving of data.
- Write-once technology: BD-R.
- Unlimited scalability: multiple Blu-ray libraries can be combined to increase storage capacity.
- Web browser access for remote configuration & management.
- Complete solution from a single supplier: software, hardware & support.
- Promising technology roadmap: 100-200GB/Blu-ray Disc.

Contact for more information:

DAX Archiving Solutions

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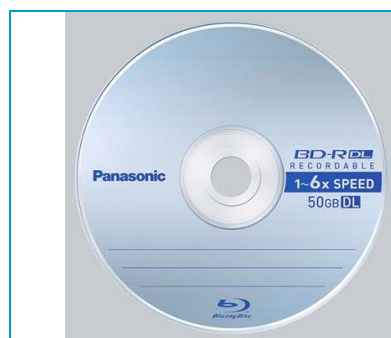Tel: +31 (0)23 517 26 30
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Secure the Future of your History

No. of slots	200	300	400	700
Blu-ray storage capacity	10TB	15TB	20TB	35TB
Number of drives	2 or 4 drive models available.			
Media import/export	Mail slot			
Included software	DAX file system software (DAXfs)			
Data access time, cached data	< 1 sec			
Media access time	< 7 sec			
MSBF (mean swap between failure)	> 1,000,000			
Supported media read	BD-ROM / BD-R		DVD-ROM rec. / DVD-R/RW	
Supported media write	BD-R 25 GB / BD-R 50 GB		DVD-R 4.7 GB / DVD-R 8.5 GB	
Client support	Windows (SMB), UNIX/Linux (NFS)			
Dimensions (lxwxh)	25" x 25" x 35" / 64 x 64 x 88,5 cm (NAS version) 25" x 25" x 31"/ 64 x 64 x 78,5 cm (SAS version)			
Weight (max)	268 lbs. / 122 kg (without media) (delivery without media)			
Power requirements	100-240 V, 50/60 Hz, < 400 W			
Temperature specifications	Operating: 50F to 95F /+10°C to +35°C Non-operating: 14F to 122F /-10°C to +50°C			
Relative humidity	10 to 80% (non-condensing)			
Regulations	EMC directive – 89/336/EEG			

Specifications available NAS model:	
System expansion options	Two PCI Slots
File cache setup	Max. 4 disk RAID 0+1 (mir. stripe)
File cache capacity	Standard: 1000 GB gross (463 GB net, mirrored) Expandable to: 2 TB gross (900 GB net, mirrored)

Blu-ray technology is well on its way to replace the widely adopted DVD technology, providing a continuous growth path in optical storage technology.

It offers low-cost, write-once technology on removable and standardized media. Thanks to it minimal power and air-conditioning consumption requirements, CO_2 emission is reduced significantly. This provides an even more cost-efficient solution and contributes to a better environment.

The prolonged media life of Blu-ray Discs, 50+ years, ensures a professional and permanent archive solution.

SmartDAX Blu-ray Archive

The **SmartDAX Blu-ray Archive** is controlled by **DAX f**ile **s**ystem archiving software (DAXfs).

DAXfs provides a simple and intuitive HSM based interface where users save, copy, archive and retrieve files through standard operations, hence no special user training is required.
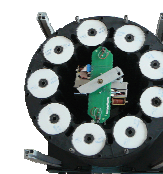
File and Folder Archive Software (FFA) is optional and provides a flexible platform for automating any digital archive requirement for archiving complete structures of files and folders.

It offers more advanced features such as file spanning, adding metadata, low-res previews, versioning, automated back-up etc.

Mail slot for import & export of blu-ray media

Top view storage units

Integrated server

User interface DAXfs software