

UDO ARCHIVE APPLIANCE

TIERED ARCHIVAL STORAGE

Archival storage that delivers the performance of RAID with the unmatched longevity and authenticity of UDO in a tightly integrated solution

The long-term retention of documents and images is a growing burden for organizations across virtually every industry. The requirement to comply with new regulations while managing operational risk and fully exploiting the value of their information assets is compelling companies to look for more sophisticated archive solutions. Applying traditional technologies and short-term storage strategies simply cannot meet these evolving demands.

With a 20-year history in the archival storage industry, Plasmon understands the new storage reality faced by organizations. Archive records must be secure for many years, quickly accessed when required and the entire system must operate with minimal IT burden and low Total Cost of Ownership. Plasmon's experience has shown that this multidimensional challenge requires a optimized solution; a hybrid architecture that combines the strengths of different technologies in a tightly integrated tiered archive.



UDO Archive Appliance

The UDO Archive Appliance satisfies the demands of today's archive environments by combining the performance and ease-of-use of RAID with the longevity and authenticity of UDO®. This hybrid solution leverages disk and optical technologies to meet essential archive requirements in a way that more traditional, monolithic, storage products cannot match.

The tiered storage design of the UDO Archive Appliance brings together the capabilities that are most critical to the success of a record archive: longevity, speed, access and control. UDO is a proven archive technology with media longevity and record authenticity far superior to magnetic-based storage. A RAID cache delivers high-performance read/write speeds. The NAS server interface provides simple network access to the archive and it is all controlled through optimized archive software. The UDO Archive Appliance is extremely simple to implement and the tiered storage model offers a very low TCO.

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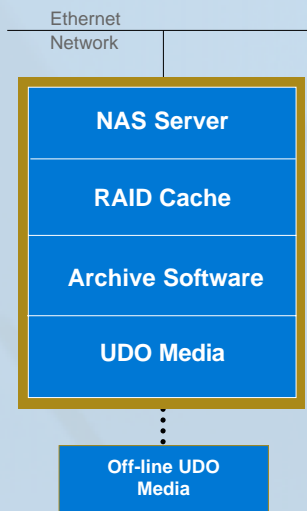
Tiered Storage Architecture

The design philosophy behind the UDO Archive Appliance is to apply technology strengths where they can be leveraged the most. This is achieved through the use of tiered storage that employs appropriate technologies at the different stages in the archive. Using a NAS server interface, the UDO Archive Appliance appears as a standard network attached file system. This allows image capture and content management applications to be quickly certified with the UDO Archive Appliance without the need to implement a proprietary interface.

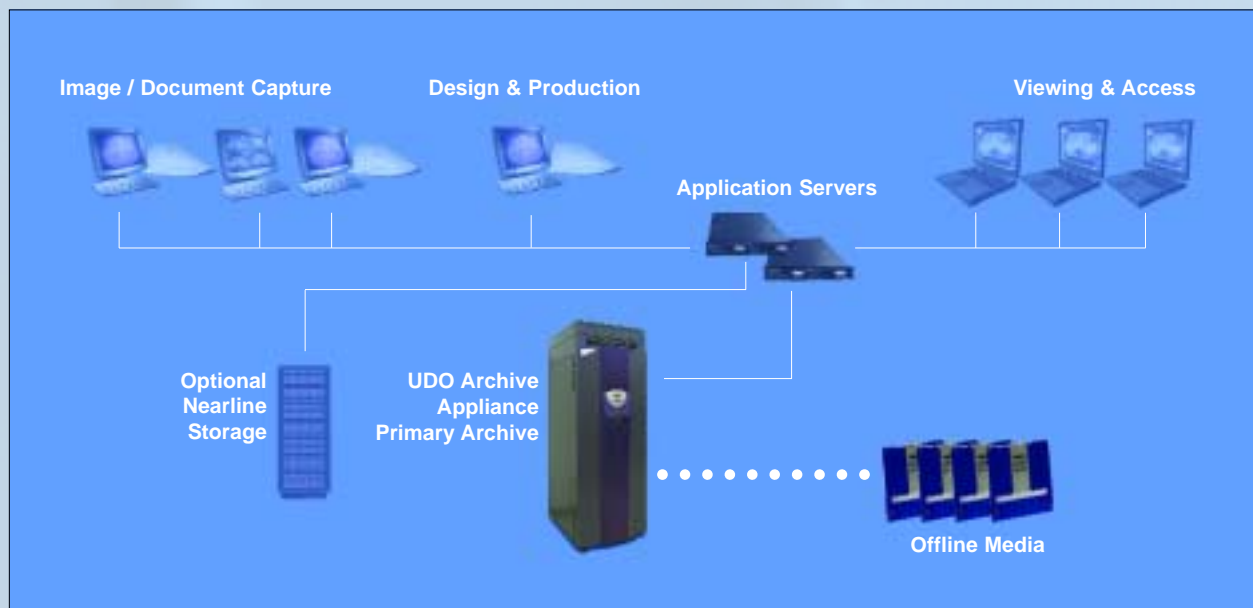
Behind the NAS server is a RAID system that acts as a performance cache for the archive. Records sent to the archive are cached on the first tier RAID and immediately committed to second tier UDO for long-term retention. Records read from the archive are also cached so the most frequently used documents are always available for rapid access. Since UDO is a very robust removable media, it enables a third tier of off-line management. Older media can be removed from the UDO Archive Appliance to make room for newer documents. Records can also be duplicated and stored in a safe location as part of a disaster recovery strategy.

By leveraging the strengths of different storage technologies, a tiered storage strategy affords distinct advantages over a monolithic, single tier approach. The UDO Archive Appliance provides excellent performance and unmatched record longevity and authenticity in a cost-effective solution.

Tiered Storage Architecture



Standard UDO Archive Appliance Deployment



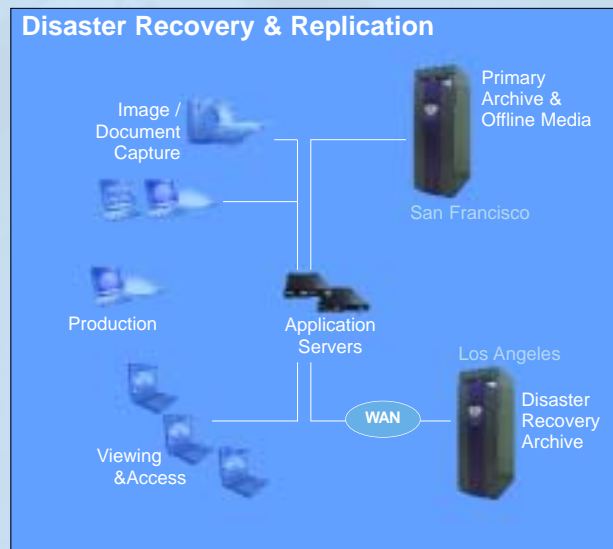
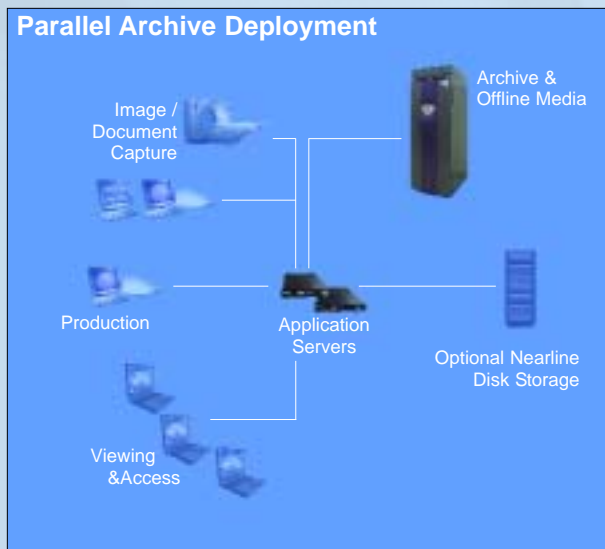
key features	business benefits
Unmatched Media Longevity	Reduced migration frequency and media maintenance
Compliant Record Authenticity	Write Once UDO meets the highest regulatory standard for authenticity
High Performance RAID cache	Fast access to archived data
Network Attached Interface	Simple installation and rapid deployment
CIFS and NFS Support	Operates in heterogeneous Windows and Unix environment
Low Total Cost of Ownership	Dramatically less expensive than single tier disk based archives

Deployment & Operation

The UDO Archive Appliance is quickly and easily deployed with a myriad of certified applications, including medical and document imaging, electronic content management and email archiving. These applications control the workflow as data is written to and accessed from the archive. Since the exact implementation can vary greatly between organizations, the flexibility of the UDO Archive Appliance is key to supporting different deployment configurations.

The UDO Archive Appliance is deployed most commonly as the primary archive for image and document capture applications, but can also be used in parallel with near-line RAID for those companies that require additional data redundancy. Host applications with file replication capabilities can install two UDO Archive Appliances as part of a disaster recovery strategy that protects against site and network failure.

Applications can also take advantage of other UDO Archive Appliance features such as record duplication and Off-line Media Management to expand the archive capacity and to provide a low cost off-site disaster recovery strategy.



Scalable Design

Recognizing the rapid growth of archive data, the UDO Archive Appliance offers field upgrade options to increase system capacity. For transaction intensive environments, the RAID cache can be expanded to 2TB, and the archive capacity can be increased up to 19TB through the addition of a second UDO library. The UDO Archive Appliance can also be easily upgraded to support higher capacity, future generation, UDO technology without major expense, system disruption or data migration.



UDO - Ultra Density Optical

Plasmon's UDO technology is recognized as a storage industry standard for professional archives and is part of the product portfolio for leading technology companies including **Hewlett Packard®**, **IBM®**, **Dell®** and **XEROX®**. UDO has been installed by thousands of corporations and government agencies worldwide because of its unique archival storage attributes.

As a non-magnetic technology, UDO media provides a level of physical longevity that cannot be matched by magnetic disk or tape storage. With media life greater than 50 years, UDO requires no active media maintenance and it dramatically reduces the frequency of data migration.

UDO Write Once technology prevents data from being altered or rewritten at a physical level. Far superior than Write Once "emulation" techniques used by rewritable disk and tape products, UDO Write Once media is the storage technology of choice when absolute data authenticity is required.

As part of the 20 year legacy of professional 5.25 inch optical storage, 30GB UDO is just one step in the on-going roadmap that has a proven track record for long-term product support. New generations of UDO will carry on this tradition by providing increased capacities to 60GB and 120GB while remaining backward compatible to maximize data life and minimize technology disruption.

Plasmon

Founded in 1985, Plasmon has developed a global reputation for state-of-the-art optical technology and has emerged as a leader in the archival storage industry. Thousands of organizations around the world depend on Plasmon solutions to archive important medical, legal, financial, engineering, creative and other mission-critical knowledge resources.



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AA OVERVIEW - 2/06

