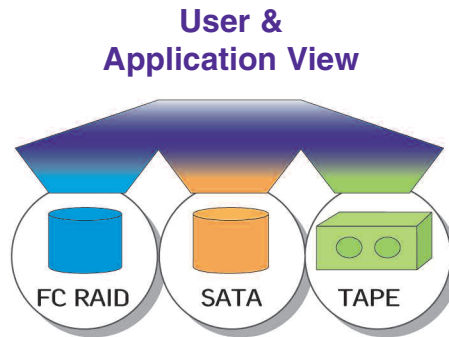


Solutions Brief

SGI® InfiniteStorage Solutions



SGI InfiniteStorage DLM Solutions virtualize storage assets, automatically managing data by user policies to deliver near-infinite easy to manage, lower cost capacity

Data Lifecycle Management

In today's busy computing environments, keeping up with the demands of rapid storage growth is an increasing challenge. The amount of data retained in data-intensive environments is doubling every 6 to 18 months, putting tremendous strain on traditional storage infrastructures. Reducing the cost and complexity of retaining and managing growing volumes of data while delivering uninterrupted access accountability is becoming a number one priority.

SGI customers are increasingly turning to SGI® data lifecycle management (DLM) solutions to help meet these objectives. A robust DLM solution can dramatically decrease storage infrastructure costs while streamlining management of and access to vast quantities of data. SGI DLM solutions provide exceptional data integrity, standards-defined data accountability, and customizable data access

profiles to help you ensure regulatory compliance, raise productivity and data integrity while lowering overall costs.

The Information Management Dilemma

All organizations engage in information management. For most, it is a tedious manual process in which administrators decide which data to keep online and which data to archive. This method is manpower intensive, expensive, and prone to errors that may lead to data corruption and data loss. The long delays that result due to manually restoring archived data can be a serious drain on productivity. As a result, most organizations maintain a larger than necessary pool of online storage to decrease the number of times archived data must be restored. Either way, the price tag is a large one.

Today, many vendors are promising information lifecycle management (ILM) solutions that will fully automate the process of classifying each file and managing it from cradle to grave to ensure appropriate storage and protection. As of yet, no defined standards exist and no single product can manage the entire process. However, SGI DLM solutions deliver the core benefits of ILM today. Significantly improving the management of large volumes of data, SGI DLM solutions ensure that files remain accessible while storing them on appropriate media with appropriate levels of data protection.

The Benefits of Automated DLM Solutions from SGI

SGI DLM solutions take the guesswork out of data management by automatically and transparently moving data from primary disk to secondary disk, tape or



Data Lifecycle Management

other storage device according to your criteria, ensuring that data is always stored on the most appropriate and cost-effective media. Data is recalled to primary storage immediately on first access without the need for user or administrator intervention. SGI DLM solutions virtualize your storage assets, creating a scalable storage pool that is transparent to your users and applications. This fully-automated, tiered approach to data storage adapts automatically to changing usage patterns to ensure data is always accessible and your users are always productive while greatly simplifying storage management tasks for busy administrators and dramatically reducing the cost of your storage infrastructure.

Data Remains Online and Accessible for Higher Productivity

With archiving solutions, accessing offline data often requires users or administrators to manually locate the needed tapes and restore data to disk. SGI DLM solutions ensure that data remains accessible without user or administrator intervention. Users never have to know where their data is to access it.

Industry-Leading Scalability Ensures Investment Protection

Only SGI DLM solutions offer the scalability to tackle the challenges of today's most data-intensive environments. SGI customers are already using SGI DLM to manage hundreds of terabytes and even petabytes of storage at a fraction of the cost of disk-only solutions. Busy sites move as much as 3TB of data per day between primary and secondary storage with no administrator intervention and no loss of user or administrator productivity. SGI DLM solutions create a virtually infinite storage pool, ensuring that your investment today continues to scale with your needs into the future.

Virtualization Reduces Total Cost of Ownership

With SGI DLM solutions, your storage infrastructure grows through the addition of less expensive SATA disk storage, tape or other media, so the total cost of deploying terabytes of additional storage is substantially reduced. Since many of the most tedious and time-consuming data management tasks are automated, your administration staff is more efficient and free to focus on other tasks allowing you to manage storage with fewer people and keep headcount under control.

Automation Minimizes Risk of Operator Error

An overburdened administrative staff managing a huge storage pool by hand and trying to cope with massive data growth is a recipe for disaster. SGI DLM solutions automate the most difficult and time-consuming tasks and flexibly adapt to new storage requirements to ensure storage success while reducing the risk of error and data loss.

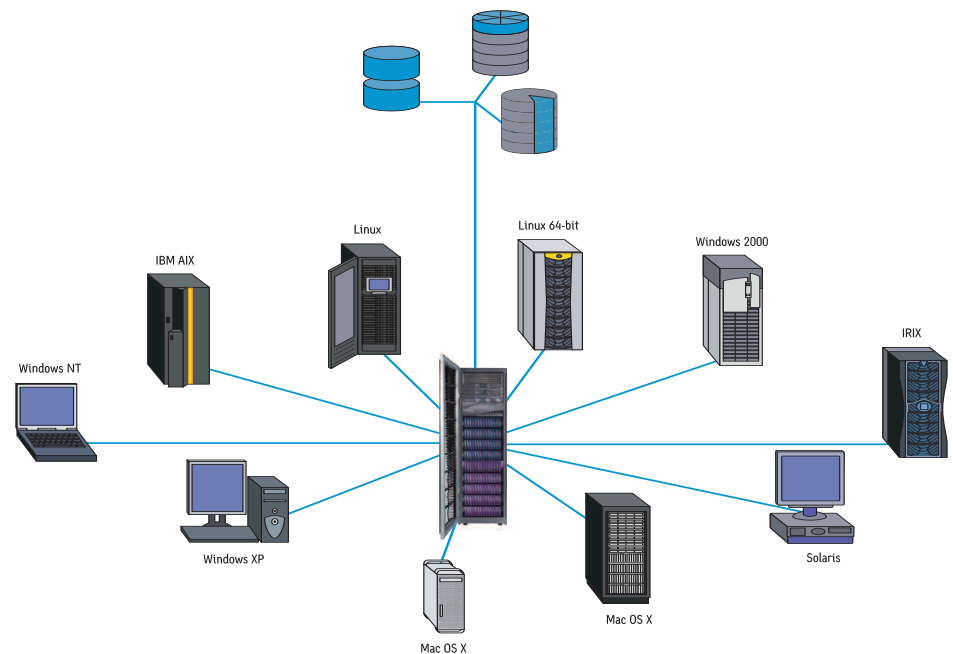
Integration with InfiniteStorage Solutions for Intelligent Consolidation and Data Protection Delivers Additional Functionality

• Intelligent Consolidation

SGI DLM solutions fully integrate with all of SGI's storage solutions including innovative network attached storage (NAS) and storage area network (SAN) solutions that make the benefits of DLM accessible across your entire organization. By combining DLM with the SGI® InfiniteStorage Shared Filesystem CXFS™ all your servers – IRIX®, Linux®, AIX®, Solaris™, Windows® and others – gain shared high-speed access to SAN storage backed by the full benefits of DLM.

• World Record Performance Backup and Restore¹

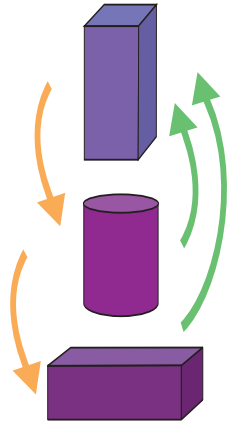
By combining SGI DLM with SGI Data Protection solutions, you can create an efficient backup architecture. Since DLM provides complete data protection for migrated files and reduces the size of



Implement DLM in a SAN - SGI InfiniteStorage Shared Filesystem CXFS extends DLM services to all SAN systems transparently, without network copies for all major operating systems

¹ http://www.sgi.com/company_info/newsroom/press_releases/2003/july/scalable.html

Data Lifecycle Management



SGI DLM solutions migrate data to the most cost-appropriate media based on your criteria - delivering lower cost of capacity and management without limiting data access

the working set on primary storage, the size of backups and the time required to perform them is dramatically reduced.

• Application High-Availability

Add application failover to the inherent reliability of DLM solutions for complete environmental integrity in the case of system, application, or connectivity failure. SGI InfiniteStorage high-availability clustering software (FailSafe® and SGI® InfiniteStorage Cluster Manager for Linux®) automatically fail over applications and user connections on failure or manually, to allow for uninterrupted service during routine maintenance.

SGI Products for DLM

SGI® InfiniteStorage Data Migration Facility DMF

The SGI InfiniteStorage Data Migration Facility DMF is the core software offering for SGI DLM solutions. DMF transparently migrates data as needed between high-speed disk, secondary disk storage and tape libraries or other nearline media. With DMF, a nearly infinite data store can be cost effectively maintained and managed without sacrificing accessibility.

SGI® InfiniteStorage Data Lifecycle Management Server

The SGI InfiniteStorage Data Lifecycle Management Server (DLM Server) combines all the elements of a successful DLM solution in an integrated and easy-to-deploy package to further reduce data retention cost and complexity. The DLM server can be purchased for deployment in either NAS or SAN environments. Extend DLM services seamlessly to heterogeneous systems' data with CXFS.

Learn More

- To find out more about SGI DLM solutions, visit our website at <http://www.sgi.com/storage>
- To find out more about how data-intensive environments are using SGI InfiniteStorage DLM solutions to lower cost, manage risk and improve productivity see: <http://www.sgi.com/products/storage/success.html>
- To locate your local SGI sales office, visit: <http://www.sgi.com/sales>



SGI InfiniteStorage DLM Server = a simple and complete way to implement DLM services



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