SGI® InfiniteStorage Solutions for Data-Intensive Environments

Scalable, High-Performance Storage Solutions for Consolidation, Data Access and Sharing, Data Lifecycle Management and Data Protection

Features

- Intelligent storage consolidation
- Instant heterogeneous data sharing
- Robust data lifecycle management
- Complete data protection
- Open storage and systems support
- Support for IRIX, Linux, Solaris, Windows, AIX, Mac OS and more

SGI® InfiniteStorage is a complete line of scalable, high-performance storage solutions built specifically for data-intensive environments. With this approach SGI is uniquely positioned to resolve even the toughest workflow and data management bottlenecks. Available on the SGI® Origin® and Altix® family of servers, InfiniteStorage solutions also support Solaris™, AIX®, Windows®, 64 and 32-bit Linux®, and Mac OS® X systems and other UNIX platforms.

SGI InfiniteStorage solutions are designed to:

- Allow data to be transparently shared everywhere without replication
- Scale with your business and application no matter how fast or how large
- Manage the changing value of data over time without limiting user access

With differentiated technologies in each of these areas SGI's approach provides consolidation for lower total cost of ownership (TCO), data access and sharing for higher productivity and return on investment (ROI), data lifecycle management for cost reduction and compliance as well as data protection for peace of mind.

The InfiniteStorage open platform approach means that these solutions scale across storage architectures and operating systems; the SGI focus on performance and scalability means these solutions scale from megabytes to exabytes, from small to large systems and numbers of systems, and provides the highest possible performance at every level.

Storage Consolidation—Data Access and Sharing

Storage consolidation benefits derive mainly from the reduction in TCO provided by purchasing, deploying, provisioning and administrating storage centrally–removing the high cost and low utilization of the distributed storage model. Most consolidation offerings however, retain the bottlenecks of network data access protocols built for environments of a decade ago. SGI's approach is different—InfiniteStorage consolidation via Network Attached Storage (NAS) and Storage Area Networks (SAN) minimize or completely eliminate the bottlenecks inherent in most NAS and SAN offerings.

SGI® InfiniteStorage SAN 2000 and 3000

SGI SAN solutions include 100% of the elements needed to deliver on the ROI and TCO promises of SANs. The SAN 2000 and 3000 include complete, state-of-the-art SAN infrastructure: fabric, storage, systems, and high availability—with no-limits scalability. This means no guessing and no forklift upgrades. Instant data sharing with SGI® InfiniteStorage Shared Filesystem CXFS™ means increased productivity, reduced bottlenecks and no unnecessary data copies to store and manage. CXFS supports every major operating system allowing you to optimize your current environment or transition it over time without data conversion. CXFS is available on: SGI® IRIX®, Sun™ Solaris™, Windows NT®, Windows® 2000 and Windows® XP, 32-bit Linux® Red Hat®, IBM® AIX®, 64-bit Linux for SGI Altix, with Mac OS X and more to come. The SAN 2000 and 3000 also include the most advanced storage resource management available today so there are no extra or hidden charges in realizing the full capabilities of your SAN. Both models integrate into your current environment—optimizing performance between core systems while providing robust file serving to non-core systems leaving their infrastructure undisturbed.

SGI® InfiniteStorage NAS 2000 and 3000

SGI InfiniteStorage NAS solutions provide high-performance NAS services for the most demanding engineering and commercial environments.

SGI® InfiniteStorage Solutions for Data-Intensive Environments

Centralizing critical data and allowing for efficient data management, the SGI InfiniteStorage NAS 2000 and 3000 provide universal data access for heterogeneous environments without sacrificing performance. Available in a wide range of configurations, SGI NAS solutions easily connect to an Ethernet network to serve UNIX®, Windows®, and Apple® clients.

Unlike other NAS offerings, the NAS 2000 and 3000 provide virtually unlimited scalability in all NAS dimensions–performance, connectivity and capacity–without forklift upgrades. Built on the foundation of scalable and high-bandwidth NUMAflex™ architecture and the SGI InfiniteStorage filesystem, XFS®, the NAS 2000 and 3000 can scale from 1TB to over 100TB and to hundreds of users in a standard configuration. Moreover, SGI InfiniteStorage NAS 2000 and 3000 can seamlessly be converted to an SGI® InfiniteStorage SAN 2000 and SGI InfiniteStorage SAN 3000 system respectively and serve as a gateway for SANs, providing even greater performance while eliminating redundant SAN and NAS storage pools.

Additional, pre-configured options turn the SGI SAN or NAS 2000 or 3000 into your complete data access, management and protection environment including application high availability, backup and data lifecycle management.

SAN and NAS Gateways

The SGI SAN and NAS 2000 and 3000 can also be ordered as gateways—without pre-configured storage included. Because SGI InfiniteStorage solutions are open, the SAN and NAS Gateways can deliver all the features and functionality of the SAN and NAS 2000 and 3000 while protecting your investment in your current storage systems.

Data Protection and Data Lifecycle Management

No storage offering can be said to be complete without significant safeguards for integrity and availability and the ability to manage access over time in an efficient and cost-effective manner. SGI InfiniteStorage solutions provide the highest data integrity and data access protection available, while giving you complete, automated data virtualization across all levels of storage media.

Availability can be addressed at every level of hardware and software within the InfiniteStorage Product Line. With highly available components, complete component redundancy, intelligent data pathing and application and filesystem fail-over, you choose the right level of availability to suit your requirements. As the world leader in backup and restore performance, SGI can address your most demanding requirements, regardless of your backup window or your disaster recovery needs.

Data Lifecycle Management is the definition and implementation of an environment's policies for the retention of data over time. Some categories of data need to be kept over long periods of time, but are not frequently used, or may not be needed instantly when accessed. The SGI® InfiniteStorage Data Lifecycle Management Server (DLM Server) completely automates data lifecycle management policies, automatically migrating data among storage assets with different cost and performance characteristics to maximize utilization and minimize investment in storage hardware.

High Performance Storage Arrays, Tape Libraries and Storage Network Devices

SGI offers a full line of state of the art, fully 2 Gigabit disk storage products to meet a broad range of needs.

- **SGI® InfiniteStorage TP9700**—SGI's flagship RAID product, the TP9700 offers the ultimate in availability, features and performance in the industry's first 4Gbit RAID array; the TP9700 is available with choice of Fibre Channel and Serial ATA drives
- **SGI® InfiniteStorage TP9500 & TP9500S**—The TP9500 offers the ultimate in availability, features and performance in a 2Gbit RAID array; TP9500 is based on Fibre Channel drives; TP9500S on Serial ATA
- **SGI® InfiniteStorage TP9300 & TP9300S**—For the ultimate in flexibility, the TP9300 RAID is priced for small and medium environments, but can accommodate mixed Fibre and SATA media and is upgradable to the TP9500 for investment protection in the face of changes in requirements. TP9300 is based on Fibre Channel drives; TP9300S on Serial ATA
- **SGI® InfiniteStorage TP9100**—The TP9100 can be deployed as JBOD or RAID, value priced for small and medium installations that need the capabilities of RAID and future growth accommodation
- **SGI® InfiniteStorage TP900**—TP900 JBOD highlights include high performance, small package and low cost; ideally suited for single stream applications
- **Ciprico® TALONTM (Ruggedized)**—As part of a complete InfiniteStorage solution for customers who must deploy or transport storage media outside the machine room
- **StorageTek® Tape Libraries**—SGI offers a full line of StorageTek tape libraries as part of our InfiniteStorage solutions for data lifecycle management, backup, disaster recovery, and archiving; StorageTek libraries support a variety of tape media choices and models available with capacities ranging from less than 4TB to over 1200TB, making it easy to choose a library to meet your exact requirements
- **Brocade® Fibre Channel Switches**—The industry leading Brocade® SilkWorm® family of fabric switches connects servers and storage devices throughout Fibre Channel Storage Area Network fabrics; these high-speed, robust storage networks enable organizations to access and share data in a high-performance, manageable and scalable manner
- **A complete selection of hubs, adapters and other infrastructure products**—Whether you are deploying a simple direct-attached solution, NAS, or a SAN, SGI offers all the components you need to tailor your storage solution no matter how large or how small

For more information in the SGI InfiniteStorage Product Line, please visit us on the web at *www.sgi.com/storage*

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