

VIRTUALIZED STORAGE MIGRATION SOLUTION



Virtualized Storage Migration Solution

Heterogeneous, non-disruptive data migration reduces storage costs and increases flexibility

Virtualized Storage Migration Solution Advantages

- Enables non-disruptive data migration in heterogeneous environments for investment protection
- Provides easy way to allocate and manage disparate storage resources
- Delivered by experienced SGI consultants

Business Benefits

- Improve flexibility to align technology with business objectives
- Improve resource utilization
- Ensure business continuity
- Reduce cost through improved resource management

Technology Benefits

- Meet strategic goals on technology refresh
- Allocate data to storage on value basis
- Protect data before, during, and after migration
- Reduce risk in migration process
- Reduce complexity and simplify operations

Organizations grappling with exponential data growth recognize that having a data migration strategy is a necessity. But data migration can present a number of challenges - disruption of operations, application availability during implementation, inability to rollback and recover from a migration until satisfied that the migration is accomplished, risk of data loss and integrity - and the complexity of dealing with multiple vendor specific tools to achieve migration.

With its Virtualized Storage Migration Solution, SGI addresses those problems by helping enterprises manage diverse storage environments. The Virtualized Storage Migration Solution makes it possible to virtualize and apply advanced data services to disparate storage resources without locking the customer into a particular vendor's storage platform. As a result, the solution offers increased flexibility and better alignment with business objectives. Additionally, it provides improved utilization and reduced costs. Perhaps most significantly, the solution does all this while minimizing the risks typically associated with moving data between platforms.

At the heart of the SGI Virtualized Storage Migration Solution is an LSI StoreAge™ SAN appliance that provides centralized virtual volume management and storage pooling across entire heterogeneous SAN domains. The fabric-based, fully redundant appliance consists of control path modules (CPM) and data path modules (DPM) that run the StoreAge Storage Virtualization

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Key Benefits

- **Flexibility to choose the storage device that best aligns with an organization's needs**

- Provides common way of allocating and managing disparate storage resources. The SGI Virtualized Storage Migration Solution implements any-to-any data migration in a heterogeneous SAN environment, making it possible for storage resources to be aggregated and used to maximum advantage.

- **Enables non-disruptive data migration**

- Customers can avoid the cost and disruptions of lost access to applications and data because they can migrate data to any device at any location while production applications remain online.
- Simplifies technology refresh. As organizations upgrade or expand elements in the enterprise, data migration is made easier via a common tool set that delivers copy, migration, replication and mirroring to the client without having to replace the existing storage infrastructure. The solution offers customers seamless and transparent migration from old to new technology, making it possible to accelerate the introduction of new storage devices.

- **Eliminates storage vendor lock in**

- Because the SGI Virtualized Storage Migration Solution enables data migration in a heterogeneous environment, organizations are not limited to a single vendor. Instead, they are free to choose the storage devices that best suit their needs.

- **Reduces overall storage costs with enhanced provisioning and utilization**

- Provides capability to allocate data to storage on a value basis. Companies can place high value data on the most responsive storage and lower value data on cost-effective storage systems.
- Allows organizations to migrate incrementally.
- Improves utilization, saving on storage footprint and energy.
- Just-in-time provisioning centralized volume management and storage pooling saves on overall storage costs, energy and space.

- **Reduces complexity and simplifies operations by consolidating storage services at the storage network layer**

- Allows companies to take advantage of advanced data services at the storage network layer providing services between any qualified server and storage platform.

- **Backed by SGI**

- Hardware, software and services in this comprehensive storage volume management and migration solution are delivered, implemented and serviced by Professional Services at SGI to optimize resources and make the most of an organization's investment.

- **Provides the foundation for additional advanced data services such as**

- Rapid Application Recovery
- Application Test and Deployment
- Cost Effective Disaster Recovery

Management (StoreAge SVM™) software and aggregate available capacity into centrally managed storage pools. It allocates appropriately sized volumes to servers, and dynamically and granularly allocates additional capacity to servers on a just-in-time basis.

Based on powerful Dual Core Intel® Xeon® Processors providing great performance with energy efficiency, the StoreAge SVM features storage capacity and storage performance pooling across the entire SAN storage domain. Uniquely designed to virtualize storage off the data path, the StoreAge SVM does not impose any performance penalty and delivers a highly scalable and highly available SAN infrastructure, at levels not found with alternative approaches.

The StoreAge SVM provides centralized management for distributed enterprise storage, significantly reducing the Total Cost of Ownership. It is an ideal platform for SAN-aware Storage Applications such as Remote Mirroring, Snapshot and others and a key enabler for business continuity strategies.



Virtualized Storage Migration Solution



A Proven Methodology

Eliminating the complexity and risk of a traditional data migration approach, SGI Virtualized Storage Migration Solution is implemented with a consistent, reliable and repeatable methodology that is proven and simple: Plan, Migrate, and Validate.

Detailed Planning

While the ultimate goal is to migrate data from one platform to another, upfront assessment and planning ensures successful data migration.

In-depth planning not only helps shorten the duration of the project but also reduces business risk. During the planning phase the SGI Data Storage Specialist collaborates with the organization to understand its business, technical and operational needs. Key activities include environmental assessment, architectural design and defining the migration plan that suits the company's particular environment, data management strategy and business goals.

A back-out strategy is also devised in this phase to help minimize risk during the implementation.

Streamlined Migration

Once an organization approves the plans, the SGI specialist is ready to progress with implementation of the migration plan.

After installation and setup of the migration environment, the team executes the migration process. The migration phase is complete when all targeted data has been successfully migrated to the new storage and verified.

Next, the source devices can be decommissioned or repurposed.

Validation for Assurance

In the post-migration phase, the SGI Data Migration Specialist conducts joint testing of the new environment involving key stakeholders as database and system administrators, business owners and security and compliance groups.

When this is complete, the SGI Specialist provides the organization with key statistics of the new data and storage environment. Additionally the Specialist provides training to prepare the organization to maintain its new environment and to take on future data migration projects with confidence.

SGI Virtualized Storage Migration Solution is a critical building block for state-of-art data storage solutions.





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