



Managed Snapshot Services (MSS)

Embedded Data Services

MSS delivers powerful benefits for IT administrators including:

- **Maximize limited backup windows with non-disruptive backups that ensure data availability, require fractional space and enable a zero-backup window full performance data protection**
- **Improve accuracy of application testing by easily verifying functionality, reliability and accuracy of production modifications -- without impacting production data**
- **Deliver near-instantaneous and non-disruptive point-in-time copies of data for business continuity**

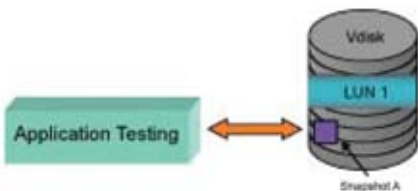
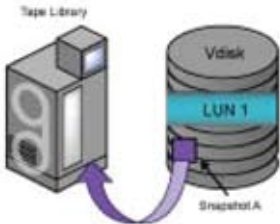
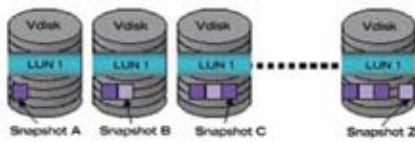
Storageflex's Managed Snapshot Services (MSS) provides quick and easy virtual duplication of your critical data – at your fingertips when you need it. Using MSS, you can maximize the limited backup windows available for today's 24x7 business applications with non-disruptive snapshots that ensure data availability, require fractional space (typically 10% to 20% compared to a full copy) and enable a zero-backup window full performance data protection.

With MSS, businesses can easily verify functionality, reliability and accuracy of modifications to production – without impacting production data – by instantly creating writeable test databases that require little space and serve to improve accuracy of application testing. Storageflex's MSS feature can also provide a solution by making the snapshot image immediately available for situations where production data has been accidentally corrupted.

MSS is especially useful for applications requiring near-instantaneous point-in-time virtual copies of the data. MSS offers users the ability to access their data from any point-in-time without having to stop their daily activities for routine tasks such as system backups.

MSS saves businesses time and money

Business Continuity / Data Backup - Today's applications must be available 24 hours a day, seven days a week offering unlimited access to critical data with a limited window for backup operations. With MSS, and in an instant, a snapshot copy is available for your backup operation with no disruption to the user's application -- ensuring data availability while maintaining a high degree of business continuance.



MSS delivers needed solutions for business continuity including non-disruptive backup, time-initiated versioning, easy production data/software testing and more.

Software Testing / Production Data - In order to verify functionality, reliability and accuracy after modifications to production applications, rigorous testing is needed. To accomplish this standard practice without impacting production data, test databases are required – and creating a MSS snapshot copy of production data is the right solution. MSS delivers an instantly available, writeable version of the production database (requiring very small disk space) for testing that brings two immediate benefits: accuracy of application testing is improved and administrator productivity is enhanced by creating logical copies of production data quickly and efficiently.

Operational Fallback / Time-Initiated Versioning - Occasionally, accidental corruption of production data can happen and restoring to a prior point in time is the typical method of recovery while data corruption causes are being determined and rectified. Insuring that accurate fallback to production data is immediately available can be problematic if traditional methods of reloading from prior day's backup tape is the only method available.

The better solution is to use MSS time-initiated snapshots of production data. With MSS, IT administrators need only to re-assign the application to the last known good copy and re-start. Multiple users can also create their own snapshot copies of databases with MSS as often as they like without requiring duplicate physical storage... up to 504 per system!

Available on Storageflex™ Fi240 Storage Systems

Storageflex's MSS Manager is one of the advanced, enterprise-level data services features available to IT administrators with all Storageflex™ storage systems. Storageflex™ offers a fully redundant Fibre Channel solutions that deliver investment protection, cost-effectiveness and reliability for businesses that need a robust solution with the availability, manageability, data integrity and enterprise-level functionality required in today's data centers. Storageflex™ combines proven enterprise-level features with cost-effective Serial ATA (SATA) disk drives to deliver efficient storage growth, scalability, data protection, storage automation and plug and play simplicity for near line applications – at a dramatically low price point.

