

Using FLM to manage the lifecycle of files can result in:

- Up to **50%** reduction in tape usage and backup window
- More than **2X** the volume capacity as inactive data is constantly and automatically moved to secondary storage
- Up to **50%** reduction in storage hardware acquisition costs

Highlights

- **Facilitates the alignment of data storage policies** with business objectives so IT can manage data growth proactively rather than reactively, effectively controlling storage TCO
- **Minimizes storage administration** with a variety of reusable data management policies that can be executed automatically
- **Enables implementation of tiered storage architectures** by placing data on different types of storage devices based on the relative value of data to the organization
- **Balances capacity utilization** to offset increasing demands placed on higher-cost storage and make better use of cheaper storage
- **Eliminates backup redundancy** through appropriate data classification and placement so that IT can match data's protection with its relative value
- **Creates an audit trail** by monitoring and reporting on key data movement and access patterns

File Lifecycle Manager®

Comprehensive File Lifecycle Management



Data Management Challenges

Data growth takes place unevenly on storage systems across the enterprise. Over time, this imbalanced growth in storage results in both increased hardware expenditures due to the proliferation of storage devices and acute management challenges for IT administrators. As a result, storage consumed on a few higher-cost, higher-performance file servers far exceeds the collective storage on the majority of distributed file servers. This imbalance causes the network's overall capacity utilization to remain low, while a few higher-performance storage devices become overburdened. Enterprises can reduce their total cost of storage ownership by actively managing data throughout its lifecycle (creation to disposal), to align storage policies with business priorities. IT organizations require data management solutions that provide policies and filters that automatically classify and move infrequently accessed data to cheaper storage systems, effectively freeing up space on higher-cost, higher-performance storage systems to host more valuable data.

Solution: File Lifecycle Manager

File Lifecycle Manager (FLM) is a policy-based data management solution that manages the lifecycle of files between primary (higher-cost) NetApp storage systems (CIFS and NFS) and secondary (lower-cost) storage systems including NetApp and non-NetApp devices. FLM allows administrators to analyze, classify, move and organize file data using policies that reflect business objectives. FLM moves files based on their attributes and access patterns, while maintaining users' access to the moved files. By deploying FLM, enterprises can achieve significant reductions in storage TCO through both decreased requirements for primary storage and reduced costs of backup and storage administration. FLM reduces the requirement for primary storage by allowing administrators to make more efficient use of lower-cost secondary storage and enhance enterprise storage capacity utilization. In addition, FLM reduces the costs associated with backup, including tape hardware, backup software and management costs, as less important data gets transferred to devices hosting data that does not need the same level of data protection as the data hosted on primary storage devices.

Lifecycle Management Policies

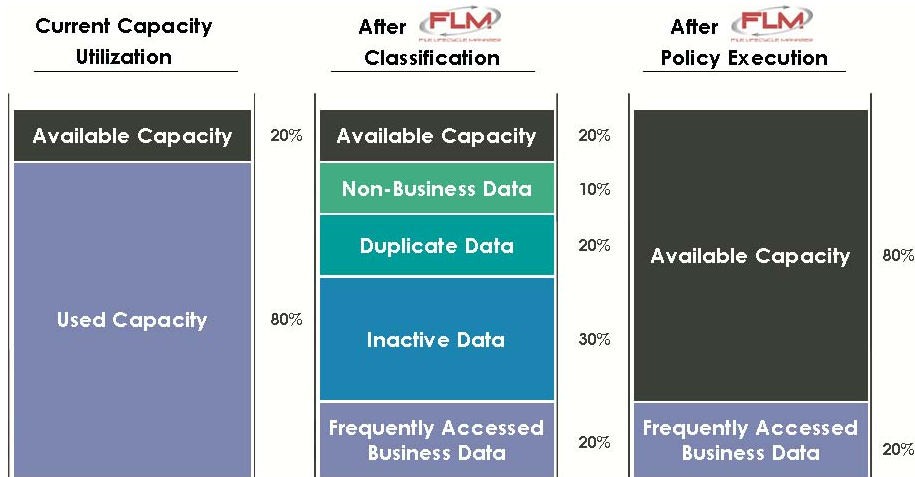
- Adaptive Archival Algorithms™:** Enables organizations to exclude certain restored files from future migrations by excluding thrashed files.
- Archival Storage Manager™:** Enables organizations to define multiple offline stores as a pool, eliminating the need to setup large volumes as secondary stores (to prevent running out of space) or track capacity utilization per offline store.
- Blocking:** Prevents unwanted file types from being stored on the primary storage (example: MP3, JPEG). Blocking can be implemented as granularly as the share-level.
- Classification:** Analyzes and classifies file data based on one or multiple parameters including file location, file type, file name, file age, file size, file attributes and volume utilization.
- Migration Automation:** Periodically migrates files that match the defined criteria and scope to multiple secondary storage devices. Allows administrators to control duration of migration and network bandwidth usage.
- Primary Space Optimizer™:** Automatically re-migrates a restored file back to the secondary store, thereby optimizing space on the primary storage.
- Restore Control:** Minimizes any potentially negative impact on storage capacity utilization and network bandwidth resulting from inadvertent data restores triggered by users or applications.
- Retention/Deletion:** Deletes files matching one or more pre-set parameters. Enables regulatory compliance by enabling deletion of files reaching long-term retention limits.
- Simulated Migration:** Performs detailed 'what-if' analyses and publishes the results in report format. Enables capacity planning on primary and secondary storage, as well as network bandwidth-utilization planning.



Features & Benefits

- Flexible and Granular**
 - Provides multiple filters for granular data classification including file name, type, size, age, attributes and volume utilization
 - Allows for bandwidth control and duration-based scheduling
- Intelligent and Powerful**
 - Enables simulation runs for detailed capacity planning and understanding data composition and data distribution
 - Enables many-to-one and one-to-many migration configurations
- Policy-Based and Automated**
 - Eliminates efforts required with manual classification, migration and deletion
 - Provides stand-alone and integrated policies to affect a variety of lifecycle management tasks
- Non-Disruptive and Transparent**
 - Users continue to see and access files through the primary filer
 - Data creation and data protection applications remain unaware of file migration
- Reliable and Scalable**
 - Scales linearly to efficiently handle millions of inactive files
 - Highly redundant architecture with multiple availability mechanisms
- Simple and Economical**
 - Agentless installation requiring less than 15 minutes
 - Easy to operate and simple to manage through a web-based interface
 - Short payback period drives high ROI

Impact of File Lifecycle Manager in the Enterprise



- FLM Server Requirements**
- Microsoft® Windows® 2000 SP 3
 - Microsoft Internet Information Services (IIS) 5
 - Microsoft Internet Explorer 5.5 or later
 - Minimum of 120 MB of disk space

- Other Requirements**
- Primary storage system, or source of data must be a NetApp filer
 - The NetApp filer requires Data ONTAP 7.0.1 or later
 - Secondary storage can be any CIFS accessible device

Services and Support
Our support team is available 24/7 to keep your team on top and to increase your competitive advantage.

About NuView
NuView, Inc., headquartered in Houston, TX, is a leading provider of enterprise data management solutions that simplify the management of distributed file storage. In partnership with some of the world's leading companies, NuView is delivering enterprise software that makes it easier for companies to find and manage the information they need while reducing the cost and complexity of networked data management. Information about NuView's solutions can be found at www.nuview.com.



StorageX® is the industry's leading enterprise data management solution. It is an integrated solution that logically aggregates distributed file storage. It also provides administrators with policies that automate data management functions, such as: consolidated network management; non-disruptive data migration and consolidation; cost-effective business continuity; storage optimization; data lifecycle management; remote site/branch office data management; as well as data classification and reporting. More importantly, it provides administrators the ability to perform the above tasks without causing downtime to users. Users also benefit from simplified access to their data as StorageX creates a unified, logical view of data distributed across heterogeneous storage platforms.



File Lifecycle Manager® is a policy-based data management solution that manages the lifecycle of files between primary, premium storage devices and secondary, less costly storage devices. FLM allows administrators to analyze, classify, move and organize data using policies that reflect business objectives. Files can be moved automatically based on attributes such as type, size, age, last access time and volume utilization among others.



UNC Update™ provides administrators with the ability to automatically discover and update embedded UNC references, OLE Links and shortcuts in files after source data have been migrated. File types supported include Microsoft Word, PowerPoint and Excel, as well as text files.

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