File Dynamics

An expanded emphasis on data growth, automation, compliance, security, and protection are all contributing to an evolving definition of network data management. To meet the dynamic demands of today's organizations, OpenText offers File Dynamics—an identity- and target-driven policy approach to today's network data management challenges.

File Dynamics at a Glance

Automated File System Management

AD event-enacted or administrator-enacted management actions. Provisions storage, performs day-to-day data management tasks, and cleans up storage.

File Access Compliance

Identity-driven policies establish and enforce access permissions according to user role.

Security from Unauthorized Access

Security-based policies protect high-value targets from unauthorized access.

Data Protection

Secure, nearline storage archiving protects your most critical data. If files become corrupted from a ransomware attack, you can easily locate and recover non-corrupted versions.

With OpenText™ File Dynamics, you have the means to not only provision, manage, and dispose of user and group storage, but to secure high-value targets from unauthorized access and protect these high-value targets from data loss or data corruption as a result of ransomware.

Today's Network File System Management Challenges

When it comes to network data management, organizations today are facing a variety of challenges:

- **Data Growth.** Network data storage is growing at an unprecedented, exponential rate. With organizations now storing petabytes or even exabytes of unstructured data, most of these organizations don't know where to begin to manage all of it.

- **Time and Attention for Data Management.** In a typical workweek, new network storage areas need to be set up, permissions need to be established, files need to be moved, and old files need to be deleted or archived. The challenge with many IT departments is finding the time to do all of this.

- **Security and Compliance.** Most organizations are tasked with complying with organizational, industry, or government regulations specifying how data is secured from unauthorized access. The risk of noncompliance can have severe ramifications.

- **Data Protection.** As organizations deal with the increasingly devastating effects of ransomware, they are looking for ways to safeguard the integrity and availability of their critical data. Then, when an event takes place that either corrupts the data or disables access to it, they want the ability to recover the data and permissions quickly.

- **Data Location Remediation.** Organizations need the ability to migrate large data sets with the assurance that data structure and permissions will remain intact, as well as the ability to rectify file storage locations so that sensitive and high-value data remains secure.

Introducing File Dynamics

For the data management challenges identified above, along with many others, we developed File Dynamics. File Dynamics provides extensive services to address the expanding requirements of network data management. Identity-driven policies automate tasks that are traditionally done manually, resulting in cost savings and the assurance that tasks are being performed properly. Target-driven policies offer security from unauthorized access, data migration, cleanup, and protection from data corruption and downtime through nearline storage backup of high-value targets, enabling quick recovery of files and their associated permissions.

Today, the technology in File Dynamics manages the data of millions of users and

A greater emphasis on data management, along with its continued evolution, is the catalyst for the expanded data management services offered by OpenText. OpenText™ Storage Managerfor Active Directory has now been renamed to File Dynamics to reflect the expanded data management services available in the product today.

groups in hundreds of accounts across all industries.

Managing Data Growth

File Dynamics provides an extensive set of features that can help manage data growth:

- **Moving Files.** When you need to move files, such as when a server is nearing storage capacity, File Dynamics can automatically move the files to a new location and even load balance them across a set of servers.

- **Archiving Files.** When files have surpassed their relevancy but need to be maintained, you can easily migrate them off primary storage devices to archive storage devices.

- **Grooming Files.** File Dynamics lets you "groom" files from primary storage to secondary or archive storage areas according to file type, date last accessed, or other criterion.

- **Deleting Files.** Similar to grooming, you can delete non-relevant files, such as .TMP files, according to the criteria you specify.

Automating and Enacting Data Management Tasks

File Dynamics is the means for automating and enacting a variety of data management tasks:

- **Provisioning Storage.** This includes creating user home folders, group folders, profile paths, and RDS storage and profile paths, as well as associated access permissions.

- **Ongoing Data Management.** This includes managing user disk quota, home folder attributes, file grooming, folder migrations, and more.

- **Cleaning up Storage.** This includes disabling user access to files, archiving files, and deleting files.

Securing Files

Policies and reporting let you secure your network data access:

- **Setting Access Permissions.** You create user and collaborative policies with the exact access permissions you want.

- **Notifications.** Through Security Notification policies, be notified automatically when user access permissions to a folder or share have changed.

- **Establishing Access Boundaries.** Through Fencing policies, you can allow security to change dynamically within limits by restricting access to certain users and groups.

- **Lockdown Access Permissions.** Lockdown policies let you restrict access permissions on high-value targets to specific users and groups that are "locked down." If access permissions are mistakenly changed, the policy will change them back.

- **Compliance.** In a compliance audit, you can demonstrate how File Dynamics policies are restricting access to only authorized users.

- **Reporting.** Consistency Check options enable you to analyze your current permissions settings and indicate which ones will be changed in accordance with the permissions specified in your policies.

Protecting Files

Provides the ability to archive and quickly recover critical data that has become lost or corrupted:

- **Nearline Data Protection.** Epoch Data Protection policies enable you to maintain nearline restricted access archives of high-value target folders. When critical files become lost or corrupted and secured archived files need to be recovered, administrators known as "data owners" can do so quickly and easily.

- **Additional Protection for High-Value Targets.** In addition to your backup system, the Epoch Data Protection repository is one more repository for your critical data. Security analysts recommend a multi-tier approach to provide more reliability with backups—especially for your most critical files.

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