

Essentials

- Fully automated, policy-driven file data mobility and management for CIFS and NFS data
- Intuitive user interface; wizard driven process to manage data mobility, copying of security permissions and attributes
- API integration with NetApp Data ONTAP & EMC Isilon OneFS and VNX OE for File
- Three-phase copy process delivers a fast and consistent migration with minimal user disruption
- Supports file data migrations at both aggregate (NAS device/volume/qtree and tree quota) as well as granular (share-to-share and export-to-export) levels
- Proprietary algorithms determine optimal multi-threading for maximum copy performance
- Quality of Service (QOS) controls allows bandwidth throttling to preserve network resources for business activities during migration
- Migration Projects manage the entire migration workflow, from initial baseline copy, to incremental copies to keep data in sync, to the final cutover
- DFS namespaces management, including replication, HA and namespace updates during migrations
- No scripting or advanced skills required

Automated, Policy-Based File Data Mobility and Management

StorageX automates data mobility for migration, consolidation, and archiving of unstructured data in complex file storage environments.

The automated, policy-based approach to file storage management maximizes the value of data to business and minimizes risk, user downtime, cutover windows, and other disruptions related to file storage migrations, rebalancing, consolidations, and tech refreshes.

Data Movement

StorageX supports data mobility of both CIFS and NFS protocols from a single, unified console.

Phased Migrations

StorageX Phased Migration Policies provide a 3 phased approach to data migration, including initial copy, incremental copies and final synchronization.

The initial phase copies unlocked data in the background while preserving the original access path for users. Continuous incremental copies replicate new, previously locked, or recently modified files from the source to the destination. In the final synchronization or 'cutover' phase, StorageX blocks access to the source, performs a short final sync to copy any new files recently added or updated, and then shares the new destination with users. This phased, programmatic approach with clearly defined migration phases and processes increases predictability and reduces cutover windows and migration risks.

Phased Migration policies provide options to specify how to manage security settings and file attributes during the migration process.

Archival Migrations

StorageX Archival Migration policies identify folders that are candidates for migration to a lower-cost storage tier using criteria such as last accessed or modified date, file types, folder age, and folder size. StorageX can automatically migrate candidate files based on policies, or can simply identify candidates for eventual manual migration.

Migration Projects

StorageX Migration Projects allow movement of NAS devices with central control and management. Instead of migrating data at the share or export level, Migration Projects migrate data at a NAS device or volume level. Projects begin with a design phase that creates source and destination mappings, followed by an analysis phase that validates mappings using a rules-based Migration Project engine. During its analysis, StorageX identifies any conflicts or issues and allows changes or corrections. The design and validation phase is extremely valuable as multiple designs can be created providing options to pick the best design for a particular environment. After validation and execution of the design, StorageX automatically provisions destinations and creates the migration policies associated with the design. StorageX then uses the policies to migrate CIFS shared folders, NFS exports, file attributes, and permissions from sources to destinations.

Microsoft DFS Namespace Management

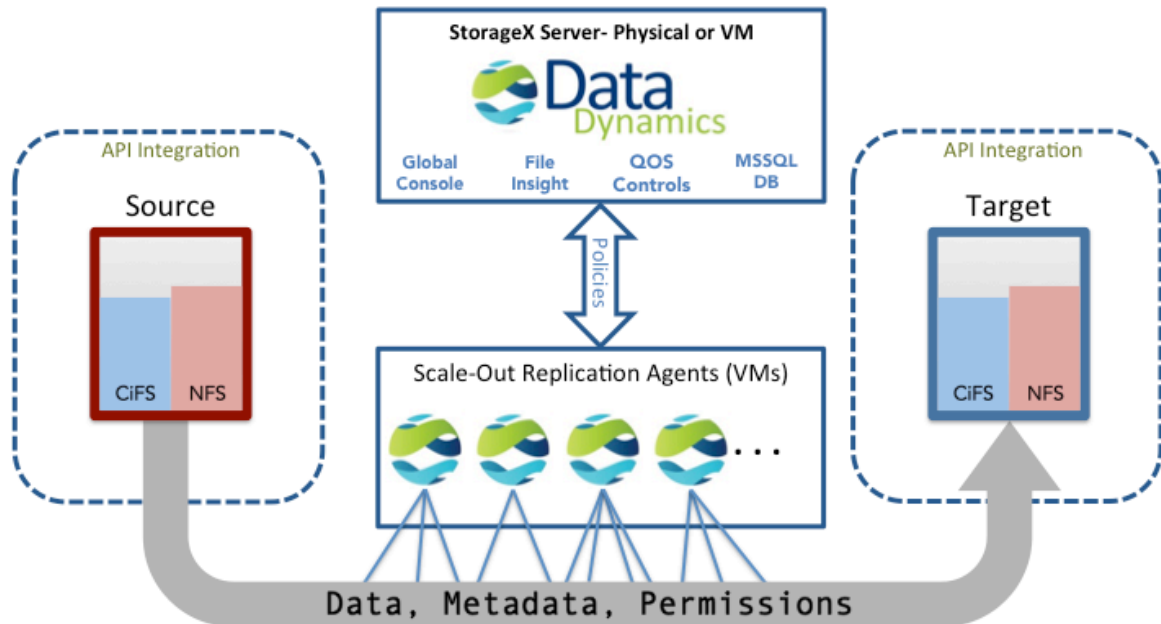
StorageX DFS management capabilities can abstract a physical file storage environment into a logical, business-focused view that is meaningful to end-users and flexible to manage. StorageX DFS management capabilities can rebalance file storage resources or replace resources without disruption to user access. When used in conjunction with migration policies, StorageX DFS management can streamline and automate CIFS file data migrations even further. Simply configure migration policies to automatically update DFS namespace links that reference the old source to now refer users to the new destination during the final cutover phase. This reduces cutover times and minimizes user disruption during file data migration.

Architecture

The StorageX architecture starts with the StorageX server, which runs on a physical or virtual server. It hosts a console that can centralize the management of all policies, a Microsoft SQL Server database that keeps track of all policies and projects, and scale-out virtual server-based StorageX replication agents that execute copy jobs and manage multi-threading. The architecture is fully out-of-band, with the StorageX server interacting with NAS systems via policies rather than holding or modifying data itself. The StorageX server and StorageX Console run on Windows 2008 or later. StorageX replication agents run on Windows 2008 or later or Red Hat Enterprise Linux 6 or 7.

API integration with NetApp SnapMirror and EMC isi_vol_copy technology allows array-based migrations to be managed within the same console as host-based migrations.

StorageX Out of Band Architecture



User Interface

The highly intuitive StorageX user interface takes the guesswork out of migrating and managing file data in complex storage environments. Administrators can add storage resources to StorageX for individual management or import an entire NAS environment at once. Views are global and cross-platform. Wizards help to easily create and validate data mobility policies, Migration Projects, and Migration Project designs. Storage resource provisioning tasks such as creating volumes, shares, and exports can be centrally and consistently managed across protocols (CIFS and NFS) and platforms (NetApp, EMC, Windows, and Linux) in a single pane of glass.

Vendor Support

StorageX 7.6 supports any standard CIFS or NFS device as a source or a target, including NAS arrays and Windows or Linux file servers. API integration with EMC supports EMC VNX/VNX OE for File and Isilon/OneFS, including NDMP as an option to execute migrations. API Integration with NetApp supports Data ONTAP 7-Mode and Cluster Mode, including orchestrating SnapMirror to execute migrations.

About Data Dynamics

Data Dynamics is a leading provider of unstructured data management solutions that enable the agile discovery, analysis, optimization, migration and management of large data assets across the information lifecycle. Its award-winning StorageX product suite eliminates multi-vendor storage silos providing enterprises with an intelligent, policy-based, cloud storage management platform to empower data portability, usability and insight for business agility and operational efficiency. StorageX has been adopted by hundreds of enterprise customers, Fortune 500 companies, and large municipal governments to increase storage portability for the simplified adoption of next-generation heterogeneous datacenter and cloud infrastructures.

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