



**At-scale data management solution for data protection, archiving, migration and synchronization.**

**Scalable, Flexible, Reliable**

**Simple Operation and Integration**

**Single and Multi-Site Architectures**

**File, Object, Cloud and Tape Storage**

**Access Control and Auditing**

**Turnkey Solutions and Support**

## DDN DataFlow™

As they pursue digital modernization, organizations manage more critical data than ever before. The adoption of high-performance computing, artificial intelligence, and deep learning challenge organizations with large volumes of data that must be captured, managed and retained reliably. Traditional data management tools are proving unable to keep up with the demands of modern data workflows. To ensure critical information is always available when needed, enterprises require powerful data management capabilities.

### Protect, Manage, and Preserve All of Your Data Throughout Its Lifecycle

At a time when organizations are facing unprecedented data growth, rising infrastructure costs and intensified legal risks, DDN simplifies data management and provides enterprise-class visibility and control. With DDN DataFlow solutions, organizations can protect, manage, archive, and recover digital information simply and effectively, across any infrastructure, on any platform, over any period of time.

DDN DataFlow is an all-inclusive software solution that enables customers to design, deploy and operate high-performance data workflows at-scale. It's a fast, flexible, and reliable data platform that can scale seamlessly to meet even the most demanding project requirements. DDN DataFlow safeguards critical information, provides long-term retention of valuable assets in an organized repository, and delivers distributed multi-threaded capabilities for fastest data operations. It also offers powerful file synchronization solutions—even across heterogeneous storage platforms and remote locations.

### Access and Store Data On Any Platform

DDN DataFlow easily integrates with DDN Storage systems as well as most file, object, cloud and tape data platforms. DDN DataFlow's extensive interoperability enables multi-source and multi-destination data workflows with nearly limitless possibilities.



**BACKUP**



**ARCHIVE**



**MOVE**



**SYNC**

**WITH**



**FILE**



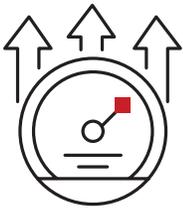
**OBJECT**



**CLOUD**

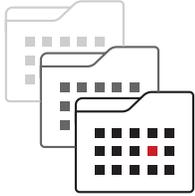


**TAPE**



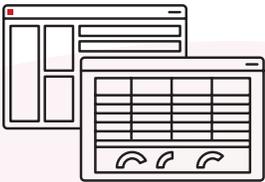
## Parallel Data Engine Designed for Scale

With DDN DataFlow, every task is executed via multi-threaded data movers and managed by an intelligent job scheduler for fast, efficient and reliable system operations. The distributed architecture provides tremendous performance, scalability, and flexibility which makes DDN DataFlow powerful and easy to integrate within any infrastructure.



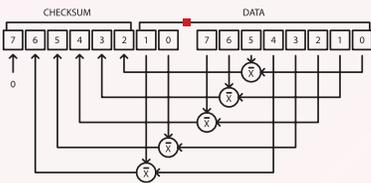
## Rapidly Identify New and Changed Data

Advanced capabilities in DDN DataFlow ensure speedy and accurate execution by eliminating unnecessary resource-intensive crawls. The patented parallelized FastScan filesystem scanning technology quickly and efficiently examines the contents of storage systems, for fast and efficient data management.



## Intuitive User Interfaces Simple for Everyone

DDN DataFlow GUI consoles cover all administrative and operational functions. They bring extensive and powerful capabilities within reach of every user and enable self-service even for non-experts. Comprehensive CLIs and APIs are also available for pipeline integration and automation.



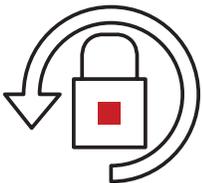
## Data Integrity Validation at Every Step

Advanced checksum functions are computed by data movers for each file during every operation. Automatic integrity verification controls ensure the fidelity of all data, and enable on-demand auditing of archive storage integrity. Multiple checksum schemes are supported by DDN DataFlow using both open and proprietary standards.



## Enforce Controls for Security and Compliance

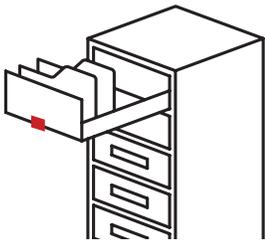
A trusted framework manages user access and ensures appropriate segregation of information based on policy and classification. DDN DataFlow integrates with directory services for user authentication and rights management, as well as external monitoring platforms.



## Complete Data Protection

DDN DataFlow safeguards critical information and ensures that it remains available when the unexpected happens. The solution makes it easy to configure, manage and monitor data protection workflows through a simple centralized administration console. The high-performance scalable architecture guarantees that every backup window is met, and provides reliable disaster recovery (DR) for business continuity at any scale.

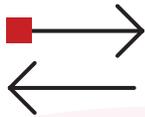
DDN DataFlow makes it easy to retrieve data in a granular and flexible manner. Its unique timeline-based console enables users to quickly locate and restore individual files from any point in time and from any tier of storage with high confidence.



## Long-Term Data Preservation

DDN DataFlow provides long term retention of valuable assets in a structured repository that can be accessed for generations. This enables organizations to retain valuable data with most technical and economic benefits, as well as enforce corporate standards for retention, security and accessibility across all data in their group.

DDN DataFlow maintains a central archive catalog of all assets. Its hierarchical tree structure can be browsed, searched and re-organized. User-specified metadata can be added to enrich the collection and enable easy data discovery. The archive catalog is complemented with extensive tools that can audit the content of the archives on-demand to ensure integrity of its contents. This enables organizations to meet regulatory compliance standards and pass the most stringent digital security and data vaulting audits.



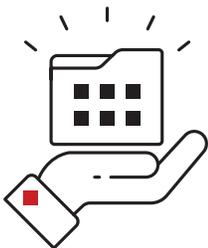
## Simple At-Scale Data Movement

DDN DataFlow provides massively distributed and multi-threaded capabilities for fast, agile and reliable data movement operations. The architecture can move data between different types of storage platforms, on premise and in the cloud transparently. Data is collected on the source storage platform before being converted automatically to the right format on target storage fully maintaining ACLs and other attributes along the way. The entire process is managed centrally for efficient, reliable and auditable operations.



## Quick And Precise Data Synchronization

DDN DataFlow provides high-performance data synchronization between two storage locations using FastScan technology for accuracy and parallel architecture for speed. The process preserves all original file attributes, including ACLs. DDN DataFlow can synchronize data within two filesystems, to a remote location, and even across heterogeneous storage platforms. The monitoring interface provides detailed real time reporting on the progress of synchronization operations, and enables easy verification to ensure high-confidence success.



## Expert Data Migration Solutions From DDN

Moving massive amounts of data rapidly, efficiently and reliably can pose significant challenge. The DDN global professional services organization provides planning, execution and validation of turnkey data migration operations at any scale using DDN DataFlow. Turnkey services are available onsite and remotely, worldwide.



## About **DDN**

DataDirect Networks (DDN) is the world's leading big data storage supplier to data-intensive, global organizations. DDN has designed, developed, deployed, and optimized systems, software, and solutions that enable enterprises, service providers, research facilities, and government agencies to generate more value and to accelerate time to insight from their data and information, on premise and in the cloud.

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