

Move data faster for greater discoveries with HPC

The modeling and simulation capabilities enabled by High Performance Computing (HPC) are essential for extracting value from the petabytes emitted by today's scientific instruments.

Yet data management at scale has changed little from the early days of supercomputing. Today, legacy data management and its limitations at scale have become critical issues for many HPC sites.

Mediaflux is revolutionizing data management at scale, providing a reliable data management platform that ensures data is securely yet easily accessed in a collaborative environment – one which can harness the explosion of data for rapid scientific discoveries.

Mediaflux seamlessly integrates the storing, retrieving, managing, sharing, organizing, and analysis of data at massive scales into a unified platform.

Mediaflux serves data directly to HPC environments to shorten the time to discovery

Speed and Immense Scale

A simple set of coherent services can be deployed at scale to contend with increasing volumes and complexity of data - quickly.

Gain Competitive Advantage

Access and discover data within any file format to unlock critical insights – at the full speed of existing or future infrastructure.

Future-Proof Adaptability

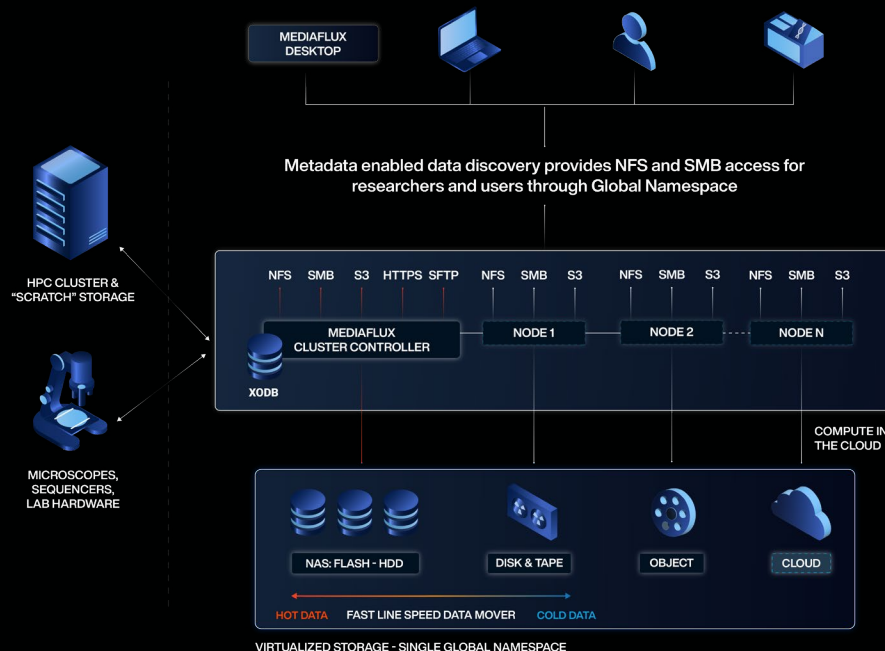
A powerful foundation stack for any data formats or standards, with the ability to evolve to support future formats and standards – as they emerge.

Significant Cost-Cutting

Automate workflows, better leverage cheaper storage, and eliminate unnecessarily duplicated data.

Free from vendor lock-in

Migrate data from one storage vendor to another, transparent to users.



Key Benefits

Complete data visibility

Unifies data silos within an integrated ecosystem of data services, enabling comprehensive search across all data holdings.

Find data easily

Stop chasing your data. Use metadata extraction and search to locate hard-to-find data, by querying any arbitrary workflow-specific metadata desired.

Avoid transfer headaches

Efficiently, securely, and reliably transfer large and distributed data directly to and from HPC to local, cloud, and partner storage.

Save time managing data

Automate complex workflows and schedule batch processing into the right place to run sophisticated applications or HPC processes at any scale.

Maximise efficiency and agility of data

Automatically place less-frequently accessed content on lower-cost storage. Different storage types and vendors can be configured at any time – transparent to users.

More control over data access

Any entity within Mediaflux is audited and every change to data or metadata is versioned. Gain insights into who is using research data and when, and from where.

Share your data

Manage access simply and securely with collaborators at other institutions. You specify what data can be searched and accessed by worldwide collaborators.

Mediaflux Powers Some Of The Biggest Supercomputers In World:

National Applied Research Laboratories (Narlabs)

Mediaflux serves as the core data management platform for Taiwan's National Centre for High-Performance Computing. Its TAIWANIA 2 is one of the world's fastest supercomputers, delivering >9 PF of computing power to support government-led projects and future industrial research in fields that include healthcare, smart cities, smart manufacturing, fintech, and others.

Pawsey Supercomputing Centre

Pawsey Supercomputing Centre is home to one of the largest research-focused object storage systems in the world, with 130 petabytes of online and offline storage. Mediaflux currently manages several collections and projects with more than 100 million assets and 6+ PB of data on multiple heterogeneous storage systems.

