TECHNICAL SOLUTION BRIEF

# Mediaflux® and BlackPearl® enable affordable data management and bridge data silos for rapid discovery and control.


## Complete data management with Arcitecta's Mediaflux and Spectra Logic's BlackPearl.

Mediaflux paired with Spectra Logic's data storage solutions creates the ideal integrated solution for long-term management of any data at any scale. Mediaflux provides a user-friendly interface and sophisticated data management capabilities, while Spectra provides extremely cost-effective solutions that accommodate growing demands on storage. Leveraging the power of metadata, Mediaflux enables policy-based virtualisation of existing data silos with the efficiency and protection of Spectra BlackPearl's scalable storage.

Mediaflux can manage any type of data and enable flexible workflows that can be readily configured to streamline the capture, storage, discovery, transformation, and consumption of data in any industry. BlackPearl delivers multi-tiered storage allowing for organisations to store data on a number of storage targets including disk, tape, and public cloud.

**Arcitecta**
info@arcitecta.com
www.arcitecta.com

## Mediaflux Data Management Platform.

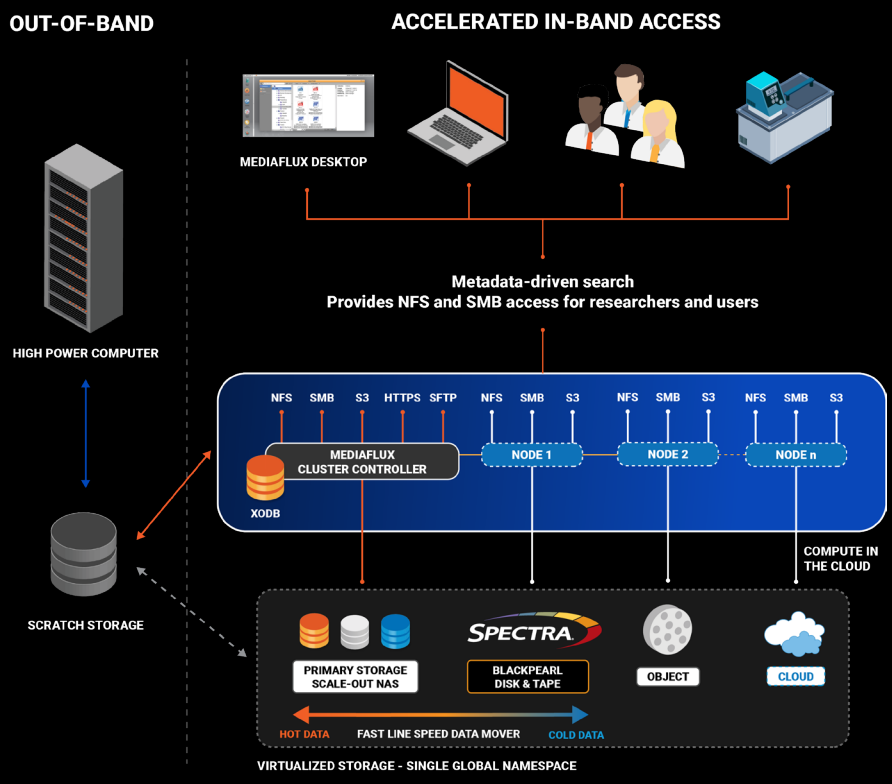
Organisations are confronted with processing, moving, storing and keeping track of ever increasing amounts of data. Mediaflux is a robust, flexible data and metadata management platform that unifies disparate data silos into a secure, searchable collaboration environment across a single global namespace. Designed for extreme scale and performance, Mediaflux indexes content and metadata to automatically tier targeted data to more cost-effective Spectra Logic disk and tape storage.

- Extreme scalability with a system that can support tens of billions of files and moves data at any scale.
- Extracts rich metadata on ingest and tags data to enable more efficient searches.
- Arcitecta Archive (AAR) can compress a large number of files into a small object to send to BlackPearl.
- Protects valuable data with sophisticated access controls, traceability and data encryption.
- Accelerates scale-out NAS I/O.

## BlackPearl Converged Storage System.

Spectra BlackPearl Converged Storage System solves the problem of costly and complex approaches to digital preservation by combining multiple standard interfaces and storage targets into a simple and affordable solution designed for diverse workflows. BlackPearl unlocks multiple storage targets including online disk, nearline disk, deep storage tape, and even public cloud. BlackPearl streamlines the approach to complex workflows by utilising cloud architecture, object storage and LTFS tape.

- Deploys effortlessly as a full plug and play solution.
- Operates seamlessly with extreme scalability.
- Delivers affordable storage that meets service-level requirements.
- Ensures data security, reliability and integrity.




## Key Benefits.

- Reduce storage costs and accelerate workflows.
- Automatically tier and manage data.
- Securely access data worldwide within a single global namespace.
- Find data easily with metadata extraction and tagging.
- Automate workflows.
- Fully integrate storage from disk, tape and public cloud.

**Arcitecta**
info@arcitecta.com
www.arcitecta.com

# Technical details.

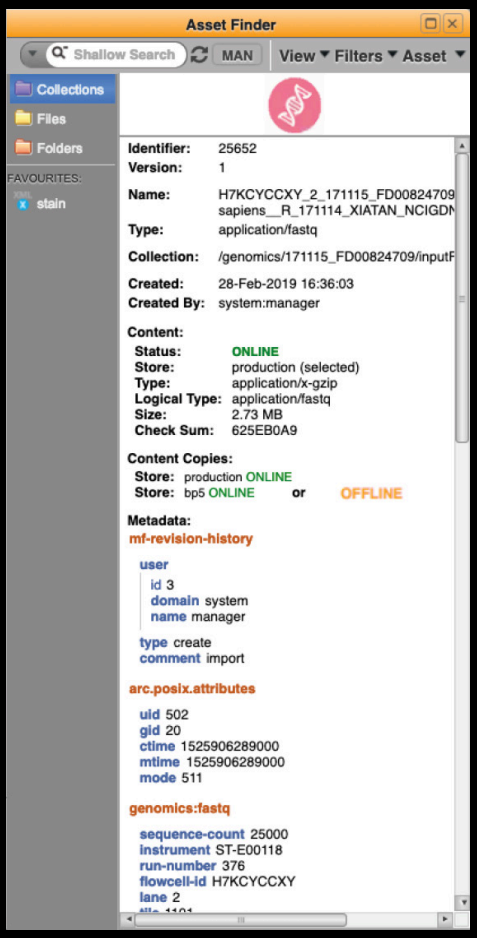
## Mediaflux hardware requirements.

Deployments for a few users can be supported by a laptop or desktop computer. Workgroup deployments typically require a small server with a few processing cores and at least 4GB of available RAM. Systems can be deployed in multi-node clusters to scale performance and I/O. In addition, systems can be distributed geographically for global deployments in federated or replicated implementations.

## System compatability.

A BlackPearl must be configured and available for network communications with Mediaflux. Spectra Logic BlackPearl v.5.0 or later is required. Mediaflux v.4.8.001 or later, configured with the BlackPearl plugin content store is required.

Below is the Mediaflux desktop. The Asset Finder enables simple, powerful search and displays a lot of information about the data. The data itself is called content. All of the information shown here is stored in Mediaflux database (XODB).




Content icon or image – i.e. a low-resolution version of image stored in XODB.

File system level information (metadata) such as:
Name, Location, Creation Date, etc.

Specific information about the content. The data checksum, size. Whether the data is accessible:
**ONLINE** – content is available on nearline storage.
**OFFLINE** – content is on deep storage (on BlackPearl Tape).
**ONLINE+OFFLINE** – content is available on both nearline and deep storage.
**MISSING** – content is missing.

The revision history of the metadata data itself, that enables audit trails. If the metadata is changed or appended, Mediaflux keeps track of it.

This section contains the richer descriptive metadata for the content. This metadata is extracted during the ingest process. Mediaflux has a specific custom-built scraper that extracts specific metadata based on the data type. These plug-in content analyzers extract information such as the geospatial coordinates or bounding boxes, image type and resolution, scanner instrument information, and so much more. This also shows user generated metadata such as: annotations, labels, tags, comments, and workflow-specific actions.

**Arcitecta**
info@arcitecta.com
www.arcitecta.com