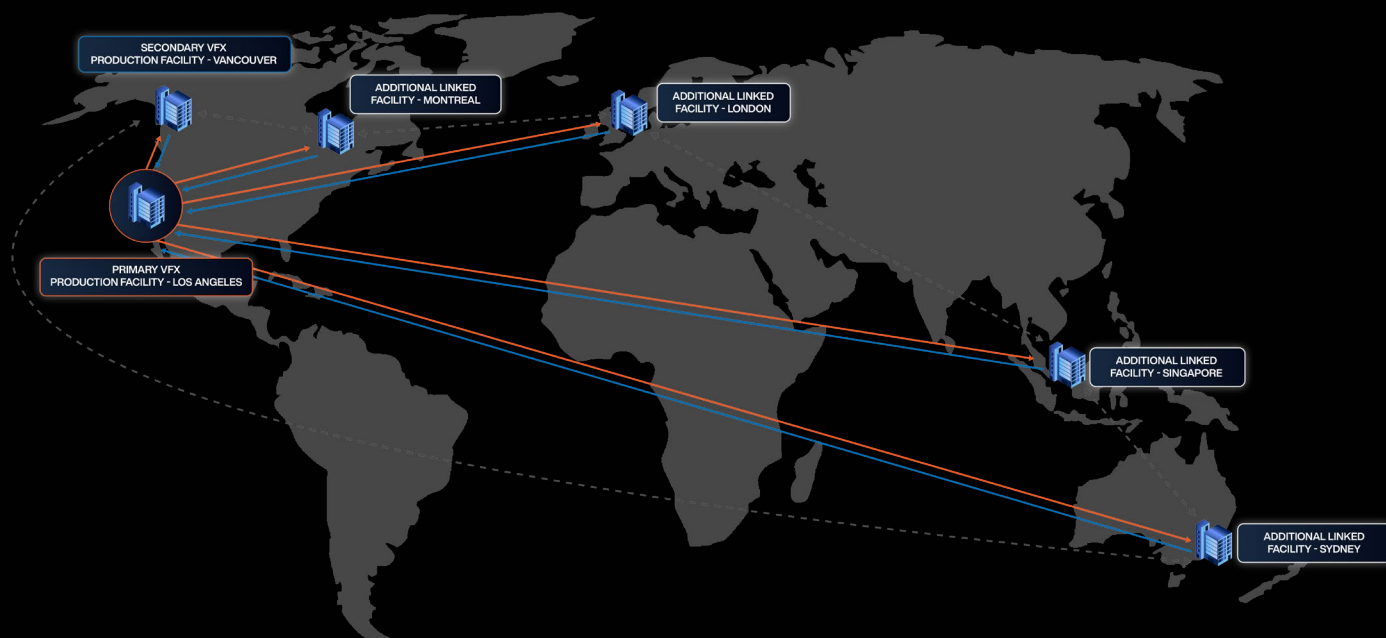


Dell Storage and Arcitecta Mediaflux® Edge: Consolidate, Centralise, and Optimise Your Data Across the Globe

Transmitting data over distances has become commonplace for organizations with increasingly distributed workforces. Latency reduction in distributed workflows is a primary use case for Mediaflux Edge. Mediaflux Edge can help improve application performance by storing frequently accessed data closer to the end users. Caching aims to reduce unnecessary end-to-end data transfers by keeping frequently accessed content at the edge, close to users. This dramatically reduces redundant data transfers, eases network traffic and meets applications' low-latency requirements.

Mediaflux Edge features a fast file system front end, backed by Dell ECS object or Dell PowerScale file storage. Utilizing high-performance Dell PowerEdge-based appliances, it ensures that frequently accessed data is stored close to users. As a key component of the edge computing model, this solution places key data near the network's edge, efficiently meeting local performance needs. This setup also allows for easy and limitless scalability through a central hub or repository architecture.



Organizations can streamline their deployment strategies, benefiting from the cost efficiencies of centralized hubs while enabling edge users to run applications at full speed without the need to overprovision multiple data centres.

Mediaflux Edge enables you to consolidate all your data into a central repository by transferring data from the edge to a central, consolidated storage environment. Mediaflux Edge maintains a copy of everything within the central repository, ensuring optimized, full recovery capability should a user group experience an unplanned event at the edge. Edge caching enable users to store content on edge nodes, improving retrieval times and reducing delays by utilizing edge device resources and avoiding unnecessary end-to-end connections.

Key Benefits

- **Speed and Performance** – Real-time replication provides fast, local access to mirrored data across sites, boosting productivity for distributed teams.
- **Reliability** – High availability and automatic failover/failback are supported across edge, data centre, and cloud systems.
- **Security and Compliance** – Integrated global file locking and versioning prevent conflicts, maintaining data integrity.
- **Cost Efficiency** – Global data protection by default streamline processes, reduce costs, and improve recovery performance.
- **Scalability** – Local file caches at edge locations manage unstructured data growth while ensuring user productivity.

Key Features

- **Data Consolidation** – Centralize your data in a single location, leveraging the scalability and performance of enterprise-grade Dell PowerScale.
- **Global Data Access** – Create a unified data set for users worldwide, improving access, collaboration, and performance with intelligent file caching.
- **Localized Processing** – Enhance performance by processing data at the source. Utilize PowerScale and compute resources at the edge where data is ingested.
- **Transparent Access** – Ensure seamless access from edge and ROBO locations through a global namespace with real-time central file locking and versioning.



Mediaflux Edge Caching Architecture

Mediaflux creates a software fabric that caches active data sets in remote offices globally, guaranteeing transparent data access and optimal performance on a global scale. The hub-and-spoke topology ensures remote offices have fast access to data at the edge, and all data is simultaneously transferred to the central hub for consolidation.

Real-Time Infrastructure for a 24/7 World

Today's always-on world demands a real-time infrastructure that extends to remote offices, supporting latency-sensitive applications and services at the edge.

Comprehensive File Management Solution

Mediaflux simplifies file management and orchestration in multi-site, multi-vendor, and multi-cloud environments. The Mediaflux appliance provides the ability to connect to, and support migration from other storage solutions including tape, allowing you to select the optimal hardware for your workflow.

Integration with PowerScale

- **Real-Time Monitoring** – Mediaflux can deploy in-band or out-of-band to monitor real-time file system events, transferring data seamlessly.
- **Data Synchronization** – Mediaflux XODB ensures synchronized file systems while preserving extended and custom metadata attributes.
- **Flexible Job Support** – Supports multiple job types, focusing on File Collaboration, Cloud Backup, and Cloud Replication, providing a real-time global file system experience.

Arcitecta + Dell Technologies: Better Together

It shouldn't matter where these data workflows occur – joint solutions from Arcitecta and Dell Technologies deliver data where it's needed at the right time. Arcitecta's pioneering metadata and data orchestration tools coupled with Dell Technologies' powerful, industry-trusted infrastructure enable a global distributed edge that stays simple and performant, no matter the complexity of your workflows.

About Arcitecta

Arcitecta has been crafting highly advanced platforms since 1998. Today, Arcitecta is transforming data management and backup with Mediaflux, a rich end-to-end data fabric that simplifies data-intensive workflows in petabyte-scale environments to improve business and research outcomes. Mediaflux unifies data management processes into a single platform, simplifying the administration of big data and allowing world leaders to solve some of the most challenging problems on the planet.

About Dell Technologies

Dell Technologies is a trusted leader in media and entertainment storage for content creators, broadcasters, and content delivery providers. Dell Technologies storage forms the foundation of a simple and future-proof infrastructure, giving you the agility to transform business operations, and the flexibility to adapt to new media workflows. Through innovative products and services, Dell Technologies accelerates the creation and monetization of media, helping media professionals store, manage, protect, and analyze their most valuable digital media.

