

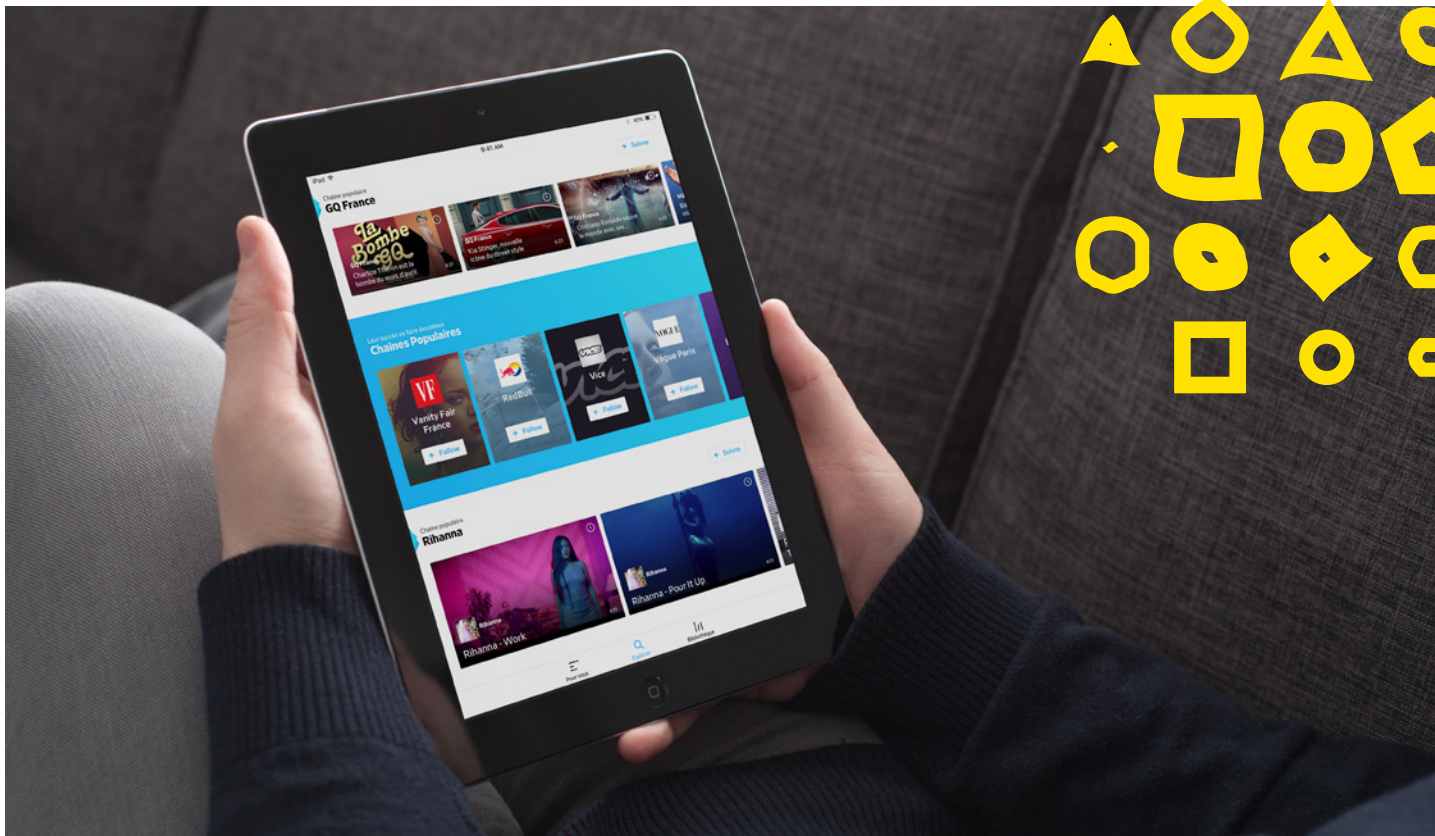


Dailymotion improves infrastructure sustainability and TCO with OpenIO SDS

ABOUT DAILYMOTION

- 2nd largest video content website worldwide
- 35th most visited website worldwide
- Premium videos and live stream content

OpenIO overcomes the limits of traditional object stores in high demanding environments



QUICK DATA

50 M
videos

800 M
objects

40 PB
storage

30%
storage
growth/year

Dailymotion asks high scalability, flexibility, availability and good TCO in equal parts to its infrastructure.

This is why they have chosen **OpenIO** to replace scale-out NAS systems.

“ To meet our ever-increasing storage needs, OpenIO object storage naturally stood out as a scalable, efficient and easy-to-run technology.

→ Alan Martins, VP Infrastructure, Dailymotion

OpenIO SDS costs us 50% less than a comparable scale-out NAS solution. ”

The context

Dailymotion is the most popular European website and the one of the world's largest video hosting platforms, with 3 billion views per month. Its success is due to a huge, constantly expanding catalogue of 50 million videos, accessible from any type of device.

This company, now part of Vivendi, was founded in 2005 by Benjamin Bejbaum and Olivier Poitrey, just one month after Youtube. Its growth has been continuous since its launch. With a huge amount of data - more than 800 million objects and 40PB of online storage, increasing 30% yearly - Dailymotion requires a data storage infrastructure with high scalability, flexibility, availability, and low TCO. This is why they have chosen OpenIO to replace scale-out NAS systems.

Dailymotion adopted object storage 3 years ago, and started to build an active/active mirrored storage infrastructure to ensure the best availability and performance at all times.

While their experience with this infrastructure was positive, they needed a technology that could overcome the limits and constraints of traditional storage systems they adopted in the past. OpenIO SDS's unique architecture enables Dailymotion to consolidate several scale-out NAS systems in a single cluster, allowing them to create a single domain namespace. And the flexibility of OpenIO SDS ensures that there are no disruptions when expanding or reconfiguring.

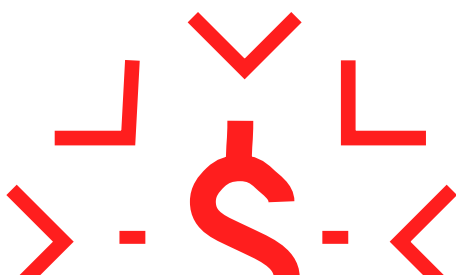
Dailymotion has put great effort in developing its infrastructure. Everything is designed for the best user experience, and this is why Dailymotion wants to keep absolute control over all its components by developing most of their software in house and with an open-source-first approach.

Distributed in multiple data centers for redundancy, and supported by a global CDN (content distribution network), Dailymotion requires consistent performance from its storage systems. Every video is considered to be important, no matter when it was created or how many times it has been accessed, and quick access times are essential. This is why storage is a fundamental component of Dailymotion's infrastructure.

The choice

Considering the size of Dailymotion's infrastructure, and the fact that it costs half as much as a comparable scale-out NAS system, without even taking in account the lower TCO, OpenIO SDS is a formidable solution for high demanding environments.

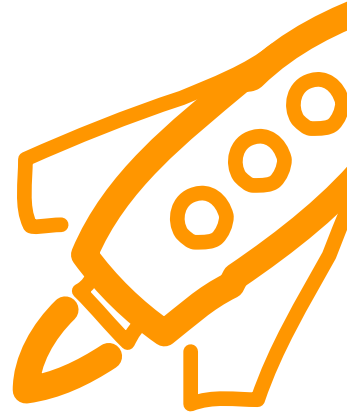
This is why Dailymotion has chosen OpenIO SDS for its next-generation storage infrastructure.



“ Dailymotion works at web speed and needs swift reactions from his partners. OpenIO has demonstrated in the field how quick and proactive its engineering is.

”

→ Thomas Gerbier, System Engineer, Dailymotion



Why Object Storage

Object storage is ideal for web and mobile applications. Items can be accessed using HTTP-based protocols, from any location or application, and the infrastructure is easy to manage since it uses TCP/IP instead of separate protocols for storage and networking.

Object storage systems are also more scalable than other solutions, making it easier to build infrastructures such as the one required by Dailymotion.

With a 40PB storage infrastructure and 30% year-over-year growth, any compromise would affect the ability to deliver the best possible service and optimal TCO.

Another key aspect of object storage is its overall reliability. Object storage systems are designed with efficiency and reliability in mind. Data protection techniques, such as erasure coding, are implemented alongside embedded multi-site and geo replication to ensure the most reliable data availability.

Why OpenIO SDS

Dailymotion’s strategy is based on software-defined storage and commodity hardware. Dailymotion wanted the software to be separate from hardware, so they could choose the best configuration without compromises, and at the best available price. This approach is also beneficial for hardware upgrades over time, allowing Dailymotion to go through different hardware generations without paying for the software again.

CapEx to OpEx

OpenIO SDS has a financial advantage over other solutions: the software is free and the customer pays only for support services.

Unmatched flexibility

Contrary to the way traditional ring-like solutions (usually based on distributed hash tables) work, OpenIO SDS has a unique architecture that is much easier to configure and manage. Cluster reconfigurations can take place in minutes without impacting performance and new resources. Expansion, reconfiguration, and fail management become simple operations that can be carried out during working hours, and new resources are available to applications within minutes.

OpenIO SDS’s unique architecture allows the consolidation of several scale-out NAS systems in a single cluster for better efficiency and TCO

Continuous optimization

Thanks to OpenIO SDS’s Conscience technology, a set of advanced monitoring tools and algorithms ensures that the cluster is always balanced and optimized without any human intervention. This performance, and its consistency over time, was another key factor in Dailymotion’s choice. OpenIO SDS has shown impressive performance regarding Dailymotion’s specific workloads.

Overall TCO lower than that of other solutions.

OpenIO SDS clusters are extremely easy to implement, operate, and expand. The web UI and CLI give great visibility for all aspects of the cluster.

Swift and responsive support services

One of the benefits of dealing with a lean company like OpenIO is its attention to quick, efficient support, and its streamlined path to engineering resources. Dailymotion works at web speed and needs swift reactions from his partners. OpenIO has demonstrated in the field how quickly its teams can fix bugs and how proactive its engineering team is.



“ What differentiates OpenIO is that it scales quicker, more transparently and without constraints compared to other solutions we have tested. And we already know that OpenIO SDS can adapt immediately, without effort, if we will make changes to our workflows in the future.

”

→ Alan Martins, VP Infrastructure, Dailymotion

Key takeaways

OpenIO SDS is a next-generation object storage solution which brings together unmatched flexibility, ease of use, performance, and TCO.

Based on an innovative architecture which overcomes the limits of traditional object stores, it continuously optimizes the cluster and allows it to be expanded and reconfigured quickly as needed, with no service disruptions, providing access to new resources as soon as they are available.

Its software-defined and open source nature are other key elements for those users who look for flexibility, freedom, auditability, ease of integrating cutting-edge technology, and low cost.

This is why Dailymotion, in its position as European market leader and innovator, has chosen OpenIO SDS

OpenIO SDS is a next generation object storage solution which brings together unmatched flexibility, ease of use, performance and TCO

Learn more at
openio.io

