

SOLUTION BRIEF

HyperFS for Media and Entertainment

Purpose-built solution provides digital workflows at hyper-speed

Highlights

The HyperFS solution from FalconStor Software provides the following benefits for M&E organizations:

- > Supports large post-production, animation, visual effects, and broadcasting applications
- > Scales to 144 petabytes — over 70 times the industry standard
- > Industry-leading performance
- > Easy to use and highly available
- > Supports Microsoft Windows, Linux, and MAC OS X clients
- > Flexible deployment options
- > Cost-effective solution
- > Ideal for video and streaming workflows

With the shift to ever-higher definition formats such as HD, 2K, 4K, 8K, and 3D, most media and entertainment (M&E) organizations are challenged to cost-effectively support real-time file-based workflow with concurrent multi-user access and high ingest/egest rates. Conventional shared file systems are simply not up to the task.

To meet these challenges, the HyperFS™ solution from FalconStor Software supports concurrent shared file access to hundreds of clients as well as petabyte-level data storage capacity and gigabyte-level transmission bandwidth. The HyperFS solution is an innovative file system that simplifies the management of large files, providing high-speed file access to heterogeneous clients across a global repository to meet the performance and scalability challenges of today's most demanding M&E applications.

Designed for post-production and broadcasting

Whether creating visual effects, 2D and 3D animation, main titles, or trailers; or mixing sound for feature films, television, advertising, interactive visual media, and video games, post-production houses feature end-to-end digital capabilities. To meet production deadlines, real-time collaborative workflow is critical to successful operations.

Developing content, preparing it in multiple formats, and distributing multiple streams requires high throughput, low latency, and highly scalable systems that can not only enable real-time collaborative workflows and store billions of images, videos, and music files, but also distribute them on-demand with sub-millisecond response times, and stream massive HD content without missing a frame.

Designed specifically for storing, accessing, and sharing media in collaborative, heterogeneous workgroup environments, the HyperFS file system integrates seamlessly into production processes to deliver real-time, high-resolution media streams, enabling customers to generate revenue faster and store more data at a lower cost. Combining high-speed data sharing with cost-effective content retention, HyperFS helps M&E customers build an infrastructure for consolidating resources so that workflow operations run faster and business assets are fully leveraged. Since data sharing and retention are combined in a single solution, HyperFS eliminates point products that only deliver a part of the desired functionality and may not integrate easily. The HyperFS solution is a comprehensive solution for every M&E application.

Massive scalability

With a single digital motion picture generating upwards of two petabytes of data, imagine being able to manage all of it in one place, in one file system, in one global name space and among all points in the workflow. The HyperFS solution can manage up to 144 petabytes of shared storage in a single repository for demanding video applications. This is over 70 times the industry standard. Users share a single global name space capable of containing all active online and archived content.

Industry-leading performance

With the HyperFS solution, software is no longer a bottleneck. All applications and systems that are part of a workflow enjoy concurrent, real-time performance by harnessing the full potential of hardware and SAN speeds. HyperFS can tap the full power of InfiniBand, 10GbE, Fibre Channel (FC), FC over Ethernet (FCoE), and iSCSI connectivity together with today's multi-core servers and advanced storage subsystems.

Post-production workstations and servers access stored data directly over the SAN with almost no protocol overhead. Data can be striped across multiple disk volumes to provide the highest ingest/egest rates and reduce project cycle times.

Easy to use and highly available

All HyperFS clients share a single global name space. Administrators can expand, move, rebalance, and reconfigure storage without affecting how users view and access it, and without downtime. Data changes are automatically updated in the name space, and require no client reconfiguration or downtime. Storage capacity can be added non-disruptively, rapidly, and dynamically, without interrupting workflow or streaming. HyperFS can be configured in a highly available redundant configuration to support the non-stop operations that are so crucial to post-production and broadcasting.

Flexible deployment options

The core HyperFS software runs on popular versions of Linux. Client/workstation agents are available for 32-bit and 64-bit versions of Microsoft Windows, Linux, and Mac OS X. For higher definition formats, specialized, extreme performance storage is available from FalconStor's resellers.

HyperFS can use existing SAN storage and storage networks. As such, this solution takes full advantage of an enterprise's existing resources and provides low-cost, high-performance, cross-platform technology that is easily scalable and highly available.

Cost-effective

The HyperFS file system is hardware-independent, and achieves maximum management efficiency by consolidating disparate storage resources into a single consolidated pool of storage for digital media production and broadcast deployments. This not only requires less hardware resources than other products but also translates into fewer management software licenses, reduced storage hardware expenditures, lower operational costs, and optimized return on investment (ROI). M&E organizations can now afford highly scalable capacity that retains all digital content at minimal cost, with maximum performance and availability.

About FalconStor

FalconStor Software, Inc. (NASDAQ: FALC), the provider of TOTALLY Open™ Data Protection solutions, delivers the most comprehensive suite of products for data protection and storage virtualization. Based on the award-winning IPStor® platform, products include the industry-leading Virtual Tape Library (VTL) with deduplication, Continuous Data Protector (CDP), File-interface Deduplication System (FDS), and Network Storage Server (NSS), each enabled with WAN-optimized replication for disaster recovery and remote office protection. Our solutions are available from major OEMs and solution providers and are deployed by thousands of customers worldwide, from small businesses to Fortune 1000 enterprises.

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