# Global Capital Management Firm Overcomes VM Performance Bottlenecks with Tintri VMstore™

**VMstore**

Liongate Capital Management is an investment management and research firm specializing in portfolios of hedge funds, and targets high absolute returns in any market environment. In addition to the London, UK office, Liongate has offices in New York, Zurich and Dubai.

## The Challenge: Existing Storage Not Adequate for Increased VM Performance Requirements

Liongate is fully virtualized in its environment. The firm's existing storage could not meet the increasing performance requirements of fully virtualized infrastructure. Liongate turned to its solution provider, which recommended Tintri VMstore systems for Liongate's VM storage.

Liongate used a mix of traditional Fibre Channel (FC) and iSCSI block storage systems in its virtualization environment. As the IT infrastructure approached 100% virtualized, the existing storage systems could not keep up with increasing performance demands. "The performance of the existing storage solutions just could not keep up with the demands of a shared infrastructure," said Dustin Mommen, Systems Manager. "At peak times, the IO from one application could bring the whole company to a stop. The highly transactional nature of our workloads makes performance hiccups very expensive, and we could not afford these types of disruptions."

Management and troubleshooting of the infrastructure complicated the situation. "Managing our virtualized infrastructure with storage solutions based on block protocols became increasingly problematic," said Mommen. "We wanted to manage our environment at the VM level—which correlates directly to end-user services, such as SQL Server databases. However, our existing storage provided no ability to monitor and manage at that level," said Mommen. "It was very difficult to get meaningful performance data from our existing storage systems in a timely fashion, if at all. It was like pulling teeth, with all the pain, sans success."

Monitoring real-time performance data for critical applications was another major problem. "We could not successfully monitor historical performance metrics with our existing solutions, let alone real-time metrics," said Mommen. "Keeping close tabs on critical services in real-time is very important to us, and that was not possible."

## The Solution: Tintri VMstore

Mommen learned about Tintri VMstore from a network of systems administrators at other financial services firms. "We approached our solution provider, Jesfer Technology, and they enthusiastically recommended VMstore," said Mommen. "We went with Tintri VMstore after evaluating several general-purpose storage systems. The Tintri VMstore storage system was a perfect fit for our virtual infrastructure. It delivered the performance we needed with room to spare while providing VM-level granular management and seamless integration with VMware products," said Mommen.

"We setup the VMstore system in less than thirty minutes and felt confident enough in its abilities that we moved production VMs on to it during business hours," said Mommen. "Tintri support also helped us resolve an issue with our configuration that was unrelated to their system within forty minutes of occurrence."

## The Result: Successful Virtualization of Expanding VM Environment

"A single Tintri VMstore system provides more performance than the multiple units we had before. With VMstore hosting our mission-critical VMs, we don't have any performance hiccups during peak workloads. We are able to successfully virtualize the most demanding of our workloads, such as analytic databases, with plenty of performance to spare for future growth," said Mommen.

## Challenges

- Existing storage could not meet performance requirements
- Lack of VM-level statistics made troubleshooting and monitoring complex and cumbersome
- Real-time monitoring for critical applications was not possible

## Solution

- Tintri VMstore

## Results

- Cost-effective performance meets existing needs and accommodates future growth
- Performance metrics on a per-VM basis dramatically simplify monitoring and troubleshooting
- Seamless integration into Liongate's virtual environment

**Tintri**
*Intelligent Infrastructure*

VMstore's VM-aware storage also allowed Liongate to simplify management of storage infrastructure by eliminating the complex management requirements they had faced with legacy solutions. "The intuitive GUI dramatically simplified administration allowing us to monitor performance and capacity metrics on a per-VM basis for simplified troubleshooting," said Mommen. "Issues that used to take days to troubleshoot now take minutes," said Mommen. "The best part is that we are able to monitor our mission-critical VMs in real-time directly from the VMstore GUI."

Tintri VMstore's cost-effective performance using flash intelligently combined with granular VM and vDisk-level management allowed Liongate to successfully eliminate performance issues and simplify management. "VMstore's performance and VM-aware management make it a perfect fit for any virtualization deployments," said Mommen.

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*Dustin Mommen, Systems Manager, Liongate Capital*

Experience Different! For more information on how Tintri VMstore can turbo-charge your business success through a simple, Intelligent Infrastructure, visit tintri.com/vmstore.

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| **@tintri** | **www.tintri.com** | **info@tintri.com** |

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