![NetApp logo]

![Signiant logo]

Solution Brief

NetApp and Signiant Optimized Content Storage and Delivery
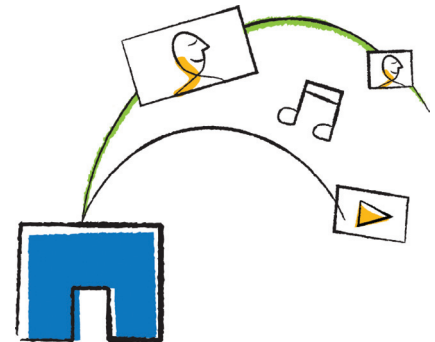
The Challenge

From 3D movies and 2K/4K files to episodics and high-definition broadcasts, media organizations today are generating digital content at enormous scale. Moving and accessing hundreds or thousands of gigabytes of files can pose a significant challenge to distributed users involved in the collaborative creation and distribution of content. Ensuring the optimization of resources requires a reliable, non-disruptive content delivery solution designed for moving large files long distances — with maximum speed, bandwidth control and high security — over any IP network.

Through integration with Signiant Managers+Agents™ accelerated file movement software, NetApp® storage systems, such as NetApp FAS or Media Content Management solution, are proven to deliver single and concurrent transfers at superior speed, scale and cost-efficiency across high-latency and low-bandwidth networks. The powerful combination can be easily scaled out across nodes in a NetApp cluster for maximum throughput.

The NetApp/Signiant solution is used in media environments to support a variety of use cases, such as the replacement of traditional network protocols for user uploads and downloads from a central cluster; automated file movement for content creation and transformation, file sharing; multi-site heterogeneous file system synchronization and replication; and migration from other storage systems.

Signiant and NetApp share a common goal of promoting industry standards for open interfaces like CDMI and FIMS. These standards maximize interoperability and compatibility in multi-vendor environments. Creating integrated solutions that use these interfaces removes artificial barriers to scale and performance.

Signiant Managers+Agents

Unlike other products that cannot scale to meet the increasing needs of demanding media applications, Managers+Agents provides a powerful solution for more sophisticated enterprise management, automation, security and control of media transfer processes.

10Gb Network, One Agent Pair*
Cumulative MB/s to Storage for All Jobs

—●— MB/s storage all jobs
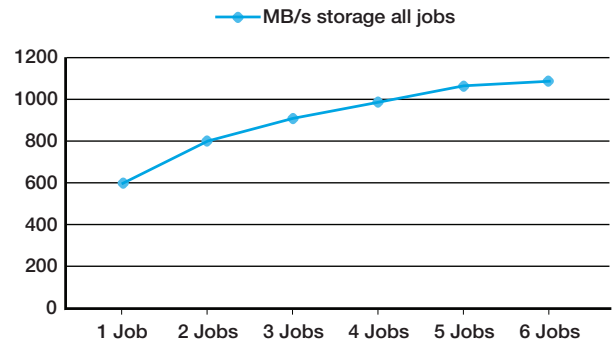
* Aggregate storage throughput including read from source storage and write to target storage.

Figure 1) 10GbE tests over a single 10G link, 1-6 simultaneous jobs.

Optimized for batch file transfers and workflow integration, Managers+Agents software enables the high-speed exchange of content and metadata files with other systems and applications regardless of geographic location or file size.

Signiant's bandwidth management capabilities allow administrators to prioritize the delivery of assets between sites and control bandwidth usage to specific locations to ensure that systems and networks are not overloaded. Combined with NetApp scale-out performance, this capability provides unmatched transfer management, enabling precision fairness to other network traffic.

Managers+Agents are designed to automate time-consuming tasks related to preparing material for distribution, including ingest, quality screening, virus scan, update scheduling, transcoding and MAM archiving.

Features
Accelerated File Transport
- High-speed, network-efficient file transfer: up to 200X faster than File Transfer Protocol (FTP) and TCP with 95+% network efficiency
- Firewall friendly
- Checkpoint restart and resume of partial or failed transfers

Content Security
- Internal or integrated directory services (LDAP and Active Directory) for authentication and authorization
- Strong encryption to guarantee data integrity and confidentiality
- Built-in certificate authority
- Certified delivery

Central Management
- Web-based administration interface for system configuration, task automation, managing current system activity, and customized reporting
- Automated or manual bandwidth limits for running jobs
- Customizable and scheduled reports, jobs, and system activity
- Programmable Web services/SOAP API for initiating jobs from higher order media applications

NetApp Key Benefits
Why Choose NetApp?

NetApp provides three storage platforms to address the specific needs of various media operations today. Production workgroups working in film or video formats can consolidate file transfer processes onto their production storage infrastructure with the high-bandwidth, modular media content management solution. Global media repositories with billions of files and multisite synchronization needs can take advantage of the StorageGRID distributed content repository. And media operations of all sizes looking for enterprise-class storage efficiency, flexibility, and resiliency will benefit from the world's most used storage solution, NetApp FAS. NetApp systems are fast, highly reliable, and surprisingly cost effective.

- Simplified deployment, administration, and management
- Lower total cost of ownership
- Nondisruptive scale-up and scale-out architectures
- World-class, globally available local installation services and support
- Bandwidth and capacity density reduces space, power, and cooling costs
- Enterprise-class scalability, resilience, and flexibility

About Signiant
Used by the world's top content creators and distributors, Signiant is the market leader in intelligent file movement software for the media and entertainment industry. For more information, visit *www.signiant.com*.

About NetApp
NetApp creates innovative storage and data management solutions that deliver outstanding cost efficiency and accelerate business breakthroughs. Discover our passion for helping companies around the world go further, faster at *www.netapp.com*.

Go further, faster®

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