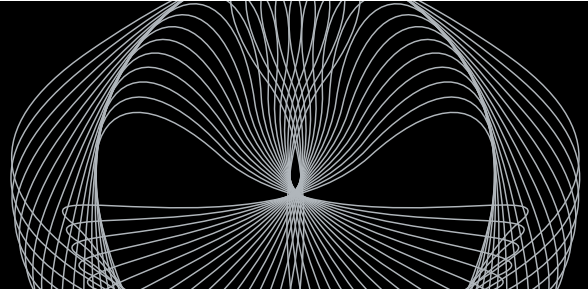


Wide Area File & Content Delivery Solutions



Challenge

Enterprises across industries share a common problem: storing and delivering file-based data over standard IP networks. With progressively more data to store and distribute to remote locations, companies need a reliable, easy-to-use storage foundation that scales to meet the peak delivery demands placed on any IP network while connecting users in remote offices and data centers to the information they need.

Today, high-speed delivery of file-based data such as video and images becomes especially challenging when faced with the limitations of storage architectures and network transfer technologies, such as FTP, which is highly unpredictable and performs poorly across high-latency or high-loss links.

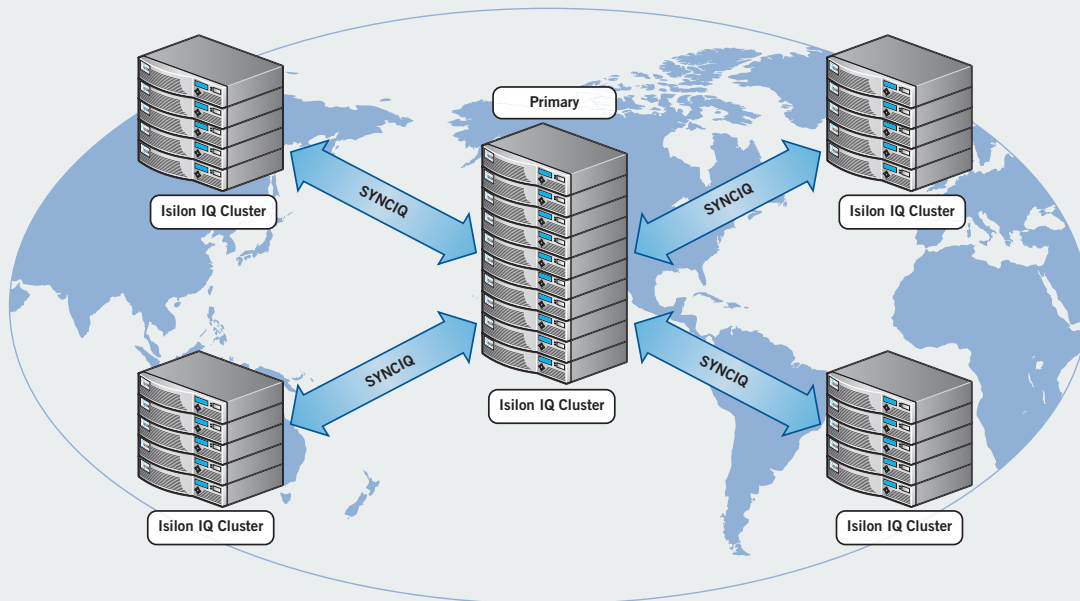
Many of the file-based data delivery problems enterprises face today are not caused by limitations in the network—but by the storage systems and delivery tools used to transfer files across IP networks. As a result, the new challenge for customers is how to get high levels of concurrent throughput—plus predictable scaling and performance—from the storage solution that represents the cornerstone for efficient data transfers across the network today.

Solution

Unlike traditional storage systems, Isilon IQ® is capable of storing more than two petabytes of data in a single file system, enabling scalable, high-speed file and content delivery across any IP network. As more content is delivered directly to end-users or partner companies, Isilon makes it easy to accelerate performance and capacity in increments that scale with the organization's changing usage demands.

Isilon clustered storage is also the only storage solution specifically designed for delivering large and growing file sets and content, from a single pool of storage. Isilon represents the foundation for the only content delivery system that delivers the high performance to meet the video, audio, and large file transfer needs of companies building products for the Internet, Web 2.0, as well as the direct delivery of content to downstream users.

Isilon IQ is ideal for site-to-site delivery of content over any IP network, distributed delivery of content to remote offices or caching points, and centralized delivery of content directly to end users.



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Key Benefits

Single File System, Single Point of Management

Because all files and content are stored in a single, logical pool—a single file system called OneFS®—users no longer have to manually partition or manage data sets across silos of servers and storage. All files can be stored and served from a single, centralized pool. To add storage to the pool, simply add nodes to the cluster. If a file or directory is added to the file system, the same files and directories are available across all nodes in the cluster to receive and deliver content.

Industry Leading Scalability—up to 2.3 PB in a Single File System

Isilon IQ clustered storage easily scales performance and capacity, independently, as content delivery scalability needs shift based on peak and off-peak usage periods. Adding performance or capacity is simply a matter of adding nodes to the cluster and automatically rebalancing capacity across the cluster. Capacity and performance can be added without any impact to data availability.

High-Performance

Isilon IQ supports both single-stream and concurrent-stream performance scenarios—up to 20 GB/second throughput and up to 2.3 petabytes of storage in a single cluster. Isilon IQ addresses the full spectrum of content delivery and storage needs, from small projects requiring less bandwidth to the highest performance content delivery networks. As the cluster grows, performance grows. As more cluster nodes are added, file access is distributed seamlessly among all nodes. Each node contributes to the aggregate CPU, cache and network throughput. Isilon SmartConnect zones can also be created to devote raw performance to individual projects and to support concurrent inbound and outbound projects serving multiple points. This makes it easy to use a single cluster to serve multiple projects, where each project has unique or dedicated performance requirements.

In addition, Isilon IQ Accelerator-x platform extension nodes enable single stream performance of up to 400 MB/second, concurrent performance of up to 700 MB/second and delivery of over 26,000 transaction I/Ops.

Easy to Manage

Powered by OneFS, the Isilon IQ family of products creates a single pool of expandable storage that is easy to install and grow. Once racked, a 10, 50 or 100+ terabyte cluster takes less than 10 minutes to setup and configure. Capacity can be added on the fly in seconds, with no downtime. This enables novice users with basic systems knowledge to setup even the largest cluster.

Data Synchronization

Using SyncIQ™, customers can synchronize data from one Isilon cluster with one or more other Isilon clusters, in support of cascading replication or remote caching over high-speed IP networks. A synchronization job can be distributed across multiple nodes in the cluster to ensure a maximum number of resources are employed to move files from cluster to cluster. Conversely, jobs can be throttled back to minimize the impact to the cluster or network, depending on the usage period.

Isilon Clustered Storage

- Reduces storage costs
- Increases IT operating leverage
- Speeds workflows
- Unlocks new revenues
- Complementary

Related Products

Isilon IQ Platform Nodes

The Isilon IQ 1920, 3000, 6000, 9000 and 12000 platform node systems use standard Gigabit Ethernet for front-end connections and offer the option of Gigabit Ethernet or high-performance, low-latency InfiniBand® for intracluster communication at no additional charge.

Operating System—OneFS®

OneFS is the fifth generation of Isilon's operating system software that provides the intelligence behind all Isilon clustered storage systems. It combines the three layers of traditional storage architectures—file system, volume manager and RAID—into one unified software layer, creating a single intelligent file system that spans all nodes within a cluster.

SyncIQ™

Enterprises increasingly need to distribute large, mission-critical data sets to multiple shared storage systems and teams in multiple locations. SyncIQ replication software is the industry's only policy-based file replication system designed exclusively for clustered storage, combining a rich set of policies for creating and scheduling storage replication jobs with innovative bandwidth throttling and cluster utilization capabilities.

Customer Success

Kodak EasyShare Gallery Kodak EasyShare Gallery combines intelligent organization and sophisticated picture sharing into a single, innovative online service. Kodak EasyShare Gallery selected Isilon IQ clustered storage systems to simplify their storage architecture and respond to their rapidly expanding customer base and ever growing image resolutions.

“At Kodak EasyShare Gallery, our customers trust us to safeguard their pictures and we use Isilon IQ to help us do that. The simplicity and performance Isilon IQ offers is fantastic and it is a great tribute to Isilon's ease of use that we have added hundreds of terabytes of capacity while only adding one junior level administrator, which would not have been possible with our legacy systems.”

**—Sonja Erickson, VP of Technical Operations
for Kodak EasyShare Gallery**



XM Satellite Radio, the nation's leading satellite radio service with more than 7.6 million subscribers, is using Isilon IQ as the primary storage platform to help power its broadcast operations. XM Satellite Radio has deployed Isilon IQ to support the creation, management, delivery and archival needs of its entire catalog of entertainment content.

“Our immense content delivery operations—creating significant growth of our storage capacity needs—necessitate a storage solution that provides unparalleled simplicity and scalability to ensure our critical media content is immediately available, at all times. Isilon clustered storage delivered above and beyond what we required.”

—John Archer, VP of Operations, XM Satellite Radio



NASA's World Wind project is an online application that lets site users zoom from satellite altitude into any place on Earth. Leveraging Landsat satellite imagery and Shuttle Radar Topography Mission data, World Wind lets users experience Earth terrain in visually rich 3D. With Isilon IQ, NASA World Wind consolidated its massive collection of Landsat 7 satellite images into one, single global namespace, simplifying its workflow and enabling immediate, 24x7 access for fast, online delivery.

“By using a vast collection of processed satellite imagery, NASA World Wind enables anyone with Internet access to experience anyplace on Earth as if they were really there. To ensure that our online user's experience is seamless and compelling, we require storage that delivers high concurrent performance for processing the raw satellite data, as well as immediate, reliable access for fast online delivery.”

—Patrick Hogan, Project Manager, NASA World Wind

Isilon IQ Clustered Storage

The Isilon IQ family of clustered storage systems was designed from the ground up to meet the needs of data-intensive enterprises and high-performance computing environments. By combining Isilon's OneFS® operating system software with the latest advances in industry-standard hardware, Isilon delivers modular, pay-as-you-grow, enterprise-class clustered storage systems.

- Powered by OneFS operating system software, distributed file system creates a single, shared global namespace
- First and only truly symmetrical clustered storage architecture
- System can scale from 4TB–2.3PB in a single file system
- Unmatched aggregate throughput from a single file system with up to 20 GB/second
- Single stream performance of more than 400 MB/second, concurrent performance of 700 MB/second and over 26,000 transaction I/Ops
- Industry leading, high availability for clustered storage systems
- Powerful, easy-to-use Web-based management
- 60-second scaling of both capacity and performance
- Built-in, automatic application/client connection load balancing
- Industry-standard protocol support (NFS, CIFS, HTTP, FTP, NDMP, SNMP, LDAP, ADS, NIS)



About Isilon Systems

Isilon Systems is the worldwide leader in clustered storage systems and software for file-based data, enabling enterprises to transform data into information—and information into breakthroughs. Isilon's award-winning family of IQ clustered storage systems combines Isilon's OneFS operating system software with the latest advances in industry-standard hardware to deliver modular, pay-as-you-grow, enterprise-class storage systems. Isilon's clustered storage solutions speed access to critical business information while dramatically reducing the cost and complexity of storing it.

The evolution of storage is clustered storage built on a powerful, open operating system with unique software that lets you pay-as-you-grow. Visit www.isilon.com/contact to get started—and see why clustered storage is paying off for some of the biggest and most respected names in the world.

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