



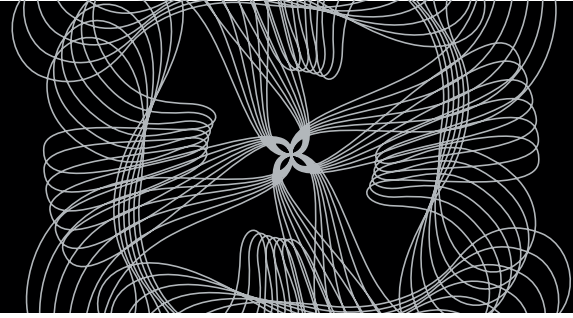
How breakthroughs begin.™



Enterprise Solutions

Isilon IQ® Clustered Storage and Omnibus iTX

Higher Reliability, Scalability and Performance for Broadcast Automation and Playout Systems.



Challenge

The television and broadcast industry is currently witnessing an unprecedented influx of digital content, necessitating new and more effective approaches to the use of IT and storage resources to meet the demands. As both the sheer volume and the strategic business value of this content continues to rise, broadcast organizations require a higher level of performance, reliability and scalability for storing and managing digital media. Customers also need to minimize overall cost of ownership, and ensure that critical business content is always secure and always available.

Solution

OmniBus iTX is a revolutionary, next-generation software-based broadcast production and transmission solution that uses standard IT hardware and advanced software technology. This powerful system builds on OmniBus Systems' high-end automation expertise to deliver ingest, editing and content management while acting as a video server, master controller, graphics device and logo inserter.

Through the seamless integration of Omnibus iTX with Isilon's IQ clustered storage systems, broadcasters gain a highly scalable, secure, high performance system for competitive broadcasting in a world of multiple distribution channels, formats and consumption models.

Massive Scalability

Omnibus iTX uses a standard, off-the-shelf configuration of IT servers and network equipment along with Isilon IQ clustered storage to hold growing stores of content in a single, common storage pool. Isilon IQ is the industry's first and only storage system that can scale up to 1.6 petabytes of capacity in a single file system and single volume.

Powered by OneFS operating system software, 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 only minutes to configure and set up, and capacity can be added on the fly in less than 60 seconds with no downtime.

Both Omnibus iTX and Isilon IQ are based on a distributed architecture, allowing both systems to scale independently or in tandem, providing a pay-as-you-grow model while minimizing management overhead.

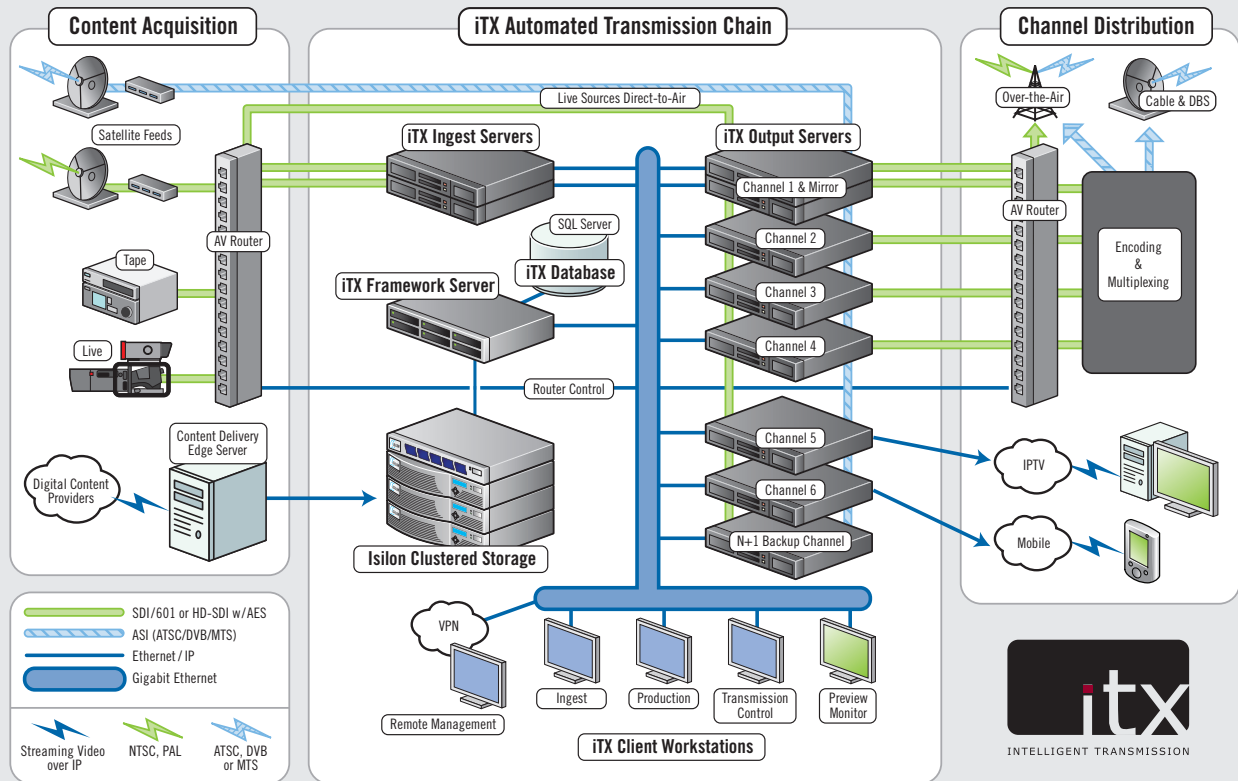
Industry-Leading Performance

Isilon IQ accelerates access to content across the entire iTX transmission workflow, delivering up to 10 GB/second of performance in a single file system and single volume – 20X the performance of traditional SAN and NAS storage systems. With the release of the X-Series, Isilon has increased performance for data write and random access by up to 60 percent over its previous systems. Leveraging Isilon's OneFS operating system software combined with new, high-performance hardware, which utilizes the latest generation of Intel architecture, Isilon's X-Series delivers instant and unfettered access to large and rapidly growing stores of digital content and unstructured data.

Reliable

Once stored on Isilon IQ, high-value digital content is automatically protected across the entire cluster using all available resources. In the event of multiple drive or node malfunctions – up to four simultaneous node failures – N+4 protection ensures that all data remains 100% available and is rebuilt to any free space throughout the cluster. Capacity is not lost to “recovery drives” and failed drives can be rebuilt in less than one hour.

Isilon IQ[®] Clustered Storage and Omnibus iTX



Isilon IQ clustered storage systems, in conjunction with Omnibus iTX broadcast automation systems, deliver a groundbreaking IT-based broadcast automation and playout solution.

Omnibus iTX and Isilon IQ Integration

The iTX solution consists of a standard, off-the-shelf configuration of IT servers and network equipment, along with Isilon IQ clustered storage to hold recorded content. A standard iTX system consists of:

- A 1RU Output Server for each channel – Each Output Server contains all the software for schedule automation, video/audio processing and the caching of content files from Isilon IQ.
- A 3RU server to host the database and core services – This server deals with content registration, traffic interface and the storage of content metadata.
- Isilon IQ clustered storage for digital content files and channel schedules.
- The iTX Framework Server throughput can be scaled by adding separate Media Watcher servers to provide more content to a growing list of Output Servers.

All components are connected by a gigabit Ethernet LAN and controlled by one or more client workstations. As the need arises, each of these components can grow independently to meet growing demands, such as additional ingest streams, playout streams, or storage capacity.

About Isilon IQ

Powered by OneFS[®], Isilon IQ delivers the industry's first single file system that unifies and provides instant and ubiquitous access to rapidly growing stores of data, eliminating the cost and complexity barriers of traditional storage architectures. OneFS is a unified operating system software layer that powers all of Isilon's award-winning IQ family of clustered storage systems including the IQ 1920, 3000, 6000, 9000 and 12000 platform nodes, the EX 6000, EX 9000, EX 12000 extension nodes, and IQ Accelerator extension nodes. In addition, Isilon's unique TrueScale[™] technology provides the ability to scale both system performance and capacity linearly or independently based on application or workflow needs.

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