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TITLE
Adaptive and Media-Centric Storage for

ABSTRACT

The evolution of tapeless workflows is creating new challenges for disk-based storage. A tapeless workflow encompasses all aspects of media production, including ingest, non-linear editing, and playout. At the center of a tapeless workflow, the disk-based storage is required to address the following challenges:

- Handle small metadata files and large media files equally well. Most storage systems are either designed for small file space efficiency or large file real-time performance, but not both.
- Provide good performance for both random access of metadata and real-time streaming of media files. Storage arrays are typically used to provide high IOPS (I/Os per second) for random access, while purpose-built broadcast storage is for high real-time throughput.
- Meet today's capacity, performance, and budget needs while providing the scalability for tomorrow's growth

Due to these challenges, the current storage infrastructure for a tapeless workflow consists of multiple storage classes, storage tiers, and storage islands, each addressing one specific aspect of the workflow. This storage infrastructure complexity increases both the capital acquisition cost and operational expense. To truly realize the promise of a tapeless workflow, the media-rich industry needs a new generation of storage – adaptive media-centric storage – that is designed for media applications and can address all aspects of the digital workflow. An adaptive media-centric storage holds the promise of unifying and simplifying the storage infrastructure for a tapeless workflow, reducing costs and enabling rapid deployment of new revenue-generating applications.

BIOGRAPHY

Bang Chang is currently the Vice President of Storage Products at SeaChange, where he has brought many products to market since 2006. Prior to joining SeaChange, Bang worked as a director of strategic planning on strategic acquisitions and next-generation products for a well-known technology company. Bang has a MBA from Duke University and an MS in Computer Engineering from North Carolina State University.