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TITLE

Hardware Visions For Ubiquitous Long-term Archival Storage

ABSTRACT

Data growth is a constant, with more and more digital content requiring long-term regulatory-compliant retention and preservation. Storage technology choices abound, yet the critical value of any deep data archive is the ability to retrieve archival data over time, in many cases, tens of years from initial ingestion. Many factors other than environmental and physical/digital security are critical to longevity, including bit rot, data immutability, backward-compatible device availability, and ultimately the choice of media.

In this presentation we will focus on the base-media aspect as well as advancements in optical disc drive technology leveraging multiplexed lasers, to compare and contrast currently available solutions leveraging magnetic hard disk drives, magnetic tape and optical disc solutions. Our goal is to clearly demonstrate how write-once, ready-many (WORM) based optical disc technology is a superior long-term (10+ years) media option when compared to alternative solutions in terms of overall cost, reliability and long-term retrievability.

BIOGRAPHY

An archival data storage industry veteran with a proven track record in opening new markets and bringing innovative storage solutions from concept to profitable viability. Supported advancement of storage management industry standards thru past memberships in AIIM, IACP, IEEE, ISACA, NAB, OSTA, SMPTE, SNIA and many others, with a career spanning over 25+years that includes Business Development Director, Solutions Architect, OEM & Distribution Sales Management, Marketing Director, Director of Product Management, Technical Support Manager, Sales Engineer and IT Director.