The Challenges of Cloud Archive and Preservation - Moving and Retaining Your Digital Information over the Long Term

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Cleversafe, Inc.

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Chris Marsh  
Spectra Logic

Thomas Rivera  
BlueArc
Cleversafe Corporate Overview

Chad Thibodeau
Director of Product Management & Alliances
Cleversafe Overview

• Founded in 2004
• Privately funded (Alsop-Louie; New Enterprise Associates, Motorola Ventures, OCA Ventures, Presidio)
• 60 employees located in Chicago; Federal office in VA; Sales office in CO
• Provide limitless scale data storage systems
  • Petabytes to Exabytes to Zettabytes
  • Most Reliable, Secure and Cost-Efficient
• Multiple commercial deployments
  • Social media, financial services, media & entertainment, health care
• Technology Leader
  • Multiple Industry Awards: Wall Street Journal, Business Week, etc.
  • Innovation Leader: fastest growing new storage patent portfolio
How Cleversafe Works

Cleversafe slices and scrambles data using Information Dispersal Algorithms

Cleversafe distributes the slices to separate disks, storage nodes and geographic locations

Even with individual servers or entire sites down, Cleversafe delivers real time bit perfect data retrieval from a subset of the data slices
Spectra Logic Corporation
Corporate Overview

Chris Marsh
IT Market and Partner Manager
32 Years of Success

- Proven Innovator and History of Success
  - Founded in 1979, self-funded, profitable, debt-free growth
  - Intelligent integration of complete data protection solutions
  - Highest customer satisfaction & support ratings in the industry

- Gold Standard Manufacturer in Tape Innovation

- Manufacturing in Boulder, Colorado
Worldwide Markets

- Leader in data intensive verticals:
  - HPC, M&E, Federal and Financial
  - Requires true enterprise solutions

- Enterprise R&D flows over to mid-market and department level products

- Financial Stability:
  - Profitable year over year
  - 100% Debt Free
  - 31% year over year growth!
BlueArc Corporate Overview

Thomas Rivera
Sr. Technical Associate
BlueArc

- Developer of Highly Scalable NAS Systems
- Scalability in **Capacity** – to multiple PBs
- Scalability in **Performance** – to many 1000’s of IOPS and many GB/s of Throughput – all in a single system
BlueArc: Scale Right Storage

- **Scale up**
  Performance leadership

- **Scale out**
  Up to 8-node cluster and 16PB capacity

- **Scale deep**
  Virtualize 3rd party NAS as NFS targets
IMERGE Consulting Overview
Independent Advisory Consultant & Industry Analyst
Don Post, CDIA+, ICP, ERMp
Partner & Owner

SNIA Long-Term Retention TWG
SNIA Cloud Archive & Preservation SIG
IEEE Computer Society - Mass Storage & Systems Technology
Society of American Archivists – Records Round Table
Chair, AIIM 2005 Conference, TAWPI 2006 Conference
Member: AIIM, ARMA, NAGARA, SAA
BS Electrical Engineering, MBA
We are Business ARCH·i·TECHs
“Bridging the Gap between Process & Technology”

- Requirements and business case
- Records policies & procedures
- Business process optimization
- System functional design/configuration
- Implementation oversight
- Process and system audit

IMERGE Consulting
Helping You Work Better, Faster, Smarter™
Enterprise Info Mgmt of All Types

**ECM Initiative:**
- ECM Content Types, Metadata, Formats, Objects

**RM Initiative:**
- Records Classes and Policies

- Mapping Needed To Move into RM

**Digital Records Repositories**

- Records Management Program

- Records Retention & Disposition Rules

- Risk Management, eDiscovery, Legal Holds

**Information Management Governance and Policy**

- Data, Document & Records Storage – “SNIA 100 Year Archive”
Something to Ponder...
Digital information is in jeopardy: it is likely that in 35 years that 50% of critical info will be unavailable.
% of “Permanent” eRecords in 2010 that Will Likely Still Be Usable in Future Years:

Reasons:
- Inadequate EDRMS
- Policy & process issues
- Technology Issues

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