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TITLE: Approaches to Media and Entertainment Digital Preservation

ABSTRACT

The Media & Entertainment industries have been moving to the fully-digitized world, where conventional media such as videotape and chemical film are replaced with “files” on computer. Since the M&E industries want larger storage space than others, a removable medium such as Tape is expected again as data storage for TCO saving. Through studies with M&E companies, we learned there are four requirements in the use of removable media as the M&E storage; portability, availability, performance and migration. Through recent discussions with IT companies on those requirements from IT architecture view point, four technical concerns were picked out; the number of media, migration cycle continuity, band-width and media type awareness. At present, many associations including SNIA study the long term digital preservation, where the very important two keywords are frequently referred; Self-Describing and Self-Contained. In this session, it is presented how those keywords work in the new IT architecture to address the above requirements and concerns.

BIOGRAPHY

Shinobu Fujihara is leading the IBM Virtual Tape Server Management Interface development as software architect. The IBM Virtual Tape Server provides virtual image of tapes from hybrid storage pools, where tape pool is one of them and has the largest capacity in general. Since its nature, a tape is referred as medium for the long term digital preservation, so that he has been involved in many discussions especially on requirements of Media & Entertainment industries from 2006 based on his career in storage technologies, which started in 1984. His designs have been shipped in IBM Hard Disk Drives, IBM RAID Disk Subsystems and Virtual Tape Servers from firmware to storage management software. With his knowledge of storage technologies, he has been contributing to technology associations; SNIA, JEITA (Japan Electronics & Information Technology Industries Association) and ITE (The Institute of Image Information and Television Engineers). Especially as his SNIA global activities, he contributes to SNIA Japan as chair of Technology Committee, into which major Japanese storage vendors are organized.