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TITLE

AXF: Finally a Storage and Preservation Standard for the Ages

ABSTRACT

Rather than rely on archaic or proprietary approaches, recent domain-specific advancements in the area of open standards based, long-term data storage have been made helping ensure long-term preservation and universal accessibility for valuable file-based assets and collections.

This presentation will give a detailed technical overview of the recently published SMPTE Archive eXchange Format (AXF) standard. Born out of the Big Data-centric pedigree of the Media and Entertainment industry, AXF is applicable to all aspects of file-based asset preservation now and into the future. In sharp contrast to other approaches such as TAR and LTFS, AXF was designed from the ground up with the goals of asset transport as well as long-term storage and preservation. AXF future-proofs digital content repositories by embracing key OAIS preservation philosophies and abstracting the underlying operating system, file system and storage technology so that content remains available no matter how each evolves.

A history of the development of AXF highlighting its recent standardization will be given along with a detailed overview of the technology and its key features as contrasted with other non-standard approaches such as LTFS. End-user success stories will focus attention on the key features of the AXF standard and how it can be leveraged to ensure open access, long-term protection, and transportability of file-based asset and collections now and into the future.

BIOGRAPHY

Brian Campanotti is the Chief Technical Officer for Front Porch Digital, leading industry invention and advancement in cloud-based and on-premises global content storage management (CSM), media asset management (MAM) and content publishing, migration and preservation solutions. He is responsible for innovations in the area of cloud-based solutions for “big data” focused on media-centric content handling, delivery, storage and preservation. He was one of the primary inventors of the Archive eXchange Format (AXF) and has been active in standards body activities helping to promote innovation and openness in the industry for more than two decades.

Mr. Campanotti and his team have won Emmy® Awards for their work in content collection preservation technologies and for innovation in serial digital video technology. Mr. Campanotti has founded several start-ups and began his career at the Canadian Broadcasting Corporation (CBC) in Canada and holds a degree in Electrical Engineering from the University of Toronto.