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AN ENTERTAINMENT STORAGE ALLIANCE™ EVENT



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TITLE

Archive eXchange Format – A Universal Archiving Solution

ABSTRACT

The Archive eXchange Format (AXF) is designed for interchange of media and interoperability between archive systems from different sources. Among its features are:

- Designed for Operational Storage, Transport, & Long-Term Preservation
- Creates Objects, Grouping Files & Metadata in Self-Contained & Self-Describing Packages
- Unlimited File Sizes, Unlimited Numbers of Files of Any Type (not just media files) in Objects
- Unlimited Sizes of Objects; Unconstrained by Media Size through Use of Media Spanning
- Stores All Types of Data on All Types of Media – Not Just Data Tapes – With & Without File Systems
- Facilitates Remote Storage Including “Cloud” Solutions
- Enables Updating of Object Content (including Metadata) Without Loss of Earlier Content, through Versioning
- Stores Preservation Information (per OAIS)
- Provides Resilient Structures through Use of Redundant Data & Cryptographic Hash Algorithms
- Achieves Maximum Speed to/from Media through use of Streaming
- Abstracts Storage from Media, Operating Systems, File Systems, and Applications
- Includes Light-Weight File System within Objects, Establishing File and Folder Hierarchy
- Field-Proven through Widespread Deployment in Both Media & Non-Media Applications

BIOGRAPHY

S. Merrill Weiss is president of the Merrill Weiss Group, LLC, a consultancy in electronic media technology and technology management. He has worked in the area of standardization of digital technologies for over 37 years and has chaired many committees in ATSC and SMPTE during most of that time. Weiss has presented well over 100 papers at numerous conferences. He was the recipient of the David Sarnoff Gold Medal Award and of the Progress Medal from SMPTE. He received the Bernard Lechner Outstanding Contributor Award from ATSC and the NAB Television Engineering Achievement Award. He also received the Matti S. Siukola Award twice from the IEEE Broadcast Technology Society. Weiss is a graduate of the Wharton School of the University of Pennsylvania.