



SANTOS



ROHALY

ERNESTO SANTOS is co-founder and head of marketing and sales at MOG Solutions, a leading provider of MXF-based solutions. Santos recently served as Chair of SMPTE W25.10, the MXF Implementers Working Group. Santos was also active in the development of MPEG-7 and MPEG-21. He currently works closely with partner companies around the world, setting up projects and new products that are taking IT to the next level in the professional media market.

ANN MARIE ROHALY is a senior program manager in the Entertainment and Devices Division at Microsoft, responsible for media standards and interoperability. Rohaly has been an active participant in the International Telecommunication Union (ITU), serving as editor-in-chief of the Video Quality Experts Group's Phase I Final Report on the Validation of Objective Models of Video Quality Assessment. More recently, she played a lead role in the standardization of VC-1 as SMPTE 421M and served as Chair of the former C24-10 VC-1 Implementers Working Group.

File Structures (31FS)

Chair: Ernesto Santos
Co-chair: Ann Marie Rohaly

The Technical Committee on File Structures (31FS) addresses the definition of common wrapper structures for storage, transmission, and use in the carriage of all forms of digital content components. Digital Picture eXchange (DPX), General eXchange Format (GXF), Material eXchange Format (MXF), Advanced Authoring Format (AAF), and extensible Markup Language (XML) are examples of the technologies that provide the foundation for the work developed in this committee, including maintenance of related SMPTE specifications and development of new standards based on input from the field. Current projects in progress include those listed:

Revision of SMPTE 377M (MXF File Format) (Höntschi), SMPTE 379M (MXF Generic Essence Container) (Brunhoff), and SMPTE 381M (MPEG Mapping in MXF) (Brunhoff)

Work in these projects comprises the clarification of text without changing technical meaning and further definition of constraints of existing provisions to promote interoperability, while clearly defining the expected behavior of decoders when handling legacy files compliant with the previous version of these MXF related standards.

Amendment of SMPTE 422M (JPEG 2000 Mapping in MXF) (Wilkinson)

Minor technical adjustments are being applied to the text of this standard, based on input received from the field, as digital cinema and television applications using this specification roll out.

Carriage of Event-Oriented Essence in MXF (Tudor)

Standard mechanisms are being defined for the carriage of event-oriented Essence in MXF. Examples of such Essence are W3C Timed Text data, selected subtitle formats, and application data such as Multimedia Home Platform (MHP).

Description of Multichannel Audio in MXF (Morgan)

Definition of standard mechanisms for the identification of audio channels and related metadata accommodation, in scenarios in which multichannel audio is conveyed using the MXF file format. Both television and digital cinema applications are being considered as sources of requirements.

MXF KLV Encoded Extension Syntax (Devlin)

Building on the KLV structure of SMPTE 377M-2004, this project is intended to provide additional extension definitions by rigorous KLV encoding of a dictionary and meta-dictionary with clear identification of legacy behavior.

AAF Object Model Specification (Tudor)

In the scope of this project, the AAF data model is being documented as a proposed SMPTE standard. This work item includes the definition of AAF classes for interchanging metadata and essence, the definition of AAF dictionary metadata classes, and the definition of AAF meta-dictionary data structures, as well as associated rules for defining valid data models.

XML Representation of SMPTE Registered Data (Tudor)

Definition of a standardized XML-based format for representation of instances of SMPTE registered data and other user data. The format is intended as a data interchange format between systems and will be suitable for a wide range of data and data models.