

Material eXchange Format (MXF)

Programme

20-21 January 2010
EBU, Geneva, Switzerland

Master class

Overall outcome of the course:

- Understand what MXF is, where it comes from, how it works, what problems it addresses.
- Get up to speed with MXF technology, including its physical structure, metadata, essence and operational patterns.
- Understand how MXF can be applied, identify crucial interoperability issues and map the information to your experience.

Trainer:

Pedro Ferreira
MOG Solutions, Portugal



Wednesday 20 January

09.00 – 12.30 MXF Conceptual Overview

Objective:

To provide a high level overview of the MXF specification.

Specification

- What is MXF?
- MXF History
- User Requirements
- MXF Architecture: Systems, Essence, Metadata and Document Organization
- MXF Logical Structure: Essence Tracks, Index Tables, Metadata Tracks, Packages and Identification
- Operational Patterns: Classification, Use cases, OPAtom
- Descriptive Metadata Scheme 1: Motivation, Frameworks, Interoperability
- MXF and XML: browsing, creating and updating MXF Files

Including coffee break

12.30 – 14.00 Lunch

14.00 – 17.30 MXF Technical Overview (part 1)

Objectives:

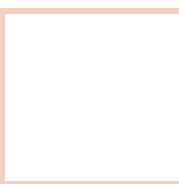
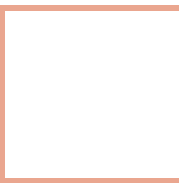
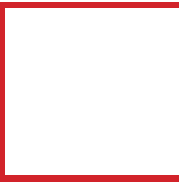
Distinguish the MXF file's physical structure from the logical structure. The discussion of the physical structure will present how the file is sectioned and why; and how each type of data is physically encoded in the file.

Introduction

MXF Physical Structure

- KLV Coding
- Partitions
- Multiplexing

Including coffee break



Thursday 21 January

09.00 – 12.30 MXF Technical Overview (part 2)

Metadata

- Framework
 - Elements and Sets
 - KLV Coding
 - Identification
 - Referencing
 - Tracking Changes
 - Metadata Repetition
- Structural Metadata
 - Packages and UMIDs (Material/Source/Physical Packages and Historical Metadata)
 - Linking to Essence
 - Descriptive Metadata Hooks

- DMS-1, Dark Metadata and Proprietary Schemes

Including coffee break

12.30 – 14.00 Lunch

14.00 – 17.30 MXF Technical Overview (part 3)

Essence

- Generic Container
- Currently standardized mappings
- Index Tables

Operational Patterns

Including coffee break

17.30 **Evaluation and end of the Master Class**



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Contact:

Nathalie Cordonnier
Project Manager
EBU TRAINING

L'Ancienne Route 17A
1218 Grand Saconnex GE
Switzerland

T +41 22 717 21 48
F +41 22 747 41 48
E cordonnier@ebu.ch

www.ebu.ch/training



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