

# IMF and DPP

Comparison of different animals

## Interoperable Master Format (IMF)

- Oriented toward content owners  
(Studios)

## Digital Production Partnership (DPP) U.K.

- Oriented toward broadcasters

## MXF File Wrapper

- Offshoot from DCP (Digital Cinema Package)
  - PKL (Packing List) for transporting files
  - CPL (Composition Play List) for combining essence track files
- Similar to AMWA AS-02
  - Package of files
- Uses AMWA AS-11
  - Constrained to the U.K. DPP shim
- Similar to AMWA AS-03
  - Audio and video in a single file

## Video Codec

- Application 2, JPEG2000
  - Variable Bit Rate profiles
- Application 3, MPEG4 Simple Studio Profile
- Future Applications...
- HD, AVC-Intra (H.264)
  - 100 Mb/sec
- SD, MPEG-2 (D-10)
  - 50 Mb/sec

## Frame Rates

- Flexible (based on MXF edit units)
  - Typically 23.976 frames progressive
- 50 fields interlaced

## Audio Channels

- Universal Labels based on channel names
  - Virtually unlimited (not numbered)
- Soundfield Groups
- Specified channel configurations
  - 4 or 16 channels

## Closed Captioning

- SMPTE-TT (Timed Text)
  - Optional additional 608/708 formatted data
- Separate file as required
  - Currently specified by broadcaster

### Program Material (misc.)

- Metadata markers for commercial breaks, etc.
- Versioning (new CPL)
  - Cuts-only EDL (Edit Decision List)
  - Supplemental packages
  - Add more audio languages when they become available
- Output Profile List (OPL)
  - Downstream processing
- May be segmented for interstitials
  - hard-parted programme
- Specified head-build and run-out
  - Countdown clock
  - IN and OUT points as metadata
- Audio loudness (EBU R128)
- Photo Sensitive Epilepsy (PSE) testing

