

HPA Tech Retreat 2012

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# Interoperable Master Format Update

# What a difference a year makes...

- 2011 Tech Retreat – all about USC ETC IMF effort
- February 2011 – ETC published IMF 1.0
- March 2011 – SMPTE IMF work begins
  - WG Chair – Annie Chang
  - No “rubber stamping” of input documents
  - Use cases
  - Document roadmap and framework
  - Worked on a lot of documents
- SMPTE version of IMF



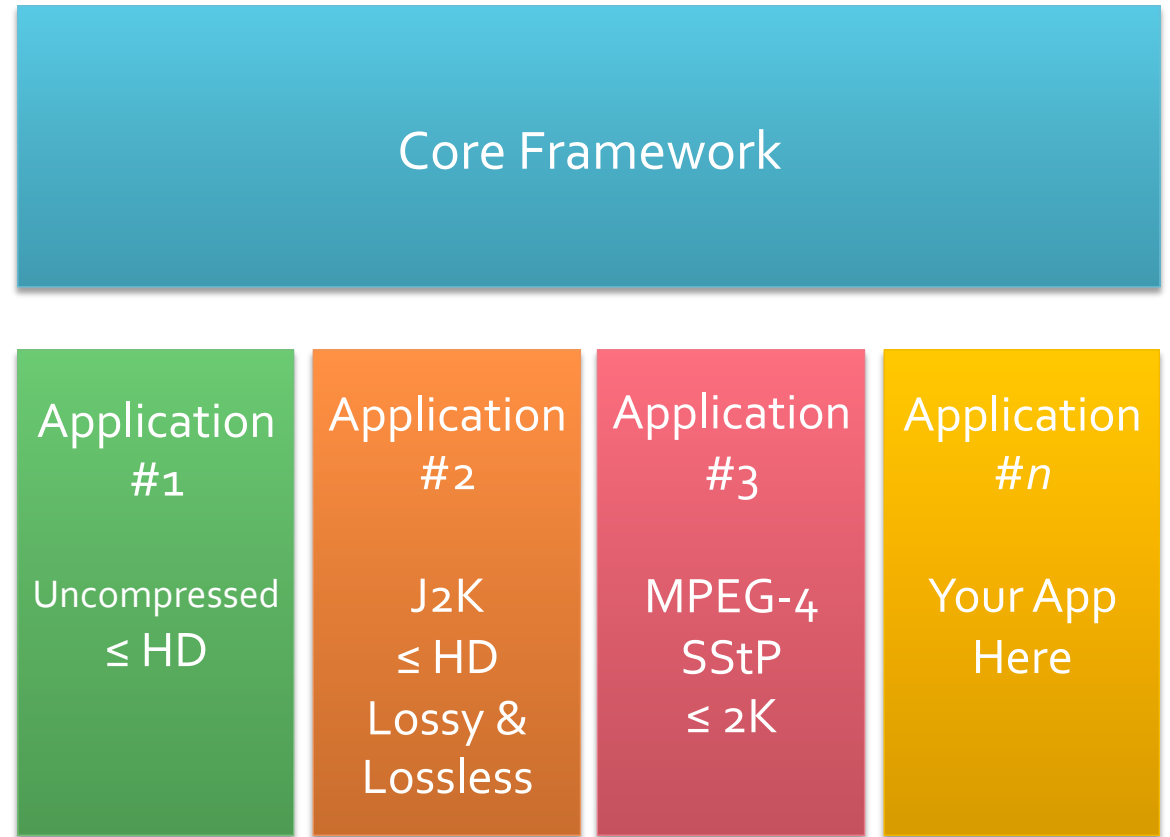
# IMF Key Concepts

- Components Wrapped into Track Files
  - Essence (Image & Audio)
  - Data Essence (Subtitles & Captioning)
  - Dynamic Metadata (Pan and Scan)
- Compositions and Composition Play Lists (CPL)
  - Creates versioning
  - Flexible hierarchy for combining and using Track Files
- Output Profile Lists (global output parameters)
- Packages
- Security

Image Codecs...

# Modular Approach

- Core Framework
  - Playlists
  - Wrapping
  - General Image, Audio and Subtitling Parameters
- Modular Applications
  - “Plug-in” to framework
  - Allow for specific functionality
    - Higher compressed CODECs
    - Specific resolutions or frame rates
    - Allows for different problems to be solved
  - Interoperable **within** an Application (but not necessarily between Applications)



# SMPTE Document Status

- Documents in “finalizing” state
  - Composition Play List
  - Wrapping
- WIP Documents
  - Audio
  - Data Essence (Subtitling and Captioning)
  - Application #2 – JPEG2000
  - Application #3 – MPEG-4 SStP
- Still Need to work on
  - Output Profile Lists
  - Packaging and Security
  - Other Applications
- Implementers Interchange
  - Before documents get to Draft Publication

**Moving Fast!**

# How to Get Involved

- Visit [www.imfforum.com](http://www.imfforum.com)
- Join the SMPTE Standards Community
  - <https://www.smpte.org/standards/engineering-committees>
  - Join 35PM Technology Committee
  - Join 35PM50 Working Group for IMF
- Thanks!