Report on
30MR SG UMID Applications

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Action

Meeting

Promotions

Bristol

Geneva

Burbank

Hong Kong

Info Gathering

UMID App. Conference

Intermediate report
- UMID app. principles
- Best practices

Final report
Future standardization
Activities since the Geneva

- Introduced at ABU TC Meeting @ Seoul
  - Relevant article on ABU Technical Review still not published yet

- Submitted report on “UMID Application Conference”
  - Exchanged about 20 messages for review online

- Contributed text fragment for the SG report
  - UMID Application Principles
  - Reference Implementation of UMID Application Principles
  - UMID Application Examples

- The SG report under integration

- Will submit the SG report to TC chairs within this year!
Proposed
“UMID Application Principles”(1/2)

- **Principle 1 (Definition)**

- **Principle 2 (UMID Creation)**
  - A UMID with a newly created Material Number together with zero Instance Number shall be attached to original Material at its entry to any UMID based material management system.

- **Principle 3 (UMID Integrity)**
  - Different Materials shall be globally uniquely identified by different UMIDs.

- **Principle 4 (UMID Identification)**
  - If more than one material is uniquely identified by a single UMID, their representations at playout shall be identical bit by bit on the timeline.
Proposed
“UMID Application Principles”(2/2)

- Principle 5 (UMID Inheritance)
  - Any Instance derived from an original Material may be attached with a UMID composed of Material Number inherited from that of the original Material together with the non-zero Instance Number.

- Principle 6 (Extended UMID)
  - Any Extended UMID attached to a Material Unit belonging to the same material shall share the same Basic UMID that uniquely identifies the material as a whole.

- Principle 7 (Source Pack)
  - The Source Pack should identify the time, space and ownership properties of the essence at its point of creation or capture. If present as a part of an Extended UMID, its values shall not be replaced with new ones when the basic part of its UMID is inherited.
Provided “Reference Implementation of UMID Application Principles”

- Demonstrated based on the concept “UMID Managed Domain”

Material 1, 2, 4 and 5 constitute “UMID Managed Domain”
Collected
“UMID Application Examples”

1. UMID application as a globally unique identifier
2. UMID Application as a linking tool
3. Simultaneous Multiple Material Creations for Offline/Online Edits
4. Abstract Original Material
5. Identical Materials
6. UMID for Growing Material
7. UMID based Material Search
8. UMID as a Common Material Identifier in a Best-of-Breed Media Production System
9. Globally Distributed Material Management
10. Loose Coupling between Application and Media Layers
Next Comes

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Final report
- Future standardization
Next Step

- **Intermediate SG report**
  - To be submitted to TC chairs within this year after further review
  - Hopefully to prepare for new activity if accepted

- **Final SG report**
  - To report relevant technologies that need to be further standardized to enhance the UMID applications
Thanks!