

# Proposal on Activities for UMID Applications

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# Thank you very much, SMPTE !

The screenshot shows the SMPTE website homepage. At the top, there is a navigation bar with links for Home, About SMPTE, Local Sections, News & Events, Education, Standards, Publications, Membership, and a Join button. The main content area features an article titled "Yoshiaki Shibata discusses UMID Applications in Practice" with a video player below it. The video player shows a slide titled "Conclusions" with three main points: UMID can be much more useful, MXF adopts UMID as its core component, and Needs standards to achieve it. To the right of the article are several promotional boxes: "Benefits of SMPTE Membership", "Holiday Discount!" for a book, "Happy Holidays!" with an Amazon link, and "Standards Update" for SMPTE ST 296:2011. On the far right, there is a vertical sidebar with an advertisement for Ensemble Designs, featuring a 5-year warranty and contact information.

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### Yoshiaki Shibata discusses UMID Applications in Practice

UMID is a SMPTE standard identifier that globally uniquely identifies an AV material. Because it is a core component of MXF and AAF, it has been also handled by the products claiming the MXF/AAF support. However, its originally intended use as a globally unique identifier to link AV material to its metadata has been seldom seen in practice.

This paper aims to achieve its original intention by introducing the concept "UMID managed domain" where all AV materials are fully managed via their UMIDs, resulting in any AV material to be unambiguously retrieved by its UMID. Another important aspect of the UMID managed domain is that the domains from various products can be merged to produce a wider domain covering the entire system. To achieve this, however, the UMID resolution protocol spoken among those products needs to be standardized, for which a couple of basic proposals are presented for further discussions.

In his paper, "UMID Applications in Practices," Yoshiaki Shibata introduced the concept, "UMID managed domain" in which all AV material are fully managed VIA their UMIDs. One important aspect of this system is that the domains from various products can be merged to produce a wider domain covering the entire system.

[See photos and read our blog here.](#) We hope to see you at next year's conference — 22 – 25 October 2012 — in Hollywood, CA.

### SMPTE 2011 Technical Session - File Based Workflows (Part 3)

#### Conclusions

- **UMID can be much more useful !**
  - Under appropriate common rules for its applications
- **MXF adopts UMID as its core component**
  - To be the media IT infrastructure for the file-based media system
- **Needs standards to achieve it !**
  - UMID Resolution Protocols
  - UMID Application Principles

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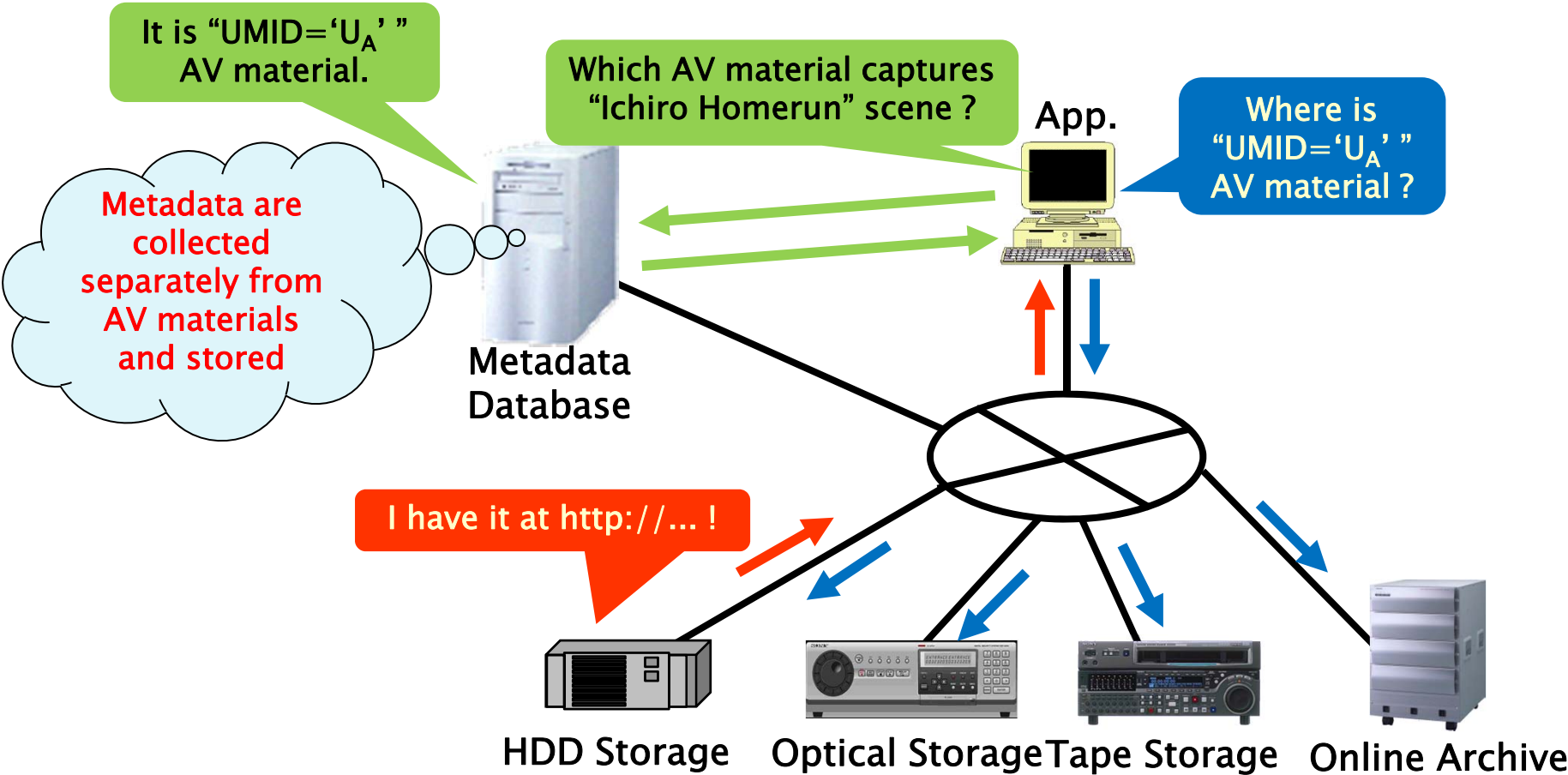
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# Ultimate Goal



# Ultimate Goal

## ***BUSINESS (APPLICATION) LAYER***

It is "UMID='U<sub>A</sub>'"  
AV material.

Which AV material captures  
"Ichiro Homerun" scene?

Where is  
"UMID='U<sub>A</sub>'"  
AV material?

Metadata are  
collected  
separately from  
AV materials  
and stored

Metadata  
Database

App.

**Loosely coupled by UMID resolution protocols**

I have it at <http://...>!

HDD Storage

Optical Storage

Tape Storage

Online Archive

## ***MEDIA (MANIPULATION) LAYER***

# Study of UMID Applications

## ▶ Project scope

- Establish the UMID application principles
- Identify the best practices of the UMID applications

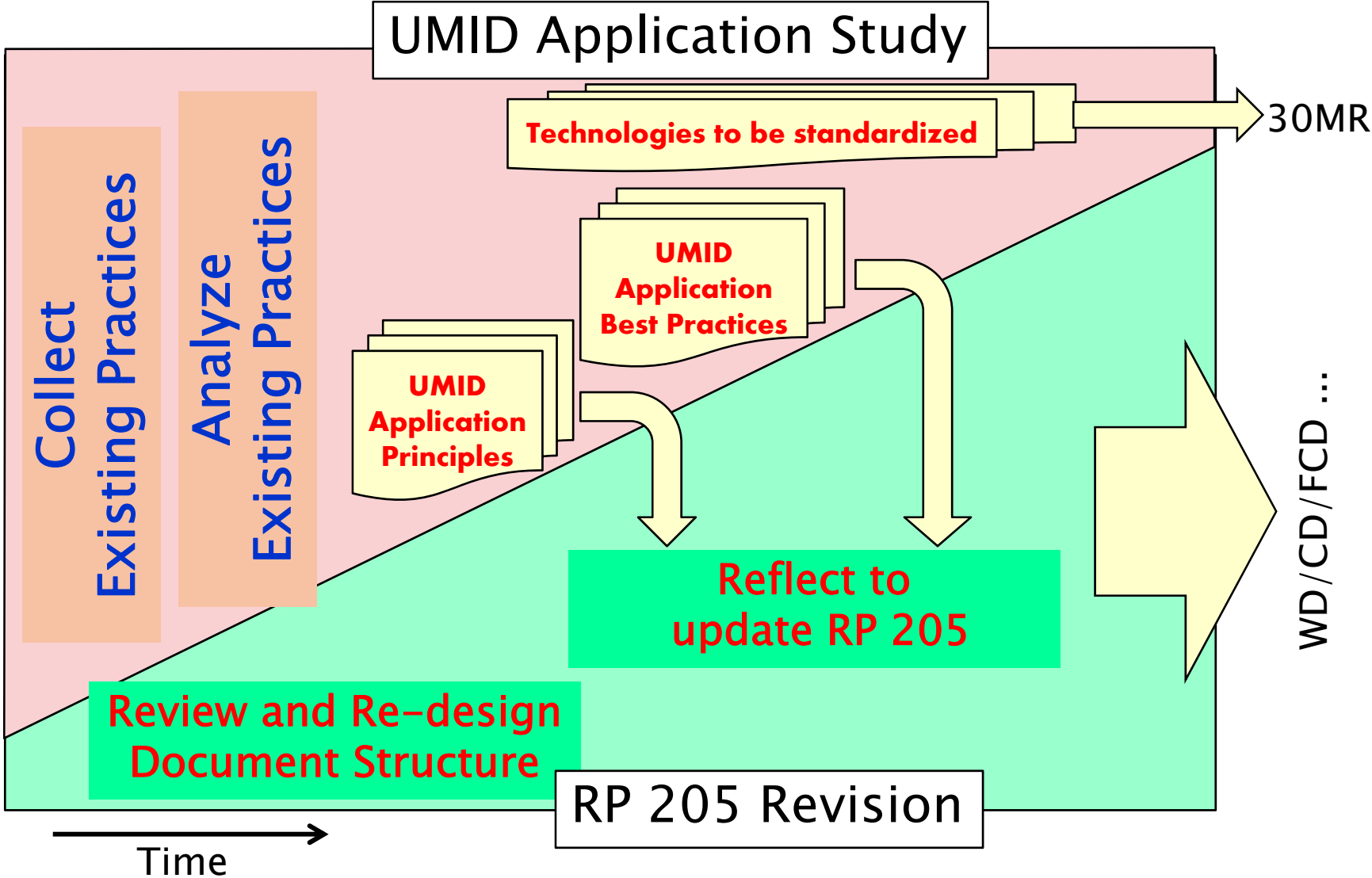
**For RP 205 update !**

- Identify relevant technologies that need to be additionally standardized

**Based on analyzing existing practices!**


**RP 205: “Application of Unique Material Identifiers in Production and Broadcast Environments”**

# How to Proceed?




# Work Statements

**SMPTE Engineering Work Statement**



Project name: Study of UMID Applications Reports to: 30MR Estimated Completion Date: 2013-03-31	Project type: <input type="checkbox"/> Working Group <input type="checkbox"/> Ad hoc Group <input checked="" type="checkbox"/> Study Group <input type="checkbox"/> Task Force
Project leadership names (and email addresses): Chair(s): Yoshiaki Shibata ( <a href="mailto:yoshi.shibata@metafrontier.jp">yoshi.shibata@metafrontier.jp</a> ) Proponents: metaFrontier.jp, Avid, MOG Solutions, Tokyo Broadcasting System Television, Inc. Secretary: Document editor(s): Jim Wilkinson ( <a href="mailto:jim@wilkinson.org">jim@wilkinson.org</a> )	
Problems to be solved: Current uses of the UMID have been largely limited within a particular product system despite its original intention for use as a globally unique audiovisual identifier across implementations from multiple vendors. This limitation has led to a lack of common rules for the UMID applications over these implementations.	
Project scope: - Establish the UMID application principles, the most fundamental rules every aware product must follow; - Identify the best practice of UMID applications; - Identify relevant technologies needed to be additionally standardized.	
Specific tasks: - Collect existing practices used in the industry for the application of the UMID; - Analyze the existing practices to identify the UMID application principles and the relevant technologies that need to be additionally standardized; - Identify and describe the best practices of the UMID applications; - Contribute to SMPTE RP 205:2009 Revision with the identified UMID application principles	

**SMPTE Engineering Work Statement**



Project name: SMPTE RP 205:2009 Revision Reports to: 30MR Estimated Completion Date: 2013-03-31	Project type: <input type="checkbox"/> Working Group <input checked="" type="checkbox"/> Ad hoc Group <input type="checkbox"/> Study Group <input type="checkbox"/> Task Force
Project leadership names (and email addresses): Chair(s): Yoshiaki Shibata ( <a href="mailto:yoshi.shibata@metafrontier.jp">yoshi.shibata@metafrontier.jp</a> ) Proponents: metaFrontier.jp, Avid, MOG Solutions, Tokyo Broadcasting System Television, Inc. Secretary: Document editor(s): Jim Wilkinson ( <a href="mailto:jim@wilkinson.org">jim@wilkinson.org</a> )	
Problems to be solved: The current RP 205 has been created based on the UMID study in the traditional VTR/SDI based linear environment, resulting in that some descriptions have become obsolete or inappropriate for the modern file-based media operations. Furthermore, its normative and informative statements are not clearly distinguished in the document.	
Project scope: - Specify the UMID application principles as normative statements; - Provide informative implementation guidelines to fully satisfy the principles; - Provide the best practice of UMID applications to be shared in the industry.	
Specific tasks: - Review the existing text to identify which parts need to be revised; - Re-design the document structure; - Specify the UMID application principles based on the contribution from the UMID application Study Group; - Describe implementation guidelines and the best practices of the UMID	