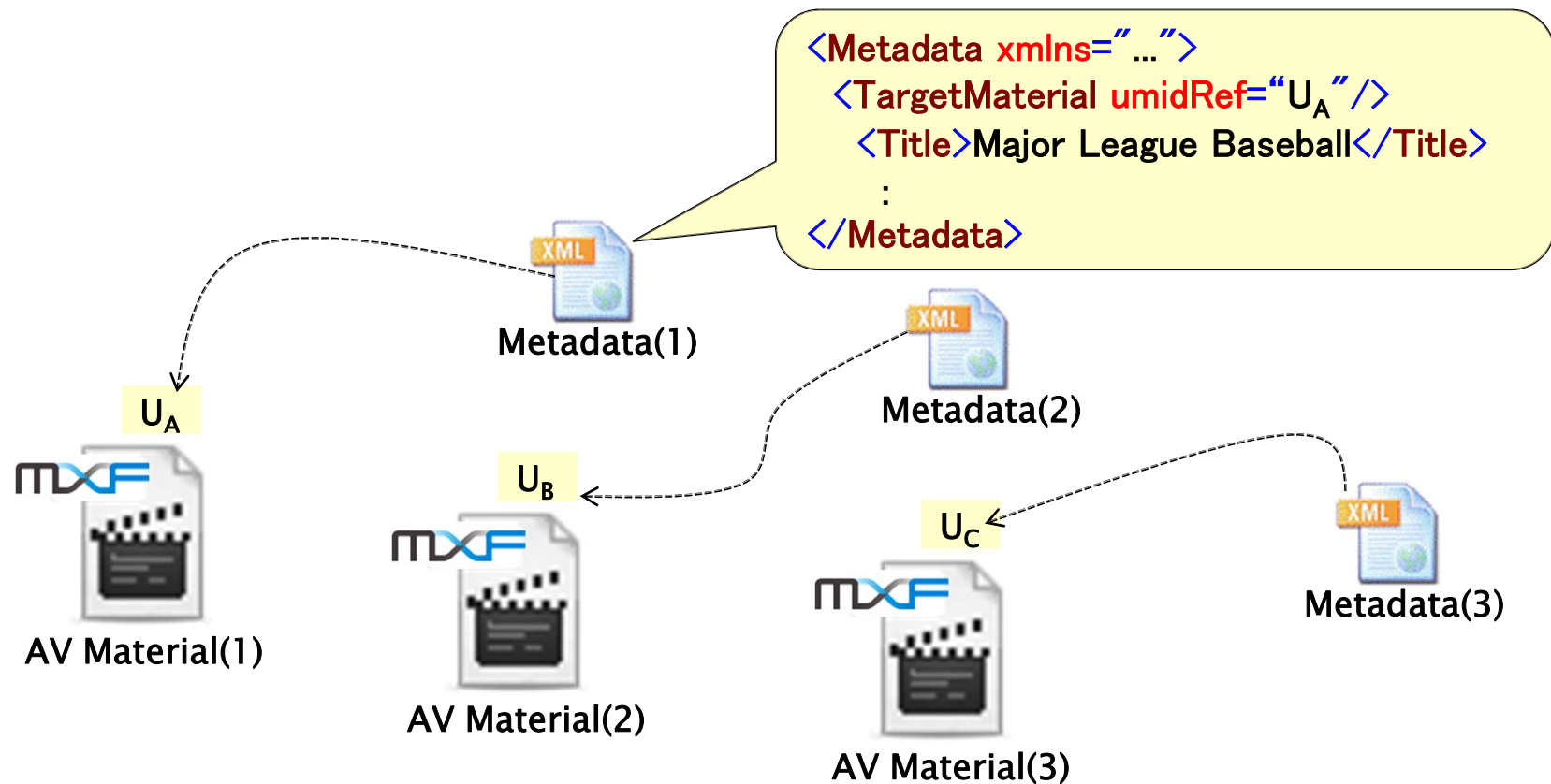# Globally Distributed Material Management by UMID

Yoshi Shibata

metaFrontier.jp, LLC
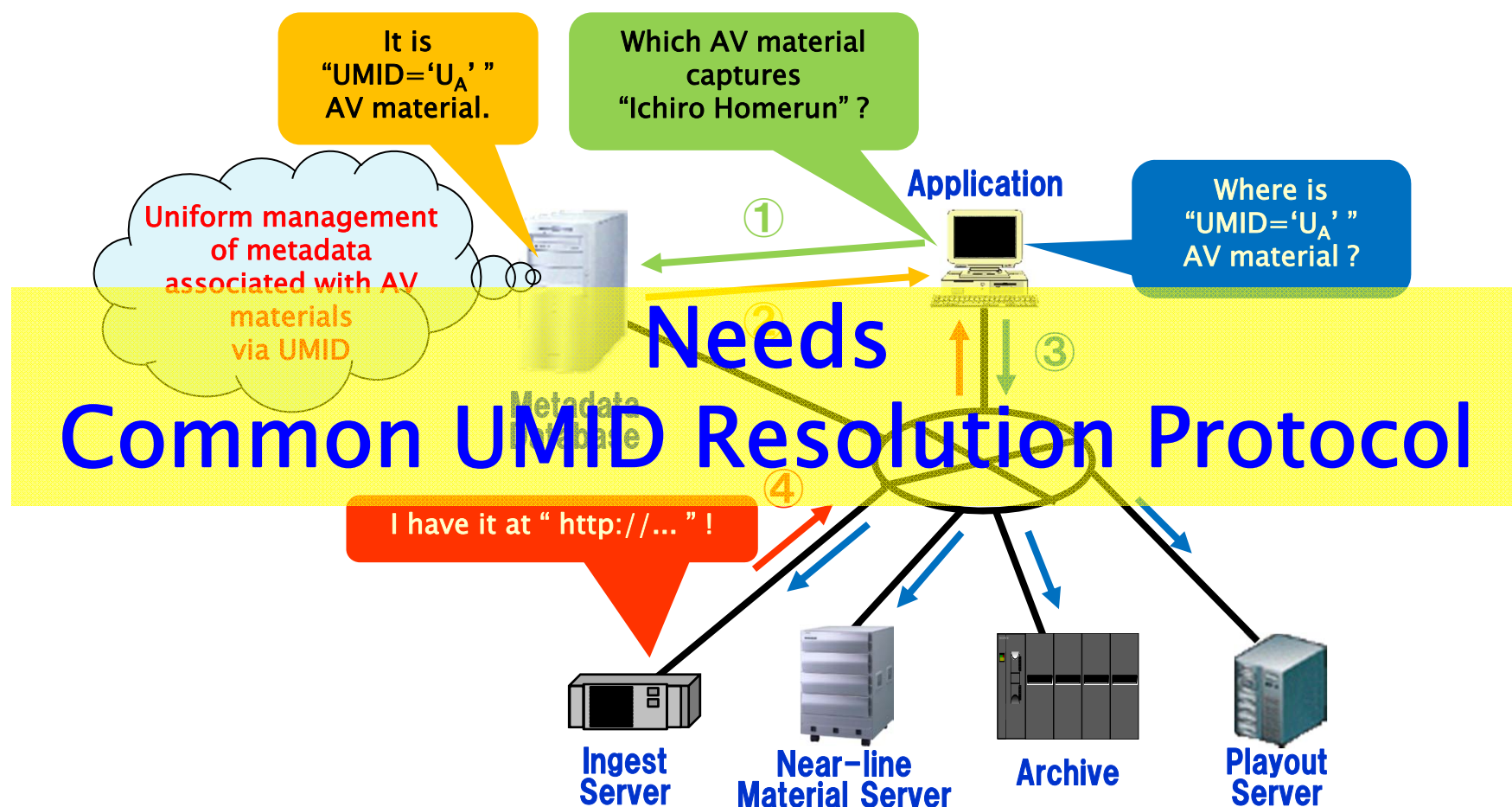
How to use UMID as an Identifier

‣ To link an AV material to its metadata
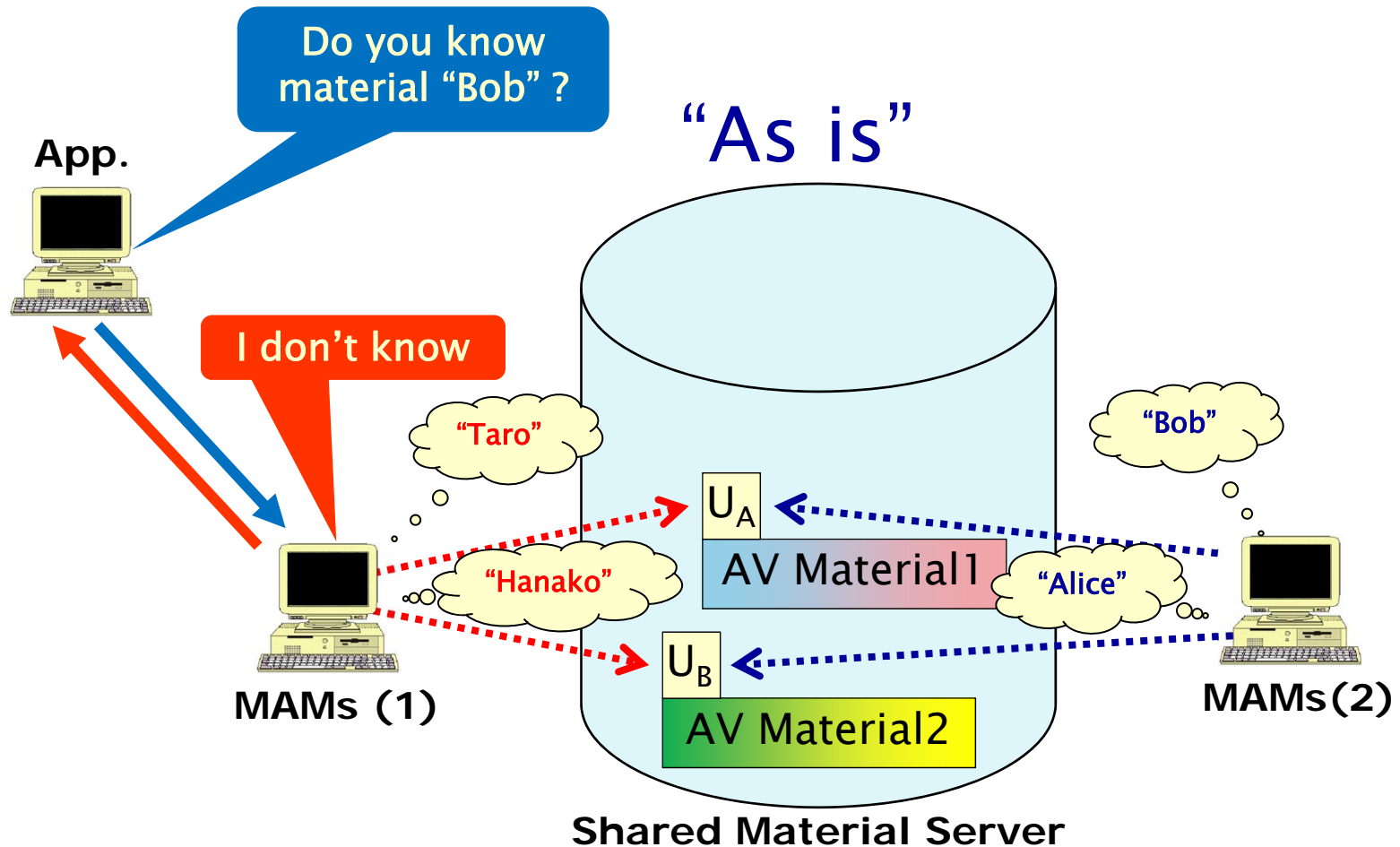


```
<Metadata xmlns="…">
    <TargetMaterial umidRef="U_A"/>
        <Title>Major League Baseball</Title>
        :
</Metadata>
```

Metadata(1)

Metadata(2)

U_A

U_B

U_C

Metadata(3)

AV Material(1)

AV Material(2)

AV Material(3)

UMID based Material Search

▸ Because of huge difference in their data sizes …

It is
"UMID='U_A'"
AV material.

Which AV material
captures
"Ichiro Homerun" ?

Uniform management
of metadata
associated with AV
materials
via UMID

Application

①

Where is
"UMID='U_A'"
AV material ?

Needs
Common UMID Resolution Protocol

②

③

④

I have it at " http://… " !

Metadata
Database

Ingest
Server
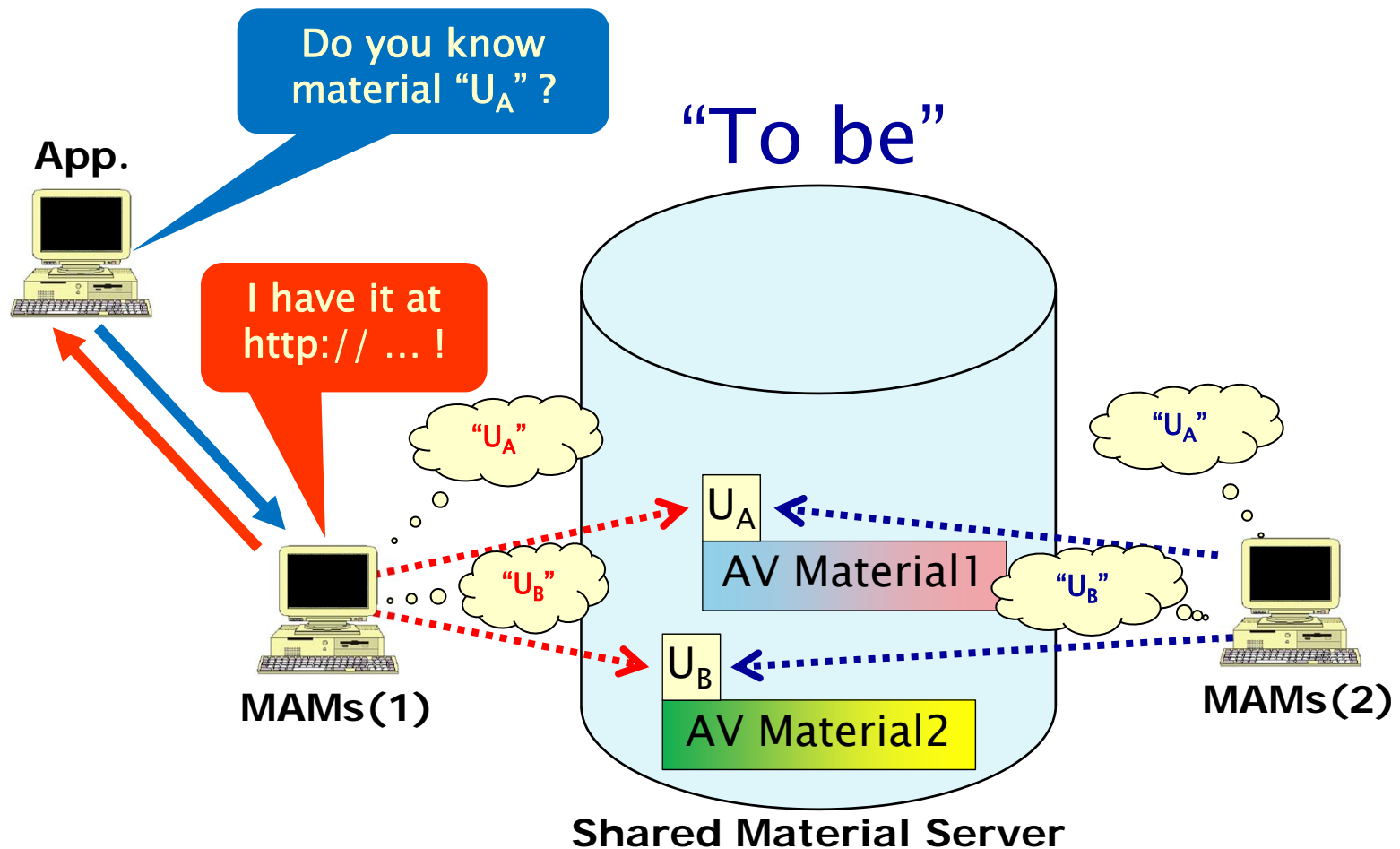
Near-line
Material Server

Archive

Playout
Server

Cooperation of Multiple MAMs
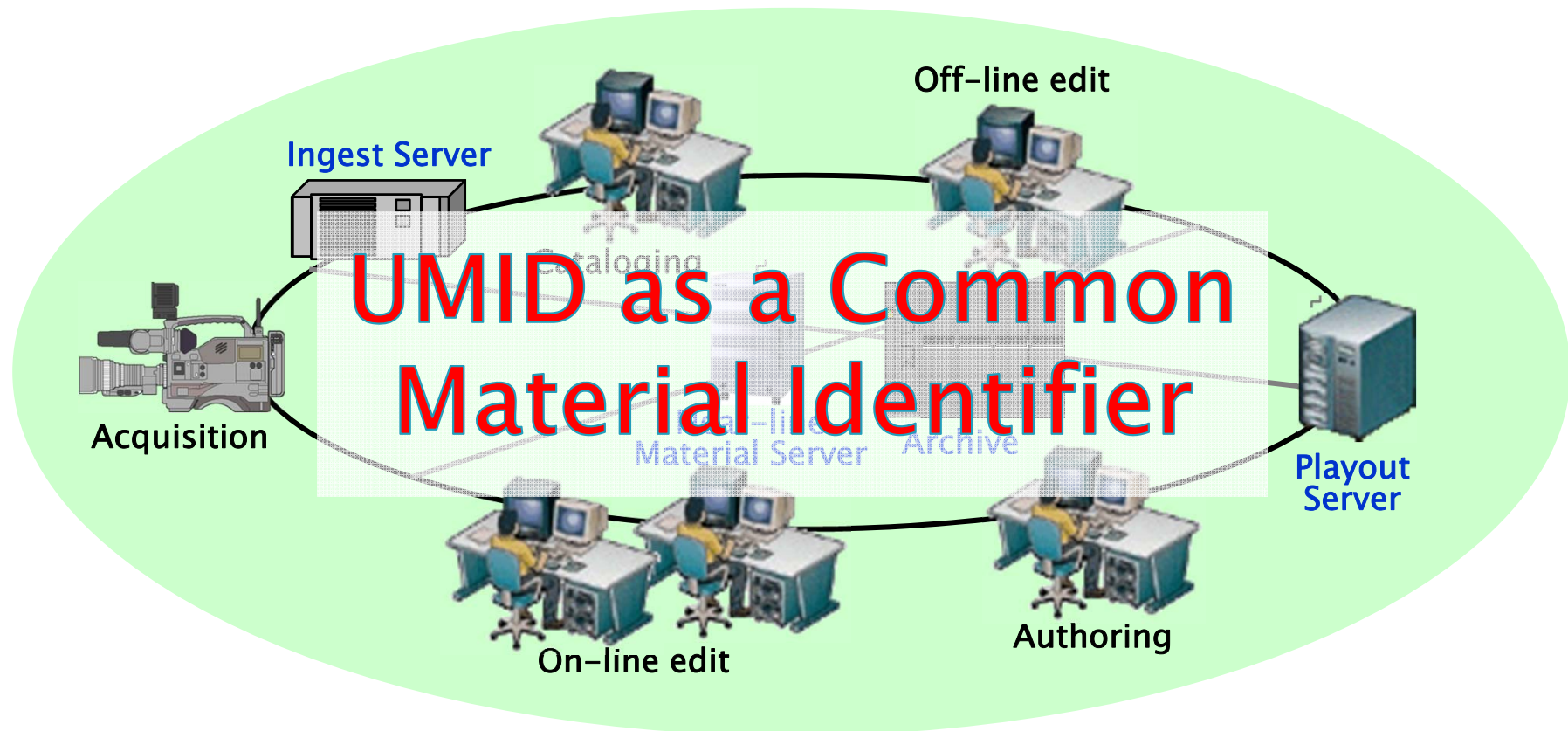
▸ via UMID as a common AV material identifier

Cooperation of Multiple MAMs

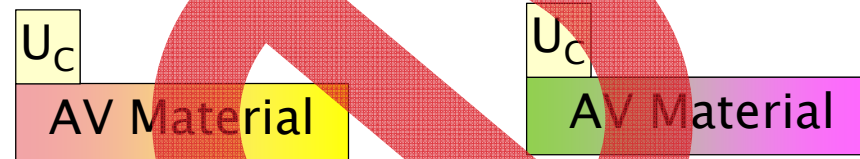▸ via UMID as a common AV material identifier

UMID in "Best-of-Breed" System

▸ When appropriately treated, UMID may be used as a common AV material identifier in the system

Off-line edit

Ingest Server

Acquisition

UMID as a Common Material Identifier

Cataloging

On-line edit

Authoring

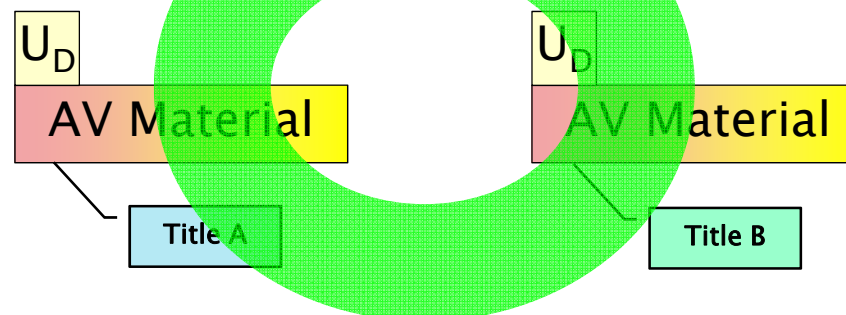Playout Server

UMID Application Principles

▶ **Principle 1: UMID Integrity**
  ◦ Different AV materials shall be identified by different UMIDs
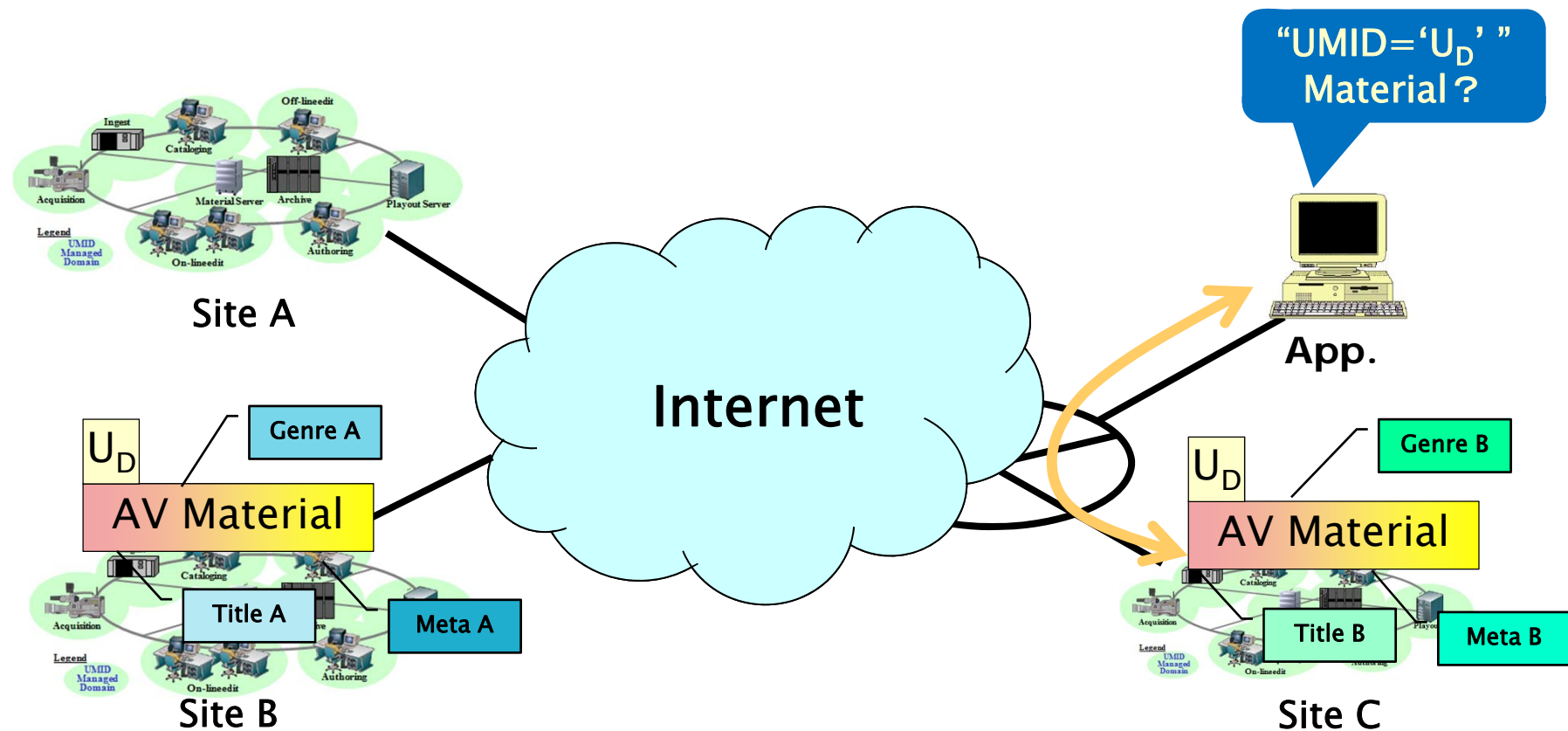

▶ **Principle 2: UMID Identification**
  ◦ AV materials representing an identical essence at their playout may share the same UMID

Globally Distributed Material Management by UMID

▸ To realize "Manage locally, Search globally"

Thank you !