Report on
- SG UMID Applications
- DG UMID Related Standards
  - ST 330 Revision
  - RP 205 1-Year Review
  - UMID Resolution Protocol

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SG UMID Applications

- Activities since the White Plains
  - Nothing to report
DG UMID Related Standards

• Activities since the White Plains
  • ST 330 Revision
    • Submitted CD to TC Chairs for the FCD Ballot
      • After revising WD especially to align with the ISO style
      • Issue of “DMA TR 8350.2” as a normative reference to be addressed shortly!!

• RP 205 1-Year Review
  • Pending initial revision draft at Kavi
    • “Another UMID application example” to be called for after the above FCD Ballot process being completed

• UMID Resolution Protocol
  • To be briefly introduced …
Introduction to UMID Resolution Protocol
Typical Use of UMID

• To associate AV material with Metadata

<Metadata xmlns="...">
  <TargetMaterial umidRef="UA"/>
  <Title>Major League Baseball</Title>
</Metadata>

THE NEXT CENTURY
UMID based AV Material Search

Managing metadata associated with AV materials via UMID

It is “UMID='UA'” AV material.

Which AV material captures “Ichiro Retirement”?

Ingest Server
Near-line Material Server
Application
Metadata Database
SONY Archive
Playout Server

① ② ③

I have it at “http://...”!

④

③ and ④ constitute “UMID Resolution Protocol”
Implementation of UMID Resolution

- DNS-based Service Discovery
- DNS-based UMID Resolution

DNS: Domain Name System
Alternative Implementation

- Using DNS Name Server
  - Step 1: Resolver asks Root Name Server.
  - Step 2: Root Name Server asks "org" Name Server.
  - Step 3: "org" Name Server returns "smpte.org" Name Server.
  - Step 4: "smpte.org" Name Server returns 107.21.249.46.
  - Step 5: Resolver returns 107.21.249.46.

- Using UMID Name Server
  - Application queries UMID Name Server.
  - UMID Name Server checks UMID registration.
  - Application retrieves URL "http://...".

DNS: Domain Name System
Preliminary Demo

- Using “BIND” (DNS Server) and “nslookup” (DNS Client)
UUID based UMID

• by using “UUID/UL Method” (‘\(2_h\)’) for Mat.# generation

\[\text{Equivalent if a scope of uniqueness is common}\]
For more information

• “STUDY REPORT ON UMID APPLICATIONS PART 2-1”

• “Latest Status of UMID Application Project in SMPTE” (@SMPTE 2013)
Next Step

• SG UMID Applications
  • To assist the DG activities as appropriate
  • To explore new work items

• DG UMID Related Standards
  • ST 330 Revision
    • To start FCD Ballot shortly
  • RP 205 1-Year Review
    • To call for other UMID application example
  • UMID Resolution Protocol
    • To start some preliminary discussion (hopefully)
Thanks!