

Report on

- SG UMID Applications
- RP 205 Revision AHG

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SG UMID Applications

- ▶ Activities since the San Jose
 - Updated Study Report Part 2 [1]
 - Contains detailed feasibility study report on the DNS for the UMID resolution
 - w/ simulation result using “BIND”, “nslookup”, and “nsupdate”
 - Accepted for 2013 SMPTE Annual Technician Conference
 - “Latest Status of UMID Application Project in SMPTE”
 - <http://edas.info/p14311#S1569474955>
 - Circulated draft manuscript [2]

[1] https://kws.smpte.org/kws/groups/30mr-umid/documents/study4401/document?document_id=25075

[2] https://kws.smpte.org/kws/groups/30mr-umid/documents/reference_documents/document?document_id=25076

DNS-based UMID Resolution

- ▶ Why DNS-based?
 - To take full advantage of the well-established technology
 - Aggregation Server, Registration, Query, Response, Security, Future extensions, Existing expertise
- ▶ How to realize it?
 - SMPTE should define the followings:
 - DNS technology family as normative reference
 - Domain-based UMID representation
 - A set of `key=value` parameters to compose “Response” (incl. URL)
 - Based on DNS Text Record

Preliminary Simulation

- ▶ Using “BIND” (Server) and “nslookup” (client)

```
C:\Windows\system32\cmd.exe
C:\>
C:\>nslookup -type=txt 0d20.13000000.d2c9036c.8f195343.ab7014d2.d718bdfd._umid._udp.local 127.0.0.1
Server:localhost
Address: 127.0.0.1
0d20.13000000.d2c9036c.8f195343.ab7014d2.d718bdfd._umid._udp.local text =
    "dur=60"
    "depth=10"
    "sample=422"
0d20.13000000.d2c9036c.8f195343.ab7014d2.d718bdfd._umid._udp.local text =
    "url=http://ingSrv.local/20130831/sports/file5.mxf"
    "codec=j2k"
    "wrapper=mxf"
local nameserver = ns1.local
ns1.local internet address = 127.0.0.1
C:\>
```

UMID Name Server

Domain-based UMID Representation

Common Properties for Material (60sec, 10bit/pixel, YUV422)

Media File Specific Properties (URL, JPEG2000, MXF)

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- ▶ Activities since the San Jose
 - Aug. 28
 - Submitted editor's final draft for internal review to Kavi
 - Sept. 20
 - Submitted revised draft hopefully for pre-ballot review to Kavi

Next Step

▶ SG UMID Applications

- To be presented at SMPTE 2013 @Hollywood (Oct.23)
 - At “Storing and Protecting Your Assets – Part 1” Session
- Further study on
 - UMID Applications in MXF
 - Still “Call for other technology to be additionally standardized to enhance the UMID applications”
- Study Report Part 2
 - Hopefully completed before the Atlanta

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- Hopefully pre-ballot review for the working draft

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Thanks!