ISDCF Immersive Audio Plugfest

20190225 setup and 20190226 plugfest

SPECIAL THANKS TO:

Deluxe (especially Justin and Steve)

Mike Radford / Fox Fraunhofer Barco Dolby

OVERALL:

FANTASTIC! Accomplished what we were hoping for!

Great discussions. Good feedback. Helping the industry move forward.

Summary:

- Two playback systems All "Basic" playback of current Atmos spec worked well (Great News!)
- Development underway for other parts of the SMPTE Spec
- Great Test Content and better understanding of the SMPTE IAB Spec
- D-Box Compatible
- DTS Content played on Dolby renderer!
- Ingestion worked well, almost everywhere.

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- Many SMPTE Advanced features not yet implemented not sure if all can be implemented - will know more at April ISDCF meeting
- Request to prioritize list of TBD features

Content:

Fox Killer Reel (in 24/48/60fps): FoxIATest-v5_TST-24fps_S_EN-XX_OBAE_2K_TCF_20190221_TCF_SMPTE

Fox Alita Trailer (with D-Box Track):
AlitaBattleAngel_TLR-D_S_EN-EN-CCAP_US-GB_ATMOS-DBOX-HI_2K_TCF_20190223_TCF_SMPTE

Fraunhofer:

FraunhoferlabTestContentV1_TST_S_EN-XX_INT_71-ATMOS_2K_20190125_SMPTE_OV

Fraunhofer Meridian:

Meridian3Beds_TST_S-178_EN-XX_71-ATMOS_2K_20190125_SMPTE_OV

DTS:

DTSOutOfTheBox_SHR_F_EN-XX_US_Atmos_4K_DTS_20190222_DTB_SMPTE_OV

Dolby:

DolbyShattered45s_POL-2D_F_EN-XX_71-ATMOS_2K_20150421_DLB_SMPTE

Hardware:

Barco	Dolby	Dolby	DigiCine	Comscore TCC TMS	Comscore TCC TMS
Equipment Information	Equipment Information	Equipment Information	Equipment Information	Equipment Information	Equipment Information
ICMP Alchemy	ShowVault/ IMB	ShowVault/ IMB	IMB	On Barco Setup	On Dolby Setup
1.3.5.2.20787	2.8.22-0	2.8.22-0			
APX Sound Processor	CP850 Sound Processor	CP850 Sound Processor	CP850 Sound Processor		
2.1.8.464	2.3.1.5-4935 429 (Beta)	2.3.0.3-4595 940 (Current)	2.3.0.3-4595 940 (Current)		
	TMS	TMS		TMS	TMS

Test and Overall Results:

This will work
Ingest Content
Validate Content
Playback of Content
Show that IA is playing
Sync Test
Simple Bed Channel Routing (5.1)
Simple Bed Channel Routing (7.1DS)
Simple Bed Channel Routing (9.10H)
Object Snap Test - Off
Object Snap Test - On
Object Snap Test - On, Tolerance 0.8
Object Spread Test, Overhead, One-D

Object Spread Test, Screen, One-D Multiple Objects (3) combined with Snap/Spread Test, Spread On Multiple Objects (3) combined with Snap/Spread Test, Snap Off, Spread Off Multiple Objects (3) combined with Snap/Spread Test, Snap On Multiple Objects (3) combined with Snap/Spread Test, Snap Tolerance
Multiple Objects (3) combined with Snap/Spread Test, Snap Off, Spread Off Multiple Objects (3) combined with Snap/Spread Test, Snap On Multiple Objects (3) combined with Snap/Spread Test, Snap Tolerance
Multiple Objects (3) combined with Snap/Spread Test, Snap On Multiple Objects (3) combined with Snap/Spread Test, Snap Tolerance
Multiple Objects (3) combined with Snap/Spread Test, Snap Tolerance
10 Simultaneous Objects, No Bed
15 Simultaneous Objects, No Bed
18 Simultaneous Objects, No Bed
30 Simultaneous Objects, No Bed
50 Simultaneous Objects, No Bed
10 Simultaneous Objects, Quiet 9.10H Bed
15 Simultaneous Objects, Quiet 9.10H Bed
18 Simultaneous Objects, Quiet 9.10H Bed
30 Simultaneous Objects, Quiet 9.10H Bed
50 Simultaneous Objects, Quiet 9.10H Bed
118 Simultaneous Objects, Quiet 9.10H Bed
Authoring Tool Info Test, at begin of IAFrame ChildElements
Authoring Tool Info Test, at end of IAFrame ChildElements
Unknown Element Test, beginning of the IAFrame
Unknown Element Test, end of the IAFrame
User Data Test, at begin of IAFrame ChildElements
User Data Test, at end of IAFrame ChildElements

TBD if these features will work	
128 Simultaneous Objects, No Bed — 118 OK	118 limit?
Mixing of Two Simultaneous Beds	
9.10H' Bed - Gain Test	
9.10H' Bed - Decorrelation Test	
Pink Noise 13.1HT Bed with 3 Spoken Conditional Beds.	
Bed Remap Test (Source: 13.1HT, Dest: 5.1, 7.1DS, 11.1HT, 9.1OH)	
Object Gain Test	

Object Zone Gain Test (using ZERO/ONE gain flags)	
Object Zone Gain Test (using decimal gain)	
Object Spread Test, Overhead, Low-Rez	
Object Spread Test, Overhead, Three-D	
Object Spread Test, Screen, Low-Res	
Object Spread Test, Screen, Three-D	
Pan Sub-block Test	
Conditional Sub-BedDefinition elements	
Conditional Sub-ObjectDefinition elements	
Three simultaneous 9.10H BedDefinition elements	