ISDCF Main Meeting Notes – November 20, 2019

<u>Upcoming Meetings</u>

DCPL Call - Tuesday December 3 10am
Immersive audio call - December 17 at 10am (talk to Steve LLamb)
ISDCF January 15, 2020 Wednesday
Immersive Audio Plugfest February 10/11, 2020 Flower Street Deluxe
ISDCF February 12, 2020 Wednesday
ISDCF April 8?? Wednesday (just after CinemaCon)

Part 1: General Reporting

Housekeeping:
- Introductions around the room
- Set next meeting dates (above). Inter-Society pays for lunches.
- THANK YOU to all that brought food to share for our potluck!
- Thank you Universal for the facilities and parking.
- Thank you Universal for support of the Chairman.
- Thank you to Inter-Society for providing the funding for lunch, travel, general expenses and admin support.
- Thank you to Universal for the coffee and Susie for the treats
- Meeting notes from October '19 approved
- InterSociety requests you be a member! $500/company. You can join from the link on the front page of ISDCF dot com.
- Legal reminder / press reminder / Antitrust Disclaimer. The official antitrust guidelines are posted on our website and are linked from the main ISDCF page. A short verbal overview of guidelines was given. The information is on the front page of isdcf(dot)com. We have added the no-social-media request for discussions held at ISDCF.
    * Chatham House Rule:
        * When a meeting, or part thereof, is held under the Chatham House Rule, participants are free to use the information received, but neither the identity nor the affiliation of the speaker(s), nor that of any other participant, may be revealed.

Note: No drive on after noon day before ISDCF meeting. If you want to attend and have not added your name to the drive on, please CALL IN.

Attendance is at end of these notes.

Action Items from November 20, 2019

1. Please Join Inter-Society! http://isdcf.com/ISDCF/membership-status.html $500 per company per year, $100 individual membership.
2. Jerry to create google sheet to capture updates for language codes
3. Steve/Dean to work on 30MR contribution for registry for language codes
4. NEW CONTENT for the immersive audio plugfest is DUE on December 30.

5. Old - Request to see servers/TMS to use the SMPTE CPL metadata (i.e. extract FFMC flag). Call for participation in the Plugfest in November 2019

From Last Meetings (These items are on long-term hold until the next plugfest and/or standards have been finished.)

6. Make a test package with slightly different content in the CPL Content Title Text, PKL text, etc for testing at the next plugfest or to conduct a field test of systems to see where the user displayed content is from for different TMS/Servers.
7. Post new versions of the framing charts.
8. Get a new version of SMPTE-DCP B2.1 with fixed CPL.

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ISDCF Immersive Audio

Here we are a month later after delaying the November plugfest until January and all we hear are crickets. No confirmation of new rendering solutions, no new content and no confirmation of updated software for the already-tested rendering solutions.

Result of the conversation is to delay (again) the ISDCF immersive audio plugfest until February 10/11 - ASSUMING WE HAVE CONFIRMATION OF NEW RENDERING SOLUTIONS. We want to interchange new bitstreams, but the main reason for a plugfest is to allow vendors to experiment (and learn) by the playback of known bitstreams.

We now have a deadline of December 30 for confirmation of playback solutions and new bitstreams. If we don't receive confirmation by Dec 30 the plugfest will (again)

be at risk of being delayed. Those who want to confirm the plugfest this is your chance to encourage hardware folks to participate.

There is a plan to have a call-in for the immersive audio group on December 17 at 10am to discuss status. Contact Steve LLamb and/or follow the immersive audio discussion list (http://lists.isdcf.com/listinfo.cgi/immersivesound-isdcf.com)

Plugfest - February 10/11 2020 at Deluxe Flower Site (ISDCF main meeting to February 12)

We have talked about other things for the plugfest… but there does not seem to be much interest in pursuing these tests. It would be driven by server companies that wanted to test/show off new capabilities in their UI and/or rendering.

    Metadata display from CPL / Automation -
        Marker testing
        MCA sub-descriptors - Sound format selection (5.1/7.1)
        Variable Z subtitles

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Naming Convention / language codes

There is general agreement that the current ISDCF/Naming Convention language code solution (a posted spreadsheet) of spoken language codes and a disconnected posted spreadsheet of region codes is not going to cut it for the future.

MESA is working on a more complete solution, mainly for the TV market and it makes sense that we work together to find a common solution to the issue of too many codes that may not agree.

There seems to be general agreement that the solution involves an official "registry" that can be quickly updated as problems arise (and they will). It also needs to be machine readable. It also needs legacy codes. It probably also needs to be somewhat relational - linking regions with codes and codes with regions. (i.e. Canada Region linking to English and French). There is some support to move the discussion into SMPTE (in particular 30MR) as a common ground to do the work. BUT there is also concern that SMPTE process is too slow to meet the needs of the industry. Both for creation of the registry and also to update when needed. (Is this right?) What to do,

what to do?

Resources:

ISDCF hosts (on Google Docs) the language codes: https://isdcf.com/dcnc/home/appendix-1ab-language-codes.html and the territory codes: https://isdcf.com/dcnc/home/appendix-2ab-territory-codes.html

MESA links to their language codes: https://www.mesalliance.org/language-metadata-table with a downloadable (static) set of codes: https://www.mesalliance.org/wp-content/uploads/2019/10/Copy-of-Language-Metadata-Table-V2.1-9-17-19.xlsx

So there are a number of issues that need to be addressed:
- Where should the work be done?
- What is the desired outcome and form?
- What is the proper entries into the table (i.e. does it include a column for digital cinema legacy? Is it relational and link to regions?)

A few of ISDCF members (mainly Harold) has compared ISDCF's language codes to MESA's codes and found a number of conflicts / areas of interest.

A point of note: "If it's not broke, don't fix it" needs to be addressed. ISDCF's Naming Convention is working fine, BUT the main part that may be broken is in the CPL metadata where exact entries are needed.

To get this going, the suggestion is to create an on-line Google Doc that is open to editing and try to jointly identify issues and desired outcome. We are not sure how this will work, but it's a start.

EIDR

On another topic for the naming convention, there was a request to use EIDR in digital cinema metadata. EIDR has a document on this topic (not a new document - 2016) http://eidr.org/documents/EIDR_in_Digital_Cinema_v0.5.pdf describing what could be gained by using EIDR.

It was confirmed that the current SMPTE spec CPL Metadata allows for including EIDR information. It is up to studios/service providers/equipment manufacturers to insert/use EIDR in the field.

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DCI Update

DCI let ISDCF know that there will be image viewing for next-gen display systems on January 23/24, 2020 in the LA area. More information to come, but save the date! ICTA ends on January 22. ISDCF is on January 15.

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NATO Update

NATO issued a request for TDL contacts (see below a copy of the email sent to the reflector). NATO clarified that NATO is NOT planning to create a TDL, but is offering a service to exhibitors a resource to distribute equipment updates to those who do maintain TDLs.

NATO would like to collect contact details for companies that should be contacted when a TDL device needs to be updated. The goal is to provide NATO members with a list of every company that has their own TDL and contact details for each of those companies so that when a device needs to be updated, a NATO member can run down the list and ensure that every company that needs the update gets it. As part of this list, we would also like to provide NATO members with a list of all of the information that should be provided to each of these companies when a device needs to be updated.

If your company uses a TDL, please reply to me at evh@natoca.com with contact information (Name, Phone Number, Email) for the person/people that should receive information about an updated device, and please also provide a list of information you expect to receive from an exhibitor when a device is updated.

Some asked why don't exhibitors use the FLMx automated feed to distribute this information. Another commented that this should NOT be a discussion list since the traffic would be very high since there are lots of updates every week.

The discussion continues…

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Digital Cinema Picture Levels

> November 18/19 ISDCF/NATO conducted more tests for the DCPL project.
> To be clear, this is a NATO project supported by ISDCF.

This round of testing was targeted at more "standard" theaters, not PLF theaters. Again, the theater and the projector manufactures will be not shared. Two theaters in the LA area were visited, plus a mastering suite. A total of 9 screens were measured and observed.

A few high level observations:

• Theater black is better than expected - many achieving under 2 mNits
    • What does that mean? Projector black was 30-40 mNits
    • A higher contrast projector could "use" the higher contrast
• The center brightness is not a great indicator of picture brightness
    • Gain screens add significant variability

The addition of still images to do a semi-subjective evaluation is a great addition. It takes into account the effects of the human eye.

> Still frames help, but it's not the goal
> >>The goal is NOT to make numbers look good
> Good images for motion pictures are the real goal

Some of the numbers and images were presented. There will be a DCPL call on December 3 at 10am Pacific Time to go over the testing so far and to look for the next set of testing.

	11/18 7:50 AM	11/18 8:50 AM	11/18 10:00 AM	11/18 11:00 AM	11/19 7:40 AM	11/19 8:50 AM	11/19 10:00 AM	11/19 11:00 AM	11/20 3:40 PM	11/20 3:40 PM
Results										
Reference Center Brightness (fL)	8.4	5.6	11.4	9.6	17.5	11.6	18.0	20.9	12.8	30.6
Average Side Brightness (fL)	3.4	2.3	5.6	7.3	10.5	7.6	9.2	9.0	11.4	0.0
Average 5 point brightness (fL)	4.3	2.9	6.7	7.8	11.9	8.4	11.0	11.5	11.7	6.1
Projector Black (mNits)	23.0	19.0	42.0	26.0	39.4	36.3	59.8	113.0	10.0	16.1
Theater black (Center, mNits)	1.0	2.0	2.0	2.0	1.3	1.2	1.8	0.7	0.3	0.3
Sequential Contrast	1191	969	917	1286	1518	1081	1038	646	4304	6522
DCIC average Contrast	640	373	369	593	902	758	717	573	1243	1261
Picture Rating					9.0	8.5	9.0	7.5	10.0	
3D Reference White brightness (fL)	0.0	0.0	0.0	0.0	3.5	0.0	0.0	5.4	0.0	0.0

Most Useful Test Patterns

DCP of black and white
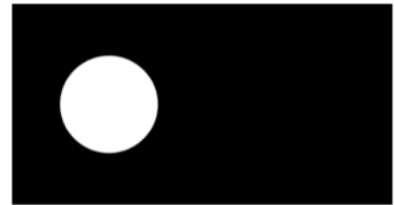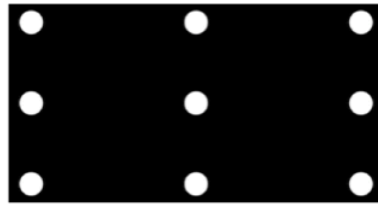
DCP of 9-dice pattern
(SMPTE spec)

No projector - House lights at feature
playback level and trailer/walk in level

DCP of DCIC - a NATO
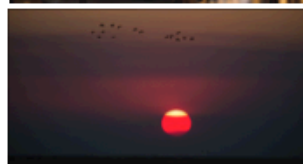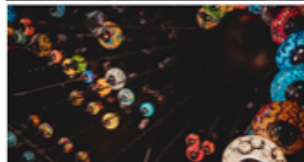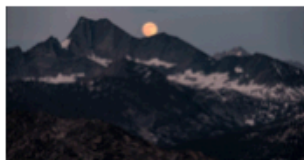invention - Digital Cinema
Intraframe Contrast

Most Useful Test Images

SMPTE-DCP Updates

Nothing new to report. Most of the updates are being tracked/encouraged by EDCF.

https://www.smptedcp.com/status

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Update to SMPTE standards - B2.1 documentation - RDD underway

Almost there…

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Deviant Aspect Ratios or High Frame Rate Releases

Some 2.0 aspect being released over Christmas
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Review of Action Items from last meeting.

Action Items from October 2, 2019

1. Please Join Inter-Society! http://isdcf.com/ISDCF/membership-status.html $500 per company per year, $100 individual membership.
2. Call meeting of AdHoc committee to discuss future of language and territory codes and work with HBO+ for long term solutions, Steve/Harold will call an ISDCF meeting to discuss. Discussed at this meeting.

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Attendance on next page.