

ISDCF Main Meeting Notes – January 18, 2018

Upcoming Meetings

Thursday March 8, 2018 10:30am at Universal

Wednesday May 2, 2018 11am at Universal (may move time back to 10:30am if room becomes available)

June 5/6 audio plugfest?? At Deluxe?

Wednesday July 18, 2018 ?? at Universal

(Will try for Wednesday meetings as often as possible.)

Part 1: General Reporting

Housekeeping:

- 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.
- InterSociety is providing lunches!! Please become a member!!
- Thank you to Universal for the facilities and parking.
- Thank you to Universal for support of the Chairman.
- Thank you to Inter-Society for providing the funding for notes, travel, general expenses, LUNCHES! and admin support.
- Thank you to Universal/Intersociety/Susie for the coffee and treats
- Meeting notes from December '17 approved.
- InterSociety request to be a member! \$500/company. Please Join Inter-Society! [www.intersociety.org / become-a-member](http://www.intersociety.org/become-a-member) / \$500 per company per year, \$100 individual membership.
- Legal reminder / press reminder. A verbal description was provided at the meeting.

* 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.

Attendance is at end of these notes.

Action Items from January 18, 2017

1. Please Join Inter-Society! <http://www.intersociety.org/become-a-member/> \$500 per company per year, \$100 individual membership.
2. Documents will be drafted for mods to 429-2 and a creation of an Application to match formal standards to current practice (Steve)
3. Documents will be drafted for possible changes to DCI specs (references to SMPTE and the CTP) (Steve)
4. Initial version of proposal to be discussed prior to next meeting - any suggestions please send to Steve LLamb.
5. Email list of flavor changes to the reflector for comments and request for additions. (JP - done)
6. Order T-Shirts that say "429-2 is an aspirational standard"
7. Ask direct view panel manufacturers to help us understand scaling needs for future displays
8. Create a generic ISDCF framing chart to be freely shared (Kirsten/ Eikon) is taking the lead
9. Integrators can coordinate with Deluxe to find sites that are not SMPTE-DCP ready to help fix/report status
10. Deluxe will send a current list of sites that are not SMPTE-DCP ready that have Dolby equipment to Dolby.
11. Creating an ISDCF Forum entry - some SMPTE-DCP problems and how to fix them. Steve/Jerry will work on creating an entry.
12. Get more examples for the digital cinema naming convention from other studios.
13. Send note to Interop-DCP sites informing them of transition and how to report changes (Disney, NATO, Deluxe)
14. Update sign language video description to include references to the "Class 13" block for sign language names. (Mike/Pierre). We should have a reference to the Class 13 UL's on the ISDCF website.
15. Someone should start an ISDCF wikipedia page! Volunteers?
16. Contact possible venues for ISDCF immersive audio plugfests. (Brian - Dubstage, Wade - Hitchcock, Deluxe has offered their facility)

From Earlier Meetings:

17. Will someone write up a “how to” for getting SMPTE documents to publish on the ISDCF website under the <http://isdcf.com/ISDCF/smp-te-standards.html> page. (Dean)
18. New ISDCF Document in process: “Delivery of non standard extension content for Digital Cinema” (Dean/Jerry)
19. Need for an ISDCF recommended practice for what to expect in the CPL metadata. It will point to the appropriate SMPTE documents for the true authority, but it is targeted at general users (exhibitors) for layman language on what is in the metadata. (who? Steve/Jerry will start)
20. Techie group to discuss RPL timing - Harold, Dean/JP (Dolby), Tim R (TI), Bill E., Kevin (Christie).
21. Subgroup to edit / recommend changes for Document 12 - RP for Ingest Behavior - Steve L to lead, Dean B, John H, Mike R, Jim W, Chris W, Bill E “volunteered” to participate.

ISDCF Forum:

Traffic continues, very few new postings. Anything having to do with KDM gets lots of hits.

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Review of standards - matching standard to what works in the world

Creating a constrained SMPTE standard to match ISDCF Test Content B2.1 profile.

Can this address both standards and compliance test plan (CTP)

The list includes:

- No 96K audio
- MCA labeling shall be consistent with ISDCF recommendation 4
- Subtitled without entry point and duration
- Audio format 4 only (dump the rest)
- Formalize ISDCF channel layout (Audio format 4 WTF)
- Only scope/flat container size (other aspect ratios must go inside flat or scope). Comment: No one is set up to display a full container -

unclear what would happen in the field for a full container (with pixels on in the non-scope/flat regions).

- File Size limitations with subtitles needed (xyz-Kbytes per reel)
- Requiring annotation text in PKL & CPL
- Subtitles and Captions if on one reel, both must be on all reels (new inserts especially a problem)
- Key limits in CPL (see CTP sets)
- Timed text be encoded in normalization form C (<<https://www.w3.org/TR/charmod-norm/#unicodeNormalization>> and <http://unicode.org/reports/tr15/#Norm_Forms>).

Outside SMPTE Adventure / maybe DCI-CTP

- SM security with block chain for log reporting

How to move forward? One option was to modify 429-2 - but that didn't work well - too many mods. Second option is to create an Application that includes the constraints (similar to IMF).

Discussion on how to refer to ISDCF audio format layout. It probably needs to stay on the ISDCF site (since some items in the layout are not standardized).

There are changes that are needed to 429-2 AND the addition of a constraining Application.

In addition to the changes to the standard, we need to address the DCI documents (references to SMPTE and CTP). This will be a breadcrumb document?

It is clear that 429-2 would leave items in the standard that are “hopeful” or “aspirational” standards (like 96K and channel routing), but the Application might remove these requirements since these are not being used in the field.

Studios want to document and share how to make playable DCP's in as much details as possible. This may end up with 3 documents and /or document changes: 1) changes to 429-2 for obvious things that are not needed; 2) an Application that would be constraints on what should be used and 3) an ISDCF document that going into more details on what

works and what doesn't work. There may also be a request for changes to DCI's CTP document as well.

Resizing of Images

DCI spec 8.2.2.7 requires a display resolution of either 4K or 2K. What about direct view displays that have higher / odd resolutions that are not 2K or 4K? Should the standard allow for scaling to these new technologies?

Are we kidding ourselves? Many projectors and workflow doing scaling now.

What would the parameters be to allow scaling in new direct view display devices?

Could use test patterns that would qualify certain scaling? This could be part of DCI's CTP.

The general feeling is that 8.2.2.7 is not being adhered to now. BUT this "exceptions" have been seen and indirectly approved.

What guidance do we give an exhibitor / direct view provider to fill a 52' screen that is not a 2K or 4K pixel structure? What about keystone correction using scaling?

Sounds like the industry is willing to entertain special scaling for displays and /or for keystone. We need to wait for specifics and can have a discussion with us to help document a recommended practice that MIGHT make it back to standards and/or other bodies (DCI). Is it time for a direct view show and tell?

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Reference Framing Charts

We have had on ISDCF wish list to create a set of open available test charts that can be freely distributed.

What do we want on the test chart?

Full container?

Flat and scope separate (yes) and a 3D flat/scope as well each in 2K and 4K (6 total charts (no 3D in 4K))

Center white circle (for measurement of peak brightness)

Headshot for flesh tone color (Hurst has an image that can be used)

A number of candidate test charts have been shared and have been sent to Kirsten (Eikon) who has offered to make the version for ISDCF

Some samples are posted to isdcf.com/testcharts

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SMPTE-DCP

We are past “how many SMPTE-DCP titles are being released.” The focus is now on how to move theaters identified as “Interop Only” to be SMPTE Good. How to get update information AND get them updated?

Last meeting suggested a letter to be send signed by NATO/Mouse. How’s that going? And/or a note in Hard Drives?

Send to individual theater manager with a copy to corporate office. Best if from Fithian and many heads of distribution from studios.

If an integrator wants to check to see if one of their sites are on the list of Interop-only, contact Steve LLamb to check.

How to get update to ripple back to Deluxe that they are OK for SMPTE-DCP?

Concept of creating a ISDCF Forum entry - some SMPTE-DCP problems and how to fix them. Steve/Jerry will work on creating an entry.

(ISDCF will not focus on the release side in the future, the problem is getting the small group of non-updated sites, not the pressure of creating the SMPTE-DCP content.)

Disney - all future releases will be SMPTE-DCP. No unusual problems with

past releases.

Fox - all Fox titles will be SMPTE-DCP (some Searchlight may not be upgraded)

Paramount - many are being released SMPTE-DCP

Universal - Pitch Perfect 3 went out SMPTE-DCP. Other titles are mixed due to cost of creating dual inventory.

Lionsgate - Making releases in SMPTE-DCP now.

WB, Sony - no updates at this meeting.

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EDCF

We will not have a BIG ISDCF / EDCF for either their pre-CinemaCon tour or at CinemaCon. Our current plan is to have a smaller meeting of a few from EDCF / ISDCF at CinemaCon.

3D ghosting was discussed. Could be a problem with high brightness 3D. Not an issue that ISDCF can help address.

Regions that are SMPTE-DCP ready include: Norway, Netherlands, Finland, Russia, Iceland, Baltic, Denmark, Sweden, Ireland, UK
Upcoming: Spain, France, Germany, Poland, Luxembourg, Hungary

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Brazil Sign Language

Moved away from cloud based delivery solutions and considering primary DCP delivery.

The accessibility requirement would begin in November 2018 and be fully implemented November 2019. A shift in dates due to meetings in Brazil. Some studios are going to continue to deliver the video track to Brazil and some are going to wait.

Avatar solutions are still in development and will be considered - could be based on the closed caption track. Lots of unknowns here...

There was demonstration of an IR delivery of video made to one studio. The company is Riote.

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Naming convention adventures —

Changes were made on the website to show progress in CPL adoption and the chart has been updated to v9.5. Addition of Eclair color and fixing some of the language for the Assisted Listening Track/ Audio Description track.

We are still looking for more examples of named titles.

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Immersive Sound ISDCF plugfest

It's time to start the planning for an ISDCF plugfest!!

We are ready to have an opportunity for playback of "standard" SMPTE-Immersive audio bitstreams with a number of rendering solutions. ISDCF's plugfests are an opportunity for participants to use plugfest to improve their systems and to confirm the interoperability of the bitstreams.

Dolby and Barco have both indicated interest in participating in the plugfest.

ISDCF has created a webpage to track the progress in getting content, participants and bitstreams. <http://isdcf.com/ISDCF/plugfest.html>

We picked June 5/6 as possible dates for the plugfest. Location TBD.

We have a number of operational issues to define - such as how comparisons can be made, etc.

Content: Desire for "regular" content, some edge case content (all content from SMPTE-DCP with SMPTE standard immersive audio stream)

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Nothing to report on HDR standard setting

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There was a question on the audio SMPTE B-Chain standard. Harold will send a note to better explain the details of the question.

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Attendance on next page.