

AUDIO ENGINEERING SOCIETY

TC-Audio for Cinema Committee Meeting

March 22, 2019

4 pm – 5 pm (GMT)

146th Dublin Convention

Attendees

- Douglass Greenfield, Independent
- Nuno Fonseca, Sound Particles
- Brian Long, Skywalker Sound
- Bert van Doele, Auro Technologies
- Charles Robinson
- Haena Cho, Student at University of York
- René Idrovo, PhD at University of York
- Scott Norcross, Dolby
- Eelco Grimm, HKV
- Steve Hutt, Secretary
- Julian Pinn, Chair

Agenda

1. Appointment of secretary for minutes
2. Roll call
3. Quick summary of last meeting on 30th Jan 2019
4. Loudness next steps
5. Education next steps
6. Any other business
7. Next meeting

Minutes

- 1. Appointment of secretary for minutes**
 - o Steve Hutt kindly offered, thank you.
- 2. Roll call**
 - o Taken and reflected in Attendees above.
- 3. Quick summary of last meeting on 30th Jan 2019**
 - o Apologies from the Chair for the lack of minutes. This meeting almost didn't happen due to low attendance. Of the meeting, Scott Norcross, Charles Robinson, Gunter Oehme, Brian Vessa and Julian Pinn continued the debate on Loudness and nothing else. There was no offer for a secretary to minute-take and thus there were no

minutes as Julian cannot do this well whilst Chairing and being active in the discussion. The tasks from that meeting were that:

- Gunter Oehme would send Julian Pinn a German study on loudness,
- Charles Robinson to send the SMPTE publication of the NATO study, and
- Julian Pinn to start bringing together a Request For Proposals on Loudness Control that this group should agree to before circulating to the group.

4. Loudness next steps

- Discussion on Loudness to put studies together.
- Eelco Grimm reminded us that the loudness sub-committee work has moved up to full committee.
- TC-AC plays an interesting roll within the wider industry and is probably well placed to carry out research and present findings to help the development of industry acceptance and potential standards setting.
- Brian Long: there are two distinct topics:
 - track-based loudness measurement where there is a standardised and expected replay performance B-Chain
 - room-based loudness measurement that pertains to the specifics of the B-Chain performance that might not be part of the standards and norms such as distortion, resonances, etc.
- Brian Long suggests that this group and its loudness work consider the wider content creation industry including its deliverables to not just theatres (cinema) but to streaming services such as Netflix and others and Home Entertainment.
- Eelco Grimm believes that is outside the scope of TC-AC.
- Brian Long defended his suggestion; some users will need to intertwine metrics and we need to be careful to avoid inefficiencies whilst respecting differences.
- Julian Pinn thinks there is room in TC-AC to set guidelines that navigate these delivery categories and sees these as connected topics from both the research and regulatory perspectives.
- Eelco Grimm pointed out that the EBU will be discussing and investigating wide dynamic range, feature film content, dialogue-anchor-based measurements and looking at methods that are less proprietary.
- Julian Pinn is concerned about dialogue analysis as this is either:
 - complex and proprietary (in-the-mix-identification and exclusive measurement) or
 - making false assumptions (dialogue is only mostly mixed to Center channel—not always).
- Brian Long states that delivering a streaming version is the primary hero master with any delivery of a large cinema version, secondary; consequently, the path is reversing.
- Ploud:
 - EBU will next meet in May 2019
 - ITU will next meet in July 2019
- There is no liaison between AES and ITU. EBU can provide input. Scott Norcross offered to report back from next ITU meeting on Loudness.
- Julian Pinn will coordinate a small group to create the first-draft RFP that will request studies (referencing existing work - Guenther Oehme has a paper in German for example), proposed gaps in our understanding, steps to fill gaps, etc as detailed in the RFP and then call the next meeting to ratify that RFP for its subsequent publication.

5. Education next steps

- No time.

6. Any other business

- None.

7. Next meeting

- The next meeting shall be in 2 – 3 months from the date of this meeting to maintain the normal frequency 4 meetings per year. Date to be advised by Julian Pinn.

Summary and approval of tasks / action items

- Julian Pinn: to advise next main meeting (June time).
- Julian Pinn: to co-ordinate a smaller ad hoc group to bring together a first draft Loudness RFP and to hash out a date that works for Brian Long.
- Scott Norcross to report back from ITU meetings on Loudness.

Minutes by Steve Hutt (edited by Julian Pinn)