ACES Working Group Proposal

Proposal submitter Proposal submission date

Tucker Downs 10/25/2023

Description of the problem or question(s) the Working Group will be investigating

The current ACEScc and ACEScct encodings cannot encode the full dynamic range of modern digital cinema cameras in the 0 to 1 range. While ACEScc and ACEScct are capable of encoding values below 0 and above 1, those ranges are clipped when passed over digital interfaces such as HD-SDI.

Review date 10/27/2023

This working group will establish a new "ACESlog" encoding, intended to supersede ACEScc and ACEScct. The working group will consider encoding dynamic range, quantization, round-trip color errors when quantizing to various bit depths, and grading behavior when using as a color corrector working space.

Proposed Working Group deliverable(s)

- A new ACESlog specification
- Performance details
- Best practices for recommended usage

List of Proponents

ROE Visual, Netflix, RED, Universal Pictures Anticipated core Working Group contributors ROE Visual, Netflix, Arri, RED

Anticipated Working Group lifecycle

ACES Leadership Use

Approved
Not approved
Proposal modifications required

Assigned Working Group Name

ACESlog Working Group

Assigned Working Group Lead

Tucker Downs

Supervising Technical Advisory Committee

Architecture Implementation

Anticipated Academy resources required

Imaging Lab, Baselight, Sony X300 and Projector for testing.

Notes