# 2023 ASWF OpenEXR Virtual Town Hall

August 1, 2023

## Presentation Slides:


## New Optional Standard Attributes:

**Support automated editorial workflow**

`reelName, imageCounter, ascFramingDecisionList`

**Support forensics (“which other shots used that camera and lens before the camera firmware was updated?”)**

`cameraMake, cameraModel, cameraSerialNumber, cameraFirmware, cameraUuid, cameraLabel`

`lensMake, lensModel, lensSerialNumber, lensFirmware`

`cameraColorBalance`

**Support pickup shots (reproduce critical camera settings)**

`shutterAngle, cameraCCTSetting, cameraTintSetting`

**Support metadata-driven match move**

`sensorCenterOffset, sensorOverallDimensions, sensorPhotositePitch, sensorAcquisitionRectangle`

`nominalFocalLength, effectiveFocalLength, pinholeFocalLength, entrancePupilOffset`

`tStop (complementing existing aperture)`

**Tracking current work in SMPTE**

SMPTE is trying to be more agile, and virtual production makes a good test case for their efforts; there’s an overview blog post on their site:

# Update on SMPTE's Rapid Industry Solutions (RIS) On-Set Virtual Production (OSVP) Initiative

SMPTE Content
September 19, 2022

SMPTE's Rapid Industry Solutions (RIS) program was designed to give the Society an agile, responsive framework through which to address emerging industry needs. Working with partners across the industry, SMPTE identified on-set virtual production (OSVP) as a suitable subject for its first RIS initiative, the SMPTE RIS OSVP initiative, which launched one year ago

https://www.smpte.org/blog/update-on-smptes-rapid-industry-solutions-ris-on-set-virtual-production-osvp-initiative

**Real-world camera and lens metadata is messy**

Camera vendors provide metadata with their own names, their choice of data type, their choice of unit, and perhaps most importantly their own semantics

**SMPTE offers metadata normalization definitions**

Anyone with a GitHub account can comment on them: https://github.com/SMPTE/ris-osvp-metadata/

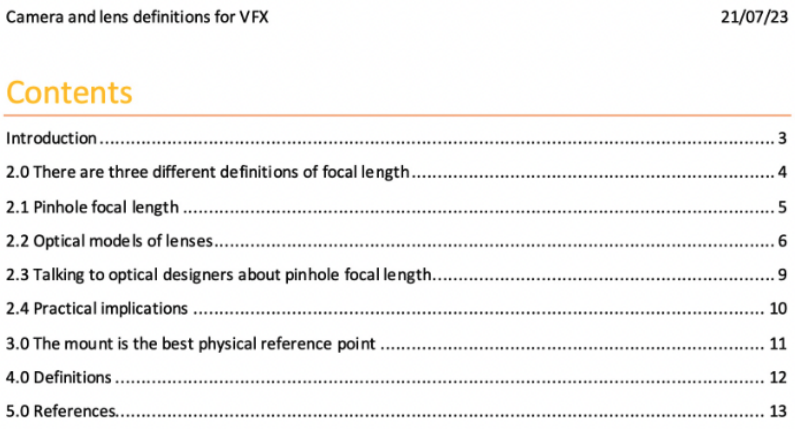
**SMPTE works with camera vendors to show how their metadata is mapped to SMPTE RIS OSVP metadata**

Anyone with a GitHub account can file an Issue or submit a PR: https://github.com/SMPTE/ris-osvp-metadata-camdkit

ARRI, Blackmagic Design, Canon, RED, Sony contributions so far

**The new metadata leverage a very good white paper from Cooke Optics establishing lens terminology for VFX**

The definitions in this paper are used in the SMPTE RIS for OSVP **camdkit** project just mentioned

Camera and lens definitions for VFX 21/07/23

Contents



… that you can find at

https://cookeoptics.com/wp-content/uploads/2023/07/Cooke-Camera-Lens-Definitions-for-VFX-210723.pdf