ARRIRAW DPX Multichunk Data

WORKFLOW GUIDELINE

Date: 5 December 2013
1. **Version History**

<table>
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<tr>
<th>Version</th>
<th>Author</th>
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<tr>
<td>2013_11_18</td>
<td>Goldstone</td>
<td>First document</td>
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3. **Introduction**

The Codex DPX Multichunk user data scheme allows for multiple parties to independently store data in the DPX User Data area. This document defines concretely the format and semantics of chunks related to ARRI RAW processing:

- the effective ARRI RAW header (the original ARRI RAW header optionally modified if the user has adjusted CCT, tint, sharpness, color space, etc.)
- ARRI RAW conversion parameters provided to the program converting the ARRI RAW image to the DPX image in which this chunk is embedded. These do not include modifications to the original header but are instead indicative of choices of debayering algorithm, downscaling performed, &c.
- (optionally, if there were user adjustments to its fields) the unmodified original ARRI RAW header

4. **Chunk layouts**

**Effective ARRI RAW header chunk layout**

The chunk size is 4136 (40+4096), the chunk identifier is “ARRI.RAWMETADATAV3”, the chunk data is the merger of the original ARRI RAW header and any user-indicated modifications.

**ARRI RAW conversion parameters chunk layout**

The chunk identifier is “ARRI.RAWRENDERER”. The chunk size is 145+n (40+4+100+n+1), where n is the cumulative length of a series of null-terminated character sequences. The chunk data is first a little-endian unsigned 32-bit integer version number, then a 100-character null- or buffer-terminated character sequence identifying the renderer, then a series of null-terminated “a=b” settings, and finally an additional trailing null. The example sequence of character sequences “foo=bar\0baz=quux\0” indicates the converter’s foo parameter was set to bar and that its baz parameter was set to quux. The chunk size would be 163 (40+4+100+18+1).

**Original ARRI RAW header chunk layout**

The chunk size is 4096, the chunk identifier is the string “ARRI.RAWMETADATAV3.ORIGINAL”, the chunk data is the original ARRI RAW header.