

SMPTE REGISTERED DISCLOSURE DOCUMENT



Interoperable Master Format – Application ProRes

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1 Scope

This document specifies an Application of the IMF framework specified in SMPTE ST 2067-2. The Application follows the Image Characteristics, Track File and Composition constraints specified in SMPTE ST 2067-21 whenever possible, and uses the Apple ProRes codec specified in SMPTE RDD 36.

2 Conformance Notation

Normative text is text that describes elements of the design that are indispensable or contains the conformance language keywords: "shall", "should", or "may". Informative text is text that is potentially helpful to the user, but not indispensable, and can be removed, changed, or added editorially without affecting interoperability. Informative text does not contain any conformance keywords.

All text in this document is, by default, normative, except: the Introduction, any section explicitly labeled as "Informative" or individual paragraphs that start with "Note:"

The keywords "shall" and "shall not" indicate requirements strictly to be followed in order to conform to the document and from which no deviation is permitted.

The keywords, "should" and "should not" indicate that, among several possibilities, one is recommended as particularly suitable, without mentioning or excluding others; or that a certain course of action is preferred but not necessarily required; or that (in the negative form) a certain possibility or course of action is deprecated but not prohibited.

The keywords "may" and "need not" indicate courses of action permissible within the limits of the document.

The keyword "reserved" indicates a provision that is not defined at this time, shall not be used, and may be defined in the future. The keyword "forbidden" indicates "reserved" and in addition indicates that the provision will never be defined in the future.

A conformant implementation according to this document is one that includes all mandatory provisions ("shall") and, if implemented, all recommended provisions ("should") as described. A conformant implementation need not implement optional provisions ("may") and need not implement them as described.

3 Normative References

The following standards contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent edition of the standards indicated below.

SMPTE RDD 36:2015, Apple ProRes Bitstream Syntax and Decoding Process

SMPTE RDD 44:2017, Material Exchange Format — Mapping and Application of Apple ProRes

SMPTE ST 2067-2:2016, Interoperable Master Format – Core Constraints

SMPTE ST 2067-21:2016, Interoperable Master Format – Application #2E

4 General

All provisions of SMPTE ST 2067-2 shall apply.

5 Image Essence

5.1 Characteristics

Image frames shall conform to the combinations of characteristics allowed in Table 1. The notation a..b indicates that any value between a and b, including a and b, is allowed.