

SMPTE STANDARD

Material Exchange Format — Mapping AES3 and Broadcast Wave Audio into the MXF Generic Container — Amendment 2



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Foreword

SMPTE (the Society of Motion Picture and Television Engineers) is an internationally-recognized standards developing organization. Headquartered and incorporated in the United States of America, SMPTE has members in over 80 countries on six continents. SMPTE's Engineering Documents, including Standards, Recommended Practices, and Engineering Guidelines, are prepared by SMPTE's Technology Committees. Participation in these Committees is open to all with a bona fide interest in their work. SMPTE cooperates closely with other standards-developing organizations, including ISO, IEC and ITU.

SMPTE Engineering Documents are drafted in accordance with the rules given in Part XIII of its Operating Manual.

Amendment 2 to SMPTE ST 382:2007 was prepared by Technology Committee 31FS.

1 Scope

Amend SMPTE ST 382:2007 to define constant duration audio Custom-Wrapping to distinguish this specific Custom-Wrapping from other Custom-Wrappings and to add Essence Container labels for signaling.

2 Add Constant Duration Audio Custom-Wrapping to Section 6.4

Append the following text to the end of Section 6.4 to define constant duration audio Custom-wrapping:

Constant duration audio Custom-Wrapping specifies that all audio elements shall contain exactly the same number of audio samples, such as one or two seconds or constant number of video frames. The number of audio samples may be different in the first and last elements in a file.

The constant duration custom-wrapped audio element shall use key values that indicate Custom-Wrapping and the essence shall be signaled by the Essence Container Labels for the constant duration Custom-Wrapped elements listed in Table 6.

3 Add Essence Container Label for Constant Duration Audio Custom-Wrapping to Table 6

Add Universal Labels for the constant duration audio Custom-wrapping to Table 6:

Table 6 – Specification of the Essence Container Label

Byte No.	Description	Value (hex)	Meaning
1-12	Defined by Generic Container		
13	Essence Container Kind	02h	MXF Generic Container
14	Mapping Kind	06h	AES-BWF as listed in the Labels Register defined by SMPTE ST 400
15		01h 02h 03h 04h 08h 09h 0Ah 0Bh	Wave Frame-Wrapped Element Wave Clip-Wrapped Element AES Frame-Wrapped Element AES Clip-Wrapped Element Wave Custom-Wrapped Element AES Custom-Wrapped Element Wave constant duration Custom-Wrapped Element AES constant duration Custom-Wrapped Element as listed in the Labels Register defined by SMPTE ST 400
16	Reserved	00h	