

SMPTE RECOMMENDED PRACTICE

VC-2 Level 66 Compression of Ultra-High Definition Video Sources for Use With a High Definition Infrastructure - Amendment 1



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Foreword

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Amendment 1 to SMPTE RP 2047-5:2017 was prepared by Technology Committee 10E.

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1 Scope

This Amendment changes the wavelet filter used in SMPTE RP 2047-5 from “LeGall (5.3)” to “Haar with no shift”.

Change instructions are shown in *italics*.

2 Amendment of Section 7.1 Overview (Informative)

Amend item 3 of section 7.1 as follows:

3. The codec uses only the Haar with no shift wavelet kernel.

3 Amendment of Section 7.3.3.1 Wavelet Filter

Amend section 7.3.3.1 as follows:

The wavelet filter shall be “Haar with no shift” filter (Wavelet index value = 3) as defined in SMPTE ST 2042-1:2017 Table 12.1.

4 Amendment of Section 7.3.3.3 Slice Coding Parameters

Amend the 7th paragraph of section 7.3.3.3 as follows:

The quantization matrix shall be the default quantization matrix corresponding to the Haar with no shift kernel as defined in SMPTE ST 2042-1:2017 Annex D, table D.4.

5 Amendment of Section A.6 Transform Parameters

Amend the first bullet point of section A.6 as follows:

- Wavelet Filter Index: Value = 3 Haar with no shift) VLC = 0b00001 Bits = 5

Amend the final paragraph of section A.6 as follows:

Concatenating the VLC above, padding with zeros to produce a whole number of bytes and converting to hexadecimal gives the byte sequence for the transform parameters: 0x08550600AB90 (6 bytes).