



International
Standard

ISO/IEC 23094-2

**Information technology – General
video coding —**

Part 2:

**Low complexity enhancement video
coding**

AMENDMENT 1: Additional levels

Technologies de l'information – Codage vidéo général —

Partie 2: Codage vidéo d'amélioration de faible complexité

AMENDEMENT 1: Niveaux supplémentaires

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This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

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Normative references

Replace "ITU-T H.273 | ISO/IEC 23091-2:2019" with "ITU-T H.273 | ISO/IEC 23091-2".

6.2

Replace:

The variables ShiftWidthC and ShiftHeightC are specified in Table 2, depending on the chroma format sampling structure, which is specified through chroma_format_idc and separate_colour_plane_flag. Other values of chroma_format_idc, ShiftWidthC and ShiftHeightC may be specified in the future by ISO/IEC.

with:

The variables ShiftWidthC and ShiftHeightC are specified in Table 2, depending on the chroma format sampling structure, which is specified through chroma_sampling_type.

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7.3.9

Replace Table 13 with the following table:

Table 13 — Process payload – surface

| Syntax | Descriptor |
|--|--------------|
| process_surface(surface) { | |
| if (surface.entropy_enabled_flag) { | |
| if (compression_type_size_per_tile == 0) { | |
| surface.size | mb |
| } | |
| if (surface.rle_only_flag) { | |
| surface.data_rle | surface.size |
| } else { | |
| surface.data_prefix_coding | surface.size |
| } | |
| } | |

7.3.12

Replace Table 16 with the following table:

Table 16 — Byte alignment syntax

| Syntax | Descriptor |
|---|------------|
| byte_alignment() { | |
| while(!byte_aligned()) | |
| alignment_bit_equal_to_zero /* equal to 0 */ | f(1) |
| } | |

7.4.2.2

In Table 19, replace "per picture (if no_enhancement_bit_flag == 0)" with:

per picture (if no_enhancement_bit_flag == 0 or temporal_signalling_present == 1)

Add the following sentence below Table 19:

If a NAL unit as specified in Sec. 7.3.2 contains more than one payload of the same payload_type (where payload_type is equal to 0, 1, or 2), the values given by the last payload of such payload_type within the NAL unit shall be used.

7.4.3.3

Replace

In order to prevent incomplete TUs, as defined in 6.3.2, custom_tile_width shall be an integer multiple of the TU size (nTbS = 2 if transform_type is equal to 0 and nTbS = 4 if transform_type is equal to 1) for each sub-layer and for each plane within a sub-layer.

with

In order to prevent incomplete entropy encoded quantized transform coefficient tiles, as defined in 9.1.1, custom_tile_width shall be an integer multiple of 64 for each sub-layer and for each plane within a sub-layer.

Replace

In order to prevent incomplete Tus, as defined in 6.3.2, custom_tile_height shall be an integer multiple of the TU size (nTbS = 2 if transform_type is equal to 0 and nTbS = 4 if transform_type is equal to 1) for each sub-layer and for each plane within a sub-layer.

with

In order to prevent incomplete entropy encoded quantized transform coefficient tiles, as defined in 9.1.1, custom_tile_height shall be an integer multiple of 64 for each sub-layer and for each plane.

Replace

planes_type specifies the planes to be processed by the decoder according to Table 25.

with

planes_type specifies the planes to be processed by the decoder according to Table 25. If chroma_sampling_type is equal to 0, planes_type shall be equal to 0.