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TECHNICAL CORRIGENDUM 3

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Information technology — JPEG 2000 image coding system —

Part 1:
Core coding system

TECHNICAL CORRIGENDUM 3

Technologies de l'information — Système de codage d'image JPEG 2000 —

Partie 1: Système de codage de noyau

RECTIFICATIF TECHNIQUE 3

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INFORMATION TECHNOLOGY – JPEG 2000 IMAGE CODING SYSTEM - CORE CODING SYSTEM

TECHNICAL CORRIGENDUM 3

1) In Annex B.6, between paragraphs 3 and 4, p. 64, add
"It can happen that *numprecincts* is 0 for a particular tile-component and resolution level. When this happens, there are no packets for this tile-component and resolution level."

2) In Annex F.3.8.2, paragraph 3, p. 123, change

"Firstly, step 1 is performed for all values of n such that $\left\lfloor \frac{i_0}{2} \right\rfloor - 1 \le n < \left\lfloor \frac{i_1}{2} \right\rfloor + 2$, and step 2 is performed for all values of n such that $\left\lfloor \frac{i_0}{2} \right\rfloor - 1 \le n < \left\lfloor \frac{i_1}{2} \right\rfloor + 1$."

to

"Firstly, step 1 is performed for all values of n such that $\left\lfloor \frac{i_0}{2} \right\rfloor - 1 \le n < \left\lfloor \frac{i_1}{2} \right\rfloor + 2$, and step 2 is performed for all values of n such that $\left\lfloor \frac{i_0}{2} \right\rfloor - 2 \le n < \left\lfloor \frac{i_1}{2} \right\rfloor + 2$."

3) In Annex F.4.8.2, paragraph 7, p. 132, change

"Finally, step 5 is performed for all values of n such that $\left\lfloor \frac{i_0}{2} \right\rfloor - 1 \le n < \left\lfloor \frac{i_1}{2} \right\rfloor$ and uses values calculated at step 3, and step 6 is performed for all values of n such that $\left\lfloor \frac{i_0}{2} \right\rfloor \le n < \left\lfloor \frac{i_1}{2} \right\rfloor$ and uses values calculated at step 4."

to

"Finally, step 5 is performed for all values of n such that $\left\lfloor \frac{i_0}{2} \right\rfloor \le n < \left\lfloor \frac{i_1}{2} \right\rfloor$ and uses values calculated at step 3, and step 6 is performed for all values of n such that $\left\lceil \frac{i_0}{2} \right\rceil \le n < \left\lceil \frac{i_1}{2} \right\rceil$ and uses values calculated at step 4."

4) In Annex I.5.3.5, paragraph 2, change
"If the JP2 Header box contains a Palette box, then the JP2 Header box shall also contain a Component Mapping box. If the JP2 Header box does not contain a Palette box, then the JP2 Header box shall not contain a Component Mapping box. In this case, the components shall be mapped directly to channels, such that component *i* is mapped to channel *i*."
to
"If the JP2 Header box contains a Palette box, then the JP2 Header box shall also contain a Component Mapping box. If the JP2 Header box does not contain a a Component Mapping box, the components shall be mapped directly to channels, such that component *i* is mapped to channel *i*."

5) In Annex I.5.3.5, Table I-15, Value field for CMP^i, change:
"1 — 16 384"
to
"0 — 16 384"

6) In Annex I.5.3.6, paragraph 2, last sentence, p. 167, change
"This box may specify multiple descriptions for a single channel; however, the type value in each description for the same channel shall be the same in all descriptions."
to
"This box may specify multiple descriptions for a single channel."

and

In Annex I.5.3.6, paragraph 10, p.167, change
"In this box, channel indices are mapped from particular components within the codestream or palette. Colour indices specify how that channel shall be interpreted based on the specification of the colourspace of the image."
to
"In this box, channel indices are mapped from particular components within the codestream or palette. Colour indices specify how a particular channel shall be interpreted based on the specification of the colourspace of the image. There shall be one channel definition in this box for every colour required by the colourspace specification of this file as specified by the Colourspace Specification box."

and

Delete Annex I.5.3.6, the last sentence starting above Table I-18 and finishing between the tables I-18 and I-19, p. 169 "However, if this file contains a Palette box, the component specified as input to the palette in the Component Mapping box is not itself directly assigned to a channel and thus shall not be listed in the Channel Definition box"

This change is because this paragraph is ambiguous and does not practically provide any restriction of the interpretation of a JP2 file. The Channel Definition box takes channels, not components as input, so it is not possible to refer to a component that wasn't mapped by the Component Mapping box.

7) In Annex J.9.3, Equation J.9, p. 204, in all 3 places change the exponent of $slinear_x$ is shown as
"1,0 2,4"
to
"1,0 / 2,4"

