



INTERNATIONAL STANDARD ISO/IEC 15444-1:2004
TECHNICAL CORRIGENDUM 1

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Information technology — JPEG 2000 image coding system: Core coding system

TECHNICAL CORRIGENDUM 1

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

RECTIFICATIF TECHNIQUE 1

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ITU-T RECOMMENDATIONInformation technology – JPEG 2000 image coding system:
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1) Table I.2

Replace the Image Header box Comments field with the following text:

This box specifies aspects of the reference grid geometry, number of components and bit depth.

2) Annex I.5.3

Replace the second sentence of the *ihdr* item with the following text:

This box specifies information about the reference grid geometry, bit depth, and number of components.

3) Annex I.5.3.1

a) Add the following paragraph to the end of the *HEIGHT* item:

The *HEIGHT* is not always the same as the default image height. See I.5.3.1.1 for formulae specifying the default image dimensions when no other rendering information is present. The *HEIGHT* value will always be an upper bound on the default image height.

b) Add the following paragraph to the end of the *WIDTH* item:

The *WIDTH* is not always the same as the default image width. See I.5.3.1.1 for formulae specifying the default image dimensions when no other rendering information is present. The *WIDTH* value will always be an upper bound on the default image width.

c) Add a new clause I.5.3.1.1

I.5.3.1.1 Default Image Dimensions

In instances where only image samples for individual components are needed, refer directly to the component sample dimension equation B-2.

However, when some rendering is required, lacking other rendering or expansion directives, the default image dimensions aim to maintain the image area aspect ratio and are computed from the codestream *SIZ* marker as a function of, M , the greatest common divisor (gcd) of all the subsampling factors (XR_{siz}^c , YR_{siz}^c) for all components of the image. Specifically:

$$M = \text{gcd}\{XR_{siz}^c, YR_{siz}^c \mid \text{for all } c, 0 \leq c < C_{siz}\} \quad (\text{I-1})$$

And the default image dimensions are:

$$(\text{width, height}) = \left(\left\lceil \frac{X_{siz}}{M} \right\rceil - \left\lceil \frac{XO_{siz}}{M} \right\rceil, \left\lceil \frac{Y_{siz}}{M} \right\rceil - \left\lceil \frac{YO_{siz}}{M} \right\rceil \right) \quad (\text{I-2})$$