



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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INTERNATIONAL STANDARD
ITU-T RECOMMENDATION

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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:

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

And the default image dimensions are:

$$(\text{width}, \text{height}) = \left(\left\lceil \frac{Xsiz}{M} \right\rceil - \left\lceil \frac{XOsiz}{M} \right\rceil, \left\lceil \frac{Ysiz}{M} \right\rceil - \left\lceil \frac{YOsiz}{M} \right\rceil \right) \quad (\text{I-2})$$