



**INTERNATIONAL STANDARD ISO/IEC 15444-2:2004**  
**TECHNICAL CORRIGENDUM 4**

Published 2007-09-01

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION  
INTERNATIONAL ELECTROTECHNICAL COMMISSION • МЕЖДУНАРОДНАЯ ЭЛЕКТРОТЕХНИЧЕСКАЯ КОМИССИЯ • COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

## **Information technology — JPEG 2000 image coding system: Extensions**

### **TECHNICAL CORRIGENDUM 4**

*Technologies de l'information — Système de codage d'images JPEG 2000: Extensions*

*RECTIFICATIF TECHNIQUE 4*

Technical Corrigendum 4 to ISO/IEC 15444-2:2004 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*, in collaboration with ITU-T. The identical text is published as ITU-T Rec. T.801 (2002)/Cor.4 (05/2006).

IECNORM.COM : Click to view the full PDF of ISO/IEC 15444-2:2004/COR4:2007

**INTERNATIONAL STANDARD  
ITU-T RECOMMENDATION**

**Information technology – JPEG 2000 image coding system: Extensions**

**Technical Corrigendum 4**

**1) Clause M.8**

Add the following additional bullet item after the first item:

- The MinV field in the File Type box shall be set to 1, indicating a minor revision to the standard.

**2) Clause M.11.1**

a) Add the following two paragraphs after the first paragraph:

All features specified are in addition to the features defined by the JP2 file format and JPEG 2000 codestream profile 0; it is assumed that any reader capable of reading a JPX file is also capable of understanding every feature defined in the JP2 file format and decoding a JPEG 2000 profile 0 codestream.

This box shall contain an accurate specification, to the extent as known by the writer, of all features in the file and an accurate specification of the set or sets of features required to display the image as intended by the writer.

NOTE – If a JPX file contains no features other than those defined by the JP2 file format and JPEG 2000 codestream profile 0, or if the reader does not know of any features contained in the file beyond those base features, the Reader Requirements box will list zero standard features and zero vendor features.

Many features from previous revisions of this Recommendation | International Standard have been deprecated. Writers shall not include these features when creating or updating files. Readers shall ignore the contribution of those features when determining whether they can or cannot read the file.

b) Replace all instances of "Decode Completely" with "Display Contents".

**3) Table M.14**

Replace the entire Table M.14 with the following table. The following features only list specific, non-divisible features (no "negative" features as in the original version, and no feature combinations).

**Table M.14 – Legal values of the SF<sup>i</sup> field**

| Value | Meaning                                                                                                   |
|-------|-----------------------------------------------------------------------------------------------------------|
| 0     | File not completely understood                                                                            |
| 1     | Deprecated                                                                                                |
| 2     | Contains multiple composition layers                                                                      |
| 3     | Deprecated                                                                                                |
| 4     | JPEG 2000 Part 1 Profile 1 codestream as defined in ITU-T Rec. T.800   ISO/IEC 15444-1, A.10, Table A.45  |
| 5     | Unrestricted JPEG 2000 Part 1 codestream as defined in ITU-T Rec. T.800   ISO/IEC 15444-1                 |
| 6     | Unrestricted JPEG 2000 Part 2 codestream as defined in this Recommendation   International Standard       |
| 7     | JPEG codestream as defined in ISO/IEC 10918-1                                                             |
| 8     | Deprecated                                                                                                |
| 9     | Non-premultiplied opacity channel                                                                         |
| 10    | Premultiplied opacity channel                                                                             |
| 11    | Chroma-key based opacity                                                                                  |
| 12    | Deprecated                                                                                                |
| 13    | Fragmented codestream where all fragments are in the file and in order                                    |
| 14    | Fragmented codestream where all fragments are in the file but are out of order                            |
| 15    | Fragmented codestream where not all fragments are within the file but all are in locally accessible files |

Table M.14 – Legal values of the SF<sup>i</sup> field

| Value | Meaning                                                                                                                        |
|-------|--------------------------------------------------------------------------------------------------------------------------------|
| 16    | Fragmented codestream where some fragments may be accessible only through a URL specified network connection                   |
| 17    | Compositing required to produce rendered result from multiple compositing layers                                               |
| 18    | Deprecated                                                                                                                     |
| 19    | Deprecated                                                                                                                     |
| 20    | Deprecated                                                                                                                     |
| 21    | At least one compositing layer consists of multiple codestreams                                                                |
| 22    | Deprecated                                                                                                                     |
| 23    | Colourspace transformations are required to combine compositing layers; not all compositing layers are in the same colourspace |
| 24    | Deprecated                                                                                                                     |
| 25    | Animation                                                                                                                      |
| 26    | First animation layer does not cover entire rendered result area                                                               |
| 27    | Deprecated                                                                                                                     |
| 28    | Reuse of animation layers                                                                                                      |
| 29    | Deprecated                                                                                                                     |
| 30    | Some animated frames are non-persistent                                                                                        |
| 31    | Deprecated                                                                                                                     |
| 32    | Rendered result involves scaling within a layer                                                                                |
| 33    | Rendered result involves scaling between layers                                                                                |
| 34    | ROI metadata                                                                                                                   |
| 35    | IPR metadata                                                                                                                   |
| 36    | Content metadata                                                                                                               |
| 37    | History metadata                                                                                                               |
| 38    | Creation metadata                                                                                                              |
| 39    | JPX digital signatures                                                                                                         |
| 40    | JPX checksums                                                                                                                  |
| 41    | Desired Graphic Arts reproduction specified                                                                                    |
| 42    | Deprecated                                                                                                                     |
| 43    | Deprecated                                                                                                                     |
| 44    | Compositing layer uses Any ICC profile                                                                                         |
| 45    | Deprecated                                                                                                                     |
| 46    | Deprecated                                                                                                                     |
| 47    | BiLevel 1 enumerated colourspace                                                                                               |
| 48    | BiLevel 2 enumerated colourspace                                                                                               |
| 49    | YCbCr 1 enumerated colourspace                                                                                                 |
| 50    | YCbCr 2 enumerated colourspace                                                                                                 |
| 51    | YCbCr 3 enumerated colourspace                                                                                                 |
| 52    | PhotoYCC enumerated colourspace                                                                                                |
| 53    | YCKK enumerated colourspace                                                                                                    |
| 54    | CMY enumerated colourspace                                                                                                     |
| 55    | CMYK enumerated colourspace                                                                                                    |
| 56    | CIELab enumerated colourspace with default parameters                                                                          |
| 57    | CIELab enumerated colourspace with non-default parameters                                                                      |
| 58    | CIEJab enumerated colourspace with default parameters                                                                          |