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: Core coding system —

Part 1:

TECHNICAL CORRIGENDUM 4

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

Partie 1:

RECTIFICATIF TECHNIQUE 4

Technical Corrigendum 4 to ISO/IEC 15444-1:2004 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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1) In subclause A.2 (Table A.2, 16ᵗʰ to 21ˢᵗ row) change

Pointer marker segments	TLM	0xFF55	optional	not allowed
Tile-part lengths	PLM	0xFF57	optional	not allowed
Packet length, main header	PLT	0xFF58	not allowed	optional
Packet length, tile-part header	PPM	0xFF60	optional	not allowed
Packed packet headers, main header[c]	PPT	0xFF61	not allowed	optional
Packed packet headers, tile-part header[c]	TLM	0xFF55	optional	not allowed

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to

Pointer marker segments				
Tile-part lengths	TLM	0xFF55	optional	not allowed
Packet length, main header	PLM	0xFF57	optional	not allowed
Packet length, tile-part header	PLT	0xFF58	not allowed	optional
Packed packet headers, main header[c)]	PPM	0xFF60	optional	not allowed
Packed packet headers, tile-part header[c)]	PPT	0xFF61	not allowed	optional

2) In subclause B.3 (Figure B.3, description of sample coordinate) change

For (XRsiz, YRsiz) = (3,2):

$$(x_0, y_0) = \left(\left\lceil \frac{3}{2} \right\rceil, \left\lceil \frac{2}{2} \right\rceil \right) = (1,1)$$

to

For (XRsiz, YRsiz) = (3,2):

$$(x_0, y_0) = \left(\left\lceil \frac{3}{3} \right\rceil, \left\lceil \frac{2}{2} \right\rceil \right) = (1,1)$$

3) In subclause B.3 (Equation B-6) change

$$p = mod(t, numXtiles) \qquad q = \left\lceil \frac{t}{numXtiles} \right\rceil$$

to

$$p = mod(t, numXtiles) \qquad q = \left\lfloor \frac{t}{numXtiles} \right\rfloor$$

4) In subclause C.2.4 (Figure C.7, 2nd conditional symbol) change

"A<Qe(I(CX))"

to

"A<Qe(I(CX))?"

5) In subclause C.2.7 (Figure C.9, 2nd generic processing step) change

"C=C AND 0x7FFFFFF?"
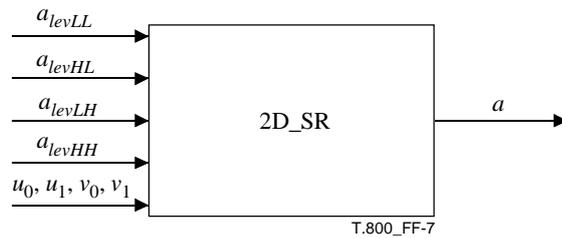
to

"C=C AND 0x7FFFFFF"

6) In subclause C.2.7 (Figure C.9, 4th generic processing step on the right side) change

"BP=B+1
B=C>>20
C=C AND 0xFFFF
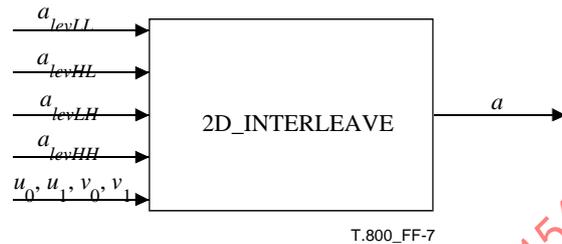CT=7"

to

"BP=B+1
B=C>>20
C=C AND 0xFFFFF
CT=7"

7) In subclause F.3.3 (Figure F.7) change

T.800_FF-7

to

T.800_FF-7

8) In subclasue F3.6 (2nd paragraph) change

"For signals of length one (i.e., $i_0 = i_1 - 1$), the 1D_SR procedure sets the value of $X(i_0)$ to $X(i_0)$ if i_0 is an even integer, and to $X(i_0) = Y(i_0)/2$ if i_0 is an odd integer."
to
"For signals of length one (i.e., $i_0 = i_1 - 1$), the 1D_SR procedure sets the value of $X(i_0)$ to $Y(i_0)$ if i_0 is an even integer, and $X(i_0)$ to $Y(i_0)/2$ if i_0 is an odd integer."

9) In subclause F3.7 (last paragraph) change

"Values equal to or greater than those given in Tables F.2 and F.3 will produce the same array X at the output of the 1D_IFILTR procedure of Figure F.14."
to
"Values equal to or greater than those given in Tables F.2 and F.3 will produce the same array X at the output of the 1D_FILTR procedure of Figure F.14."

10) In subclasue 3.8 (Figure F.16, title) change

"Figure F.16 – Parameters of the ID_FILTR procedure"

to

"Figure F.16 – Parameters of the 1D_FILTR procedure"

11) In subclause F.3.8.1 (first paragraph) change

"The 1D_FILT5-3R procedure uses lifting-based filtering in conjunction with rounding operations."
to
"The 1D_FILT$_{5-3R}$ procedure uses lifting-based filtering in conjunction with rounding operations."

12) In subclause F.3.8.2 (last paragraph) change

"The values of $X(k)$ are such that $i_0 \leq k < i_1$ form the output of the 1D_FILTR$_I$ procedure."
to
"The values of $X(k)$ are such that $i_0 \leq k < i_1$ form the output of the 1D_FILTR$_{9-7I}$ procedure."

13) In subclause F.4.1 (Figure F.19, 1st generic processing step) change

$$lev1 =$$
$$a_{0LL}(u, v) = I(u, v)$$

to

$$lev = 1$$
$$a_{0LL}(u, v) = I(u, v)$$

14) In subclause F.4.8.1 (Equation F-9) change

$$Y(2n+1) = X_{ext}(2n+1) - \left\lfloor \frac{X_{ext}(2n) + X_{ext}(2n+2)}{4} \right\rfloor$$

to

$$Y(2n+1) = X_{ext}(2n+1) - \left\lfloor \frac{X_{ext}(2n) + X_{ext}(2n+2)}{2} \right\rfloor$$

15) In subclause F.4.8.1 (last paragraph) change

"The values of $Y(k)$ such that $i_0 \leq k \, i_1$ form the output of the 1D_FILTD$_R$ procedure."
to
"The values of $Y(k)$ such that $i_0 \leq k \, i_1$ form the output of the 1D_FILTD$_{5-3R}$ procedure."

16) In subclause F.4.8.2 (title) change

"The 1D_FILTD$_I$ procedure (informative)"
to
"The 1D_FILTD$_{9-7I}$ procedure (informative)"

17) In subclause F.4.8.2 (last paragraph) change

"The values of such that $i_0 \leq k < i_1$ form the output of the 1D_FILTD$_I$ procedure."
to
"The values of such that $i_0 \leq k < i_1$ form the output of the 1D_FILTD$_{9-7I}$ procedure."

18) In subclause J.4.1 (Table J.7, 3rd row) change

$a_{2HH}(u, v)$	0	1	2
0	−1	0	0
1	0	1	0
2	0	0	0
3	0	0	0