INTERNATIONAL STANDARD ISO/IEC 14496-12:2008
TECHNICAL CORRIGENDUM 2

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Information technology — Coding of audio-visual objects —

Part 12:
ISO base media file format

TECHNICAL CORRIGENDUM 2

Technologies de l'information — Codage des objets audiovisuels —

Partie 12: Format ISO de base pour les fichiers médias

RECTIFICATIF TECHNIQUE 2

Technical Corrigendum 2 to ISO/IEC 14496-12:2008 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

Page 12, 6.3, replace the entire subclause with the following:

The definitions of the brands that that apply to the file format are given in Annex E.

Page 25, 8.5.2.1 after paragraph eight,

If the 'format' field of a SampleEntry is unrecognized, neither the sample description itself, nor the associated media samples, shall be decoded.

insert the following note:

NOTE The definition of sample entries specifies boxes in a particular order, and this is usually also followed in derived specifications. For maximum compatibility, writers should construct files respecting the order both within specifications and as implied by the inheritance, whereas readers should be prepared to accept any box order.

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Page 26, 8.5.2.1, paragraph 13, after the second sentence add the following new sentence (shown highligted grey):

The pixel aspect ratio and clean aperture of the video may be specified using the 'pasp' and 'clap' sample entry boxes, respectively. These are both optional; if present, they over-ride the declarations (if any) in structures specific to the video codec, which structures should be examined if these boxes are absent. For maximum compatibility, these boxes should follow, not precede, any boxes defined in or required by derived specifications.

Page 28, 8.5.2.2, insert a new line (shown highlighted grey) into the following VisualSampleEntry:

```
class VisualSampleEntry(codingname) extends SampleEntry (codingname){
   unsigned int(16) pre_defined = 0;
   const unsigned int(16) reserved = 0;
   unsigned int(32)[3]  pre_defined = 0;
   unsigned int(16)  width;
   unsigned int(16)  height;
   template unsigned int(32)  horizresolution = 0x00480000;      // 72 dpi
   template unsigned int(32)  vertresolution  = 0x00480000;      // 72 dpi
   const unsigned int(32)  reserved = 0;
   template unsigned int(16)  frame_count = 1;
   string[32]  compressorname;
   template unsigned int(16)  depth = 0x0018;
   int(16)  pre_defined = -1;
   // other boxes from derived specifications
   CleanApertureBox     clap; // optional
   PixelAspectRatioBox  pasp;    // optional
}
```

Page 102, at the end of E.1, add the following paragraph:

More specific identifiers can be used to identify precise versions of specifications providing more detail. These brand should not be used as the major brand; this base file format should be derived into another specification to be used. There is therefore no defined normal file extension, or mime type assigned to these brands, nor definition of the minor version when one of these brands is the major brand.

Page 103, at the beginning of E.2, add the following paragraph:

The type 'isom' (ISO Base Media file) is defined in this section of this specification, as identifying files that conform to the first version of ISO Base Media File Format.

Page 104, at the beginning of E.3, add the following paragraph:

The brand 'avc1' shall be used to indicate that the file is conformant with the 'AVC Extensions' in 8.6.4 and 8.9. If used without other brands, this implies that support for those extensions is required. The use of 'avc1' as a major-brand may be permitted by specifications; in that case, that specification defines the file extension and required behaviour.

Page 104, at the beginning of E.4, add the following paragraph:

The brand 'iso2' shall be used to indicate compatibility with the second version of the ISO Base Media File Format; it may be used in addition to or instead of the 'isom' brand and the same usage rules apply. If used without the brand 'isom' identifying the first version of this specification, it indicates that support for some or all of the functionality in 8.6.4, 8.9, 8.11.1 through 8.11.7, 8.11.10, 8.12, or the SRTP support in subclause 9.1, is required.

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