



INTERNATIONAL STANDARD ISO/IEC 14496-12:2012 TECHNICAL CORRIGENDUM 4

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Information technology — Coding of audio-visual objects — Part 12: ISO base media file format

TECHNICAL CORRIGENDUM 4

Technologies de l'information — Codage des objets audiovisuels —

Partie 12: Format ISO de base pour les fichiers médias

RECTIFICATIF TECHNIQUE 4

Technical Corrigendum 4 to ISO/IEC 14496-12:2012 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

In subclause 8.3.2.3, add to the flags definition:

`track_size_is_aspect_ratio`: indicates that the `width` and `height` fields are not expressed in pixel units. The values have the same units but these units are not specified. The values are only an indication of the desired aspect ratio. If the aspect ratios of this track and other related tracks are not identical, then the respective positioning of the tracks is undefined, possibly defined by external contexts. Flag value is 0x000008.

In subclause 8.3.2.3, replace:

`width` and `height` specify the track's visual presentation size as fixed-point 16.16 values. These need not be the same as the pixel dimensions of the images, which is documented in the sample description(s); all images in the sequence are scaled to this size, before any overall transformation of the track represented by the matrix. The pixel dimensions of the images are the default values.

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with:

the width and height fixed-point 16.16 values are track-dependent as follows:

For text and subtitle tracks, they may, depending on the coding format, describe the suggested size of the rendering area. For such tracks, the value 0x0 may also be used to indicate that the data may be rendered at any size, that no preferred size has been indicated and that the actual size may be determined by the external context or by reusing the width and height of another track. For those tracks, the flag `track_size_is_aspect_ratio` may also be used.

For non-visual tracks (e.g. audio), they should be set to zero.

For all other tracks, they specify the track's visual presentation size. These need not be the same as the pixel dimensions of the images, which is documented in the sample description(s); all images in the sequence are scaled to this size, before any overall transformation of the track represented by the matrix. The pixel dimensions of the images are the default values.

In subclause 8.3.3.3, add the following point in the reference_type bullet points list:

- 'subt' this track contains subtitle, timed text or overlay graphical information for the referenced track or any track in the alternate group to which the track belongs, if any.