
**Information technology — JPEG 2000
image coding system —**

**Part 12:
ISO base media file format**

**AMENDMENT 1: Various enhancements
including support for large metadata**

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

Partie 12: Format ISO de base pour les fichiers médias

*AMENDEMENT 1: Plusieurs améliorations, y compris un support pour
métadonnées volumineuses*





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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

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Foreword

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The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

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Amendment 1 to ISO/IEC 15444-12:2012 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

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AMENDMENT 1: Various enhancements including support for large metadata

In 8.6.1.4.1, add Track Extension Properties Box ('trep') as a container box as follows:

Box Type: 'cslg'
 Container: Sample Table Box ('stbl') or Track Extension Properties Box ('trep')
 Mandatory: No
 Quantity: Zero or one

Add the following sentence after the sentence starting with "When the Composition to Decode Box is included in the Sample Table Box":

When the Composition to Decode Box is included in the Track Extension Properties Box, it documents the composition and decoding time relations of the samples in all movie fragments following the Movie Box.

In 8.8, add the following Subclauses:

8.8.12 Track Extension Properties Box

8.8.12.1 Definition

Box Type: 'trep'
 Container: Movie Extends Box ('mvex')
 Mandatory: No
 Quantity: Zero or more. (Zero or one per track)

This box can be used to document or summarize characteristics of the track in the subsequent movie fragments. It may contain any number of child boxes.

8.8.12.2 Syntax

```
class TrackExtensionPropertiesBox extends FullBox('trep', 0, 0) {
    unsigned int(32) track_id;
    // Any number of boxes may follow
}
```

8.8.12.3 Semantics

`track_id` indicates the track for which the track extension properties are provided in this box.

Add the following Subclauses:

8.8.13 Alternative Startup Sequence Properties Box

8.8.13.1 Definition

Box Type: 'assp'
 Container: Track Extension Properties Box ('trep')
 Mandatory: No
 Quantity: Zero or one

This box indicates the properties of alternative startup sequence sample groups in the subsequent track fragments of the track indicated in the containing Track Extension Properties box.

Version 0 of the Alternative Startup Sequence Properties box shall be used if version 0 of the Sample to Group box is used for the alternative startup sequence sample grouping. Version 1 of the Alternative Startup Sequence Properties box shall be used if version 1 of the Sample to Group box is used for the alternative startup sequence sample grouping.

8.8.13.2 Syntax

```
class AlternativeStartupSequencePropertiesBox extends FullBox('assp', version, 0)
{
    if (version == 0) {
        signed int(32)    min_initial_alt_startup_offset;
    }
    else if (version == 1) {
        unsigned int(32)  num_entries;
        for (j=1; j <= num_entries; j++) {
            unsigned int(32) grouping_type_parameter;
            signed int(32)    min_initial_alt_startup_offset;
        }
    }
}
```

8.8.13.3 Semantics

`min_initial_alt_startup_offset`: No value of `sample_offset[ 1 ]` of the referred sample group description entries of the alternative startup sequence sample grouping shall be smaller than `min_initial_alt_startup_offset`. In version 0 of this box, the alternative startup sequence sample grouping using version 0 of the Sample to Group box is referred to. In version 1 of this box, the alternative startup sequence sample grouping using version 1 of the Sample to Group box is referred to as further constrained by `grouping_type_parameter`.

`num_entries` indicates the number of alternative startup sequence sample groupings documented in this box.

`grouping_type_parameter` indicates which one of the alternative sample groupings this loop entry applies to.

In 8.11.3.1 Definition, replace:

The box starts with three or four values, specifying the size in bytes of the `offset` field, `length` field, `base_offset` field, and, in version 1 of this box, the `extent_index` fields, respectively. These values must be from the set {0, 4, 8}.

with:

The box starts with three or four values, specifying the size in bytes of the `offset` field, `length` field, `base_offset` field, and, in versions 1 and 2 of this box, the `extent_index` fields, respectively. These values must be from the set {0, 4, 8}.