



INTERNATIONAL STANDARD ISO/IEC 14496-15:2010
TECHNICAL CORRIGENDUM 1

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION
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Information technology — Coding of audio-visual objects —
Part 15:
Advanced Video Coding (AVC) file format

TECHNICAL CORRIGENDUM 1

Technologies de l'information — Codage des objets audiovisuels

Partie 15: Format de fichier de codage vidéo avancé (AVC)

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO/IEC 14496-15:2010 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

In 5.2.4.1, add at the end:

NOTE – the profile identified by profile_idc value 144 is deprecated in ISO/IEC 14496-10.

Throughout the document, where the string “Quantity:” is followed by two tabs, delete one tab. In the document styles, set a left tab for the ‘Atom’ style at 1 inch.

In 5.3.12.1, replace:

Layer and sub-sequences are represented in the AVC file format as Sample Group. An AVC file shall contain zero or one instance of a SampleGroupBox (per track) with a grouping_type equal to 'avll'. This SampleGroupBox instance represents the assignment of samples in a track to layers. An accompanying instance of the SampleGroupDescriptionBox with the same grouping type shall, if it exists, contain AVCLayerEntry sample group entries describing the layers. Similarly, an AVC file shall contain zero or one instance of a SampleGroupBox (per track) with a grouping_type equal to 'avss'. This SampleGroupBox instance represents the assignment of samples in a track to sub-sequences. An accompanying instance of the SampleGroupDescriptionBox with the same grouping type shall, if it exists, contain AVCSubSequenceEntry sample group entries describing the sub-sequences.

with:

Layer and sub-sequences are represented in the AVC file format as Sample Group. An AVC file shall contain zero or one instance of a SampleToGroupBox (per track) with a grouping_type equal to 'avll'. This SampleToGroupBox instance represents the assignment of samples in a track to layers. An accompanying instance of the SampleGroupDescriptionBox with the same grouping type shall, if it exists, contain AVCLayerEntry sample group entries describing the layers. Similarly, an AVC file shall contain zero or one instance of a SampleToGroupBox (per track) with a grouping_type equal to 'avss'. This SampleToGroupBox instance represents the assignment of samples in a track to sub-sequences. An accompanying instance of the SampleGroupDescriptionBox with the same grouping type shall, if it exists, contain AVCSubSequenceEntry sample group entries describing the sub-sequences.

In 5.3.12.2, replace:

At most one partition of an AVC stream into layers shall exist in the AVC file format; that is, there is either zero or one instances of the sample group boxes (SampleGroupBox, SampleGroupDescriptionBox) per track concerning the grouping of samples into layers and sub-sequences.

with:

At most one partition of an AVC stream into layers shall exist in the AVC file format; that is, there is either zero or one instances of the sample group boxes (SampleToGroupBox, SampleGroupDescriptionBox) per track concerning the grouping of samples into layers and sub-sequences.

In A.6.3.1.3, replace:

PriorityAssignmentURI provides a unique name of the method used to assign priority_id values. In the case of absence of this box, the priority assignment method is unknown.

with:

PriorityAssignmentURI provides a unique name of the method used to assign priority_id values. In the case of absence of this box, the priority assignment method is unknown.

In C.2.11.3.1, replace:

Group Type: 'mvif'
 Container: Sample Group Description Box ('sgpd')
 Mandatory: No
 Quantity: Zero or More

with:

Group Type: 'mvif'
 Container: Sample Group Description Box ('sgpd')
 Mandatory: No
 Quantity: Zero or More

In F.7.3.1.3.1, replace:

Box Type: 'vwid'
 Container: Sample Entry ('avc1', 'avc2', 'mvc1', 'mvc2') or MultiviewGroupEntry
 Mandatory: Yes (for sample entries and the primary group definition in Multiview Group entries)
 Quantity: Exactly one (for sample entries and the primary group definition in Multiview Group entries)
 Zero for non-primary group definitions in Multiview Group entries

with

Box Type: 'vwid'
 Container: Sample Entry ('avc1', 'avc2', 'mvc1', 'mvc2') or MultiviewGroupEntry
 Mandatory: Yes (for sample entries and the primary group definition in Multiview Group entries)
 Quantity: Exactly one (for sample entries and the primary group definition in Multiview Group entries)
 Zero for non-primary group definitions in Multiview Group entries

In F.8.3.2, replace:

```
aligned(8) class MultiviewGroupBox extends FullBox('mvcg', version = 0, flags) {
    unsigned int(32) multiview_group_id;
    unsigned int(16) num_entries;
    unsigned int(8) entry_type;
    for(i=0; i<num_entries; i++) {
        unsigned int(8) entry_type;
        if (entry_type == 0)
            unsigned int(32) track_id;
        else if (entry_type == 1) {
            unsigned int(32) track_id;
            unsigned int(16) tier_id;
        }
        else if (entry_type == 2) {
            unsigned int(6) reserved1 = 0;
            unsigned int(10) output_view_id;
        }
        else if (entry_type == 3) {
            unsigned int(6) reserved2 = 0;
            unsigned int(10) start_view_id;
            unsigned int(16) view_count;
        }
    }
    TierInfoBox subset_stream_info; // optional
    MultiviewRelationAttributeBox relation_attributes; // optional
    TierBitRateBox subset_stream_bit_rate; // optional
    BufferingBox subset_stream_buffering; // optional
    MultiviewSceneInfoBox multiview_scene_info; // optional
}
```