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

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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*.

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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 prioritiy_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
}
```