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**Email of Convenor:** young.L @ samsung . com

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**ISO/IEC JTC 1/SC 29/WG 03 MPEG SYSTEMS**

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# The ‘codecs’ parameter values for MPEG-4 codecs

**Abstract**

This document contains the MIME registration information for the codecs parameter, specific to MP4 codecs. It needs placing into 14496-14 in a suitable place at a suitable time.

### xxx.1 The ‘codecs’ parameter values for MPEG-4 codecs

When the first element of a value is 'mp4a' (indicating some kind of MPEG-4 audio), or 'mp4v' (indicating some kind of MPEG-4 part-2 video), or 'mp4s' (indicating some kind of MPEG-4 Systems streams such as MPEG-4 BInary Format for Scenes (BIFS)), the second element is the hexadecimal representation of the MP4 Registration Authority ObjectTypeIndication (OTI), as specified in [[MP4RA](https://tools.ietf.org/html/rfc6381#ref-MP4RA)] and this specification. Note that [[MP4RA](https://tools.ietf.org/html/rfc6381#ref-MP4RA)] uses a leading "0x" with these values, which is omitted here and hence implied.

One of the OTI values for 'mp4a' is 40 (identifying MPEG-4 audio). For this value, the third element identifies the Audio Object Type (AOT) as defined in [[MP4A](https://tools.ietf.org/html/rfc6381#ref-MP4A)] (including amendments), expressed as a decimal number.

For example, AAC low complexity (AAC-LC) has the AOT value 2, so a complete string for AAC-LC would be "mp4a.40.2".

One of the OTI values for 'mp4v' is 20 (identifying MPEG-4 part-2 video). For this value, the third element identifies the video ProfileLevelIndication as defined in [[MP4V](https://tools.ietf.org/html/rfc6381#ref-MP4V)] (including amendments), expressed as a decimal number.

For example, MPEG-4 Visual Simple Profile Level 0 has the value 8, so a complete string for MPEG-4 Visual Simple Profile Level 0 would be "mp4v.20.8".

XXX.2 Syntax

The syntax defined in Annex K of 14496-12 is extended as follows.

id-iso := iso-gen / iso-mpega / iso-mpegv   
 iso-mpega := mp4a "." oti [ "." aud-oti ]  
 iso-mpegv := mp4v "." oti [ "." vid-pli ]  
 mp4a := %x6d.70.34.61 ; 'mp4a'  
 oti := 2(DIGIT / "A" / "B" / "C" / "D" / "E" / "F")  
 ; leading "0x" omitted  
 aud-oti := 1\*DIGIT  
 mp4v := %x6d.70.34.76 ; 'mp4v'  
 vid-pli := 1\*DIGIT

# Reader and writer behaviour part 12 vs part 14

## Goals

The behavior of Part 14 (or any derived specification) should be the same as the behavior of Part 12, just with potentially different default values.

## Proposed text changes

**7 Template fields used**

In ISO/IEC 14496-12 the concept of “template” fields is defined. This specification derives from the base, and it is required that any derived specification state explicitly which template fields are used. This format uses no template fields.

~~When a file is created as a pure MPEG-4 file, those fields shall be set to their default values. If a file is multi-purpose and also complies with other specifications, then those fields may have non-default values as required by those other specifications.~~

~~When a file is read as an MPEG-4 file, the values in the template fields shall be ignored.~~