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**Information technology — Coding of  
audio-visual objects —**

**Part 4:  
Conformance testing**

**AMENDMENT 35: Simple studio profile  
levels 5 and 6 conformance testing**

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*Technologies de l'information — Codage des objets audiovisuels —*

*Partie 4: Essai de conformité*

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*AMENDEMENT 35: Essai de conformité pour niveaux 5 et 6 de profil  
de studio simple*

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## Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

Amendment 35 to ISO/IEC 14496-4:2004 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

This Amendment specifies conformance tests for Levels 5 and 6 of the ISO/IEC 14496-2 Simple Studio Profile. The bitstreams to be used for conformance testing of these levels accompany this document.

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# Information technology — Coding of audio-visual objects —

## Part 4: Conformance testing

### AMENDMENT 35: Simple studio profile levels 5 and 6 conformance testing

After 5.7.1.3.1, add the following new subclauses:

#### 5.7.1.4 Test Bitstreams – Simple Studio Profile Level 2

Test bitstreams for Simple and Core Studio Profile Level 2.

##### 5.7.1.4.1 Test bitstream #SSPL2-1 and #SSPL2-2

**Specification:** A bitstream with `frame_pred_frame_dct` equal to 1. The number of MB/s, packet size and bit rate are the maximum allowed for the profile-and-level combination. The VBV fullness approaches the maximum, then approaches the minimum after removal of a large frame that is near the `vbv_buffer_size`.

**Functional stage:** VBV

**Purpose:** Check that the decoder has sufficient buffering and I/O bandwidth for Simple Studio Profile Level 2.

#### 5.7.1.5 Test Bitstreams – Simple Studio Profile Level 3

Test bitstreams for Simple and Core Studio Profile Level 3.

##### 5.7.1.5.1 Test bitstream #SSPL3-1 and #SSPL3-2

**Specification:** A bitstream with `frame_pred_frame_dct` equal to 1. The number of MB/s, packet size and bit rate are the maximum allowed for the profile-and-level combination. The VBV fullness approaches the maximum, then approaches the minimum after removal of a large frame that is near the `vbv_buffer_size`.

**Functional stage:** VBV

**Purpose:** Check that the decoder has sufficient buffering and I/O bandwidth for Simple Studio Profile Level 3.

#### 5.7.1.6 Test Bitstreams – Simple Studio Profile Level 4

Test bitstreams for Simple and Core Studio Profile Level 4.

##### 5.7.1.6.1 Test bitstream #SSPL4-1 and #SSPL4-2

**Specification:** A bitstream with `frame_pred_frame_dct` equal to 1. The number of MB/s, packet size and bit rate are the maximum allowed for the profile-and-level combination. The VBV fullness approaches the maximum, then approaches the minimum after removal of a large frame that is near the `vbv_buffer_size`.

**Functional stage:** VBV

**Purpose:** Check that the decoder has sufficient buffering and I/O bandwidth for Simple Studio Profile Level 4.

**5.7.1.7 Test Bitstreams – Simple Studio Profile Level 5**

Test bitstreams for Simple Studio Profile Level 5.

**5.7.1.7.1 Test bitstream #SSPL5-1 and #SSPL5-2**

**Specification:** A bitstream with frame\_pred\_frame\_dct equal to 1. The number of MB/s, packet size and bit rate are the maximum allowed for the profile-and-level combination. The VBV fullness approaches the maximum, then approaches the minimum after removal of a large frame that is near the vbv\_buffer\_size.

**Functional stage:** VBV

**Purpose:** Check that the decoder has sufficient buffering and I/O bandwidth for Simple Studio Profile Level 5.

**5.7.1.8 Test Bitstreams – Simple Studio Profile Level 6**

Test bitstreams for Simple Studio Profile Level 6.

**5.7.1.8.1 Test bitstream #SSPL6-1 and #SSPL6-2**

**Specification:** A bitstream with frame\_pred\_frame\_dct equal to 1. The number of MB/s, packet size and bit rate are the maximum allowed for the profile-and-level combination. The VBV fullness approaches the maximum, then approaches the minimum after removal of a large frame that is near the vbv\_buffer\_size.

**Functional stage:** VBV

**Purpose:** Check that the decoder has sufficient buffering and I/O bandwidth for Simple Studio Profile Level 6.

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In 5.7.2, replace the table as follows: <https://standards.iteh.ai/catalog/standards/sist/1358f4b0-b7d4-45c3-b01b-b0ee597d2b82/iso-iec-14496-4-2004-amd-35-2009>

Categories	Bitstream	Donated by	Bitstream Name	Simple Studio						Core Studio			
				L1	L2	L3	L4	L5	L6	L1	L2	L3	L4
General	A3GE-1	Sony	vcon-stp1L1.bits	S						S			
	A3GE-2	Sony	vcon-stp2L1.bits	S						S			
	A3GE-3	Sony	vcon-stp3L1.bits	S						S			
	A3GE-4	Sony	vcon-stp4L1.bits	S						S			
	A3GE-5	Sony	vcon-stp5L1.bits	S						S			
	A3GE-6	Sony	vcon-stp6L1.bits	S						S			
	A3GE-7	Sony	vcon-stp7L1.bits	S						S			
	A3GE-8	Sony	vcon-stp8L1.bits	S						S			
	A3GE-9	Sony	vcon-stp9L1.bits	S						S			
	A3GE-10	Sony	vcon-stp10L1.bits	S						S			
	A3GE-11	Sony	vcon-stp11L1.bits	S						S			
	SSPL2-1	Sony	vcon-stp12L2.bits		S						S		
	SSPL2-2	Sony	vcon-stp13L2.bits		S						S		
	SSPL3-1	Sony	vcon-stp14L3.bits			S						S	

Categories	Bitstream	Donated by	Bitstream Name	Simple Studio						Core Studio				
				L1	L2	L3	L4	L5	L6	L1	L2	L3	L4	
	SSPL3-2	Sony	vcon-stp15L3.bits			S							S	
	SSPL4-1	Sony	vcon-stp16L4.bits				S							S
	SSPL4-2	Sony	vcon-stp17L4.bits				S							S
Shape	A3SH-1	NHK	vcon-stpsh1L1.bits	S							S			
	A3SH-2	NHK	vcon-stpsh2L1.bits								S			
Sprite	A3SP-1	NHK	vcon-stpsp1L1.bits								S			
Simple Studio Profile L5	SSPL5-1	Sony	vcon-ssp1L5.bits					S						
	SSPL5-2	Sony	vcon-ssp2L5.bits					S						
Simple Studio Profile L6	SSPL6-1	Sony	vcon-ssp1L6.bits						S					
	SSPL6-2	Sony	vcon-ssp2L6.bits						S					

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