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AMENDMENT 10
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Information technology — Coding of audio-visual objects —

Part 4: Conformance testing

AMENDMENT 10: Conformance extensions for simple profile levels 4a and 5

Technologies de l'information — Codage des objets audiovisuels —

Partie 4: Essai de conformité

AMENDEMENT 10: Extensions de conformité pour niveaux 4a et 5 de profil simple

Reference number
ISO/IEC 14496-4:2004/Amd.10:2005(E)

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Amendment 10 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 4a and 5 of the ISO/IEC 14496-2 Simple 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 10: Conformance extensions for simple profile levels 4a and 5

Add 5.5.3.1.37 after subclause 5.5.3.1.36 and change the following subclauses accordingly:

5.5.3.1.37 Conformance for Simple Profile Levels 4a and 5

5.5.3.1.37.1 Test Bitstream #A6-GE19

Specification: A series of VGA (640x480) resolution P-VOPs with some periodic I-VOPs, coded at frame rate 30 FPS with data partitioning and bit rate 4000Kbps. The number of MB/s, packet size and bit rate are the maximum allowed for the profile-and-level combination. To achieve the maximum bitrate, several MBs are INTRA coded for each frame. The vbv_occupancy in the VOL header must be used to begin decode at the proper time. The VBV 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 Profile Level 4a.

5.5.3.1.37.2 Test Bitstream #A6-GE20

Specification: A series of Euro-SDTV (720x576) resolution P-VOPs with some periodic I-VOPs, coded at frame rate 30 FPS with data partitioning and bit rate 8000Kbps. The number of MB/s, packet size and bit rate are the maximum allowed for the profile-and-level combination. To achieve the maximum bitrate, several MBs are INTRA coded for each frame. The vbv_occupancy in the VOL header must be used to begin decode at the proper time. The VBV 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 Profile Level 5.

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In subclause 5.5.7, add the following table after Table 10:

Table AMD10-1 – Normative Test Suites for Simple Profile Levels 4a and 5

NOTE: Each row represents a single bitstream.

Legend:

S – Bitstream is intended for functional test

D – Bitstream is intended for dynamic test

X – Bitstream is for functional and dynamic test

Categories	Bitstream	Donated by	Bitstreams Name	Simple						Error Resilient Simple Scalable		
				L0b	L1	L2	L3	L4a	L5	L0	L1	L2
	A6-GE19	Texas Instruments	ti_vga.cmp					X				
	A6-GE20	Texas Instruments	ti_sdtv.cmp						X			

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