INTERNATIONAL STANDARD

ISO/IEC 15938-7

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Information technology — Multimedia content description interface —

Part 7: Conformance testing

AMENDMENT 6 Conformance testing for video signature tools

Technologies de l'information — Description de l'interface du contenu multimédia

Partie 7: Essais de conformité

AMENDEMENT 6: Essai de conformité pour outils de signature video

AMENDEMENT 6: Essai de conformité pour outils de signature video

AMENDEMENT 6: Essai de conformité pour outils de signature video

AMENDEMENT 6: Essai de conformité pour outils de signature video

AMENDEMENT 6: Essai de conformité pour outils de signature video







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Foreword

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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.

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Amendment 6 to ISO/IEC 15938-7:2003 was prepared by Nornt Technical Committee ISO/IEC JTC 1, Information technology, Subcommittee SC 29, Coding of audio, picture, multimedia and hypermedia information.

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Information technology — Multimedia content description interface —

Part 7:

Conformance testing

AMENDMENT 6: Conformance testing for video signature tools

In 7.3.4, Naming Scheme for Visual Conformance Descriptions, add the following items to Table 3 and corresponding bitstreams:

Table 3 — Naming Scheme for Video Conformance Descriptions

Descriptor/Descriptionscheme	Basename
Video signature	VideoSignature

Replace 7.3.5 with:

7.3.5 Visual extraction methods

The extraction methods for most descriptors are not explicitly specified for tools defined in ISO/IEC 15938-3, therefore conformance testing of extraction methods is not required. The exceptions to this are the Image and Video Signature descriptors for which the extraction methods are explicitly defined in ISO/IEC 15938-3:2002/Amd.3:2009 and ISO/IEC 15938-3:2002/Amd.4:2010.

After 7.3.5.1.2, insert the following new subclause:

7.3.5.2 Video Signature Conformance

This subclause specifies the conformance test for the video signature descriptor. An implementation of the video signature extraction method shall be referred to as a video signature extractor. To be conformant a video signature extractor shall pass the conformance test.

To verify conformance of a video signature extractor, test video signature descriptors shall be extracted from a set of videos and compared to a set of reference video signature descriptors. The specified video set consists of 31 videos. These videos and their reference video signature descriptors are included in VideoSignatureConformanceTestset_1of2.zip and VideoSignatureConformanceTestset_2of2.zip. The filenames of the videos and their reference video signature descriptors, and the number of frames for each video are shown in Table Amd6.1. The FrameSignature element and the FrameConfidence element for each frame of the test video signature shall be compared with the FrameSignature and the FrameConfidence for the corresponding frame of the reference video signature. The total number of frame comparison shall be 162853.

In order for the video signature extractor being tested to pass the conformance test, the FrameSignature and the FrameConfidence for 99.99% or more of all frames from the specified video set, i.e. 162837 frames or more out of 162853 frames, shall satisfy the following two conditions.

- FrameSignature Element: The number of dimensions whose ternary values differ between the test and the reference video signatures shall be less than or equal to 15 out of 380, if the FrameConfidence values of both the test and the reference video signatures are greater than or equal to 4. The ternary values of the frame signature shall be decoded from the binary representation according to Table E.1.
- FrameConfidence Element: The absolute value of the difference between the FrameConfidence values of the test and the reference video signatures shall be less than or equal to 7. The absolute value V shall be calculated as,

$$V = Abs(conf_T - conf_R)$$

where $conf_T$ and $conf_R$ denote the FrameConfidence values of the test and reference video signatures respectively. 1.3003/AM

Table AMD6.1 — Video Signature conformance test set

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2 Inca_Trail_15-19_12.mpg Inca_Trail_15-19_12.bin 4500 3 Inca_Trail_26-29_30.mpg Inca_Trail_26-29_30.bin 4500 4 Inca_Trail_5_3.mpg Inca_Trail_7_0.bin 4500 5 Inca_Trail_7_0.mpg Inca_Trail_7_0.bin 4500 6 Inca_Trail_9-14_53.mpg Inca_Trail_9-14_53.bin 4500 7 NEC_IndoorA1_02.mpg NEC_IndoorA1_02.bin 5425 8 NEC_IndoorA1_06.mpg NEC_IndoorA1_06.bin 5425 9 NEC_IndoorB1_00.mpg NEC_IndoorB1_00.bin 5425 10 NEC_IndoorB1_00.mpg NEC_IndoorB1_00.bin 5425 11 NEC_Misc1_00.mpg NEC_Misc3_09.bin 5425 12 NEC_Misc3_09.mpg NEC_Misc3_09.bin 5425 13 NEC_Misc4_00.mpg NEC_Misc3_09.bin 5425 14 sejong_MFL1.mpg sejong_MFL1.bin 5440 15 sejong_MFL5.mpg sejong_MFL2.bin 5447 16 sejong_MFL19.mpg sejong_MFL3.bin 5448 17 sejong_MF	No	Video	-	Number of frames
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21 sejong_MFL131.mpg sejong_MFL131.bin 5448 22 sejong_MFL138.mpg sejong_MFL138.bin 5447 23 sejong_MFL155.mpg sejong_MFL155.bin 5448 24 sejong_MFL191.mpg sejong_MFL191.bin 5447 25 SongDo_09.mpg SongDo_09.bin 5425 26 InhaUniversity_PR001.mpg InhaUniversity_PR001.bin 5425 27 InhaUniversity_PR031.mpg InhaUniversity_PR031.bin 5425 28 InhaUniversity_PR060.mpg InhaUniversity_PR060.bin 5425 29 InhaUniversity_PR065.mpg InhaUniversity_PR065.bin 5425 30 InhaUniversity_PR075.mpg InhaUniversity_PR075.bin 5425	19	sejong_MFL55.mpg	sejong_MFL55.bin	5448
22 sejong_MFL138.mpg sejong_MFL138.bin 5447 23 sejong_MFL155.mpg sejong_MFL155.bin 5448 24 sejong_MFL191.mpg sejong_MFL191.bin 5447 25 SongDo_09.mpg SongDo_09.bin 5425 26 InhaUniversity_PR001.mpg InhaUniversity_PR001.bin 5425 27 InhaUniversity_PR031.mpg InhaUniversity_PR031.bin 5425 28 InhaUniversity_PR060.mpg InhaUniversity_PR060.bin 5425 29 InhaUniversity_PR065.mpg InhaUniversity_PR065.bin 5425 30 InhaUniversity_PR075.mpg InhaUniversity_PR075.bin 5425	20	sejong_MFL (25.mpg	sejong_MFL125.bin	5448
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	31	InhaUniversity_PR084.mpg	InhaUniversity_PR084.bin	5425