



**INTERNATIONAL STANDARD ISO/IEC 23000-9:2008/Amd.1:2010**  
**TECHNICAL CORRIGENDUM 2**

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION  
INTERNATIONAL ELECTROTECHNICAL COMMISSION • МЕЖДУНАРОДНАЯ ЭЛЕКТРОТЕХНИЧЕСКАЯ КОМИССИЯ • COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

## **Information technology — Multimedia application format (MPEG-A)**

### **Part 9: Digital Multimedia Broadcasting application format**

AMENDMENT 1: Conformance and reference software

TECHNICAL CORRIGENDUM 2

*Technologies de l'information — Format pour application multimédia (MPEG-A)*

*Partie 9: Format pour application de diffusion générale multimédia numérique*

*AMENDEMENT 1: Logiciel de référence et conformité*

*RECTIFICATIF TECHNIQUE 2*

Technical Corrigendum 2 to ISO/IEC 23000-9:2008/Amd.1:2010 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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*Replace the conformance files and the reference software attached to ISO/IEC 23000-9:2008/Amd.1:2010 or ISO/IEC 23000-9:2008/Amd.1:2010/Cor.1:2011 with the corresponding ones attached to this document.*

*In 8.5, replace the description tables for the conformance files 02, 04, 06, 09, 10 and 13 with the following:*

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In 8.5 of ISO/IEC 23000-9:2008/Amd.1:2010

<b>File name</b>		<b>02_T-DMB-1_AV_r1.dmb</b>
Description		the same as file '01'
Major brand		dv1b
Compatible brands		dmb1, dv1a, avc1, mp42
Components Inside the file	AVC, ER-BSAC	- each stream is stored as separate track - AVC as AVCSampleEntry('avc1') - ER-BSAC as MP4AudioSampleEntry('mp4a')
	A DID XML (containing TVA and REL)	- a TVA for content description and segment information - a REL for defining a simple license
	14 JPEG images related to TVA	- each image is stored as an item - a program title image - a segment group title image - 12 segment title images

In ISO/IEC 23000-9:2008/Amd.1:2010/Cor.1:2011

<b>File name</b>		<b>04_T-DMB-1_BIFS(ES)_r2.dmb</b>
Description		a golf program with BIFS in a separate track
Major brand		dv1a
Compatible brands		dmb1, dv1b, avc1, mp42
Components Inside the file	AVC, ER-BSAC, OD, BIFS and JPEG images	- each stream is stored as a separate track - AVC as MP4VisualSampleEntry('mp4v') - ER-BSAC as MP4AudioSampleEntry('mp4a') - IOD as ObjectDescriptorBox('iods') - OD as MpegSampleEntry('mp4s') - BIFS as MpegSampleEntry('mp4s') - JPEG as MP4VisualSampleEntry('mp4v')

In 8.5 of ISO/IEC 23000-9:2008/Amd.1:2010

<b>File name</b>		<b>06_T-DMB-1_IPMP(ES)_r1.dmb</b>
Description		the same as file '02'
Major brand		dv1b
Compatible brands		dmb1
Components Inside the file	AVC, ER-BSAC	- each streams is stored as separate track - each ES is encrypted with AES-128 CTR (key: "key1")
	A DID XML (containing TVA, REL and IPMP)	- a TVA for content description and segment information (the same TVA as is in the conformance file 02) - an REL for defining a simple license (the same TVA as in the conformance file 02) - an IPMP for describing the protection tool
	14 JPEG images related to TVA	- each image is stored as an item - a program title image - a segment group title image - 12 segment title images (one of the images is protected with the same tool and key as for the ESS)

In ISO/IEC 23000-9:2008/Amd.1:2010/Cor.1:2011

<b>File name</b>		<b>09_T-DMB-2_TS_r2.dmb</b>
Description		a T-DMB Profile 2 program (Visual Radio)
Major brand		dv2a
Compatible brands		dmb1, dv2b
Components Inside the file	An MPEG-2 TS (containing HE-AAC2, AVC, OD, BIFS and JPEG images)	- stored as an 'rm2t' hint track

In 8.5 of ISO/IEC 23000-9:2008/Amd.1:2010

<b>File name</b>		<b>10_T-DMB-2_AV_r1.dmb</b>
Description		a T-DMB Profile 2 program (Visual Radio)
Major brand		dv2a
Compatible brands		dmb1, dv2b, avc1, mp42
Components Inside the file	AVC, HE-AAC2, OD, BIFS and JPEG images	- each stream is stored as separate track