



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

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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 1

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 1

Technical Corrigendum 1 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*.

Replace the conformance files and the reference software attached to ISO/IEC 23000-9:2008/Amd.1:2010 with the corresponding ones attached to this one.

In 8.5, replace the description tables for the conformance files 01, 03 04, 05, 09, and 12 with the following:

| | | |
|----------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| File name | | 01_T-DMB-1_TS_r1.dmb |
| Description | | a music show program (T-DMB Profile 1) with descriptive metadata and caption text |
| Major brand | | dv1b |
| Compatible brands | | dmb1, dv1a |
| Components Inside the file | An MPEG-2 TS (containing ER-BSAC and AVC) | - stored as an 'rm2t' hint track |
| | A DID XML (containing TVA and REL) | - each image is stored as an item - a TVA for content description and segment information - a REL for defining a simple license |
| | 14 JPEG images related to TVA | - a program title image - a segment group title image - 12 segment title images |
| | A 3GPP-TT stream | - caption text for the program |

| | | |
|----------------------------|------------------------------------------------------------------|--------------------------------------------------------------|
| File name | | 03_T-DMB-1_BIFS(TS)_r1.dmb |
| Description | | a golf program with BIFS multiplexed in TS (T-DMB Profile 1) |
| Major brand | | dv1a |
| Compatible brands | | dmb1, dv1b |
| Components Inside the file | An MPEG-2 TS (containing ER-BSAC, AVC, OD, BIFS and JPEG images) | - stored as an 'rm2t' hint track |

| | | |
|----------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| File name | | 04_T-DMB-1_BIFS(ES)_r1.dmb |
| 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') |

| | | |
|----------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| File name | | 05_T-DMB-1_IPMP(TS)_r1.dmb |
| Description | | the same as file '01' |
| Major brand | | dv1b |
| Compatible brands | | dmb1 |
| Components Inside the file | An MPEG-2 TS (containing ER-BSAC and AVC) | - stored as an 'rm2t' hint track (the same TS as is in the conformance file 01). - the TS 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 01) - an REL for defining a simple license (the same TVA as in the conformance file 01) - a 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 TS) |