



**INTERNATIONAL STANDARD ISO/IEC 14496-3:2009/Amd.4:2013**  
**TECHNICAL CORRIGENDUM 1**

Published 2015-04-01

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

### **Part 3: Audio**

AMENDMENT 4: New levels for AAC profiles

TECHNICAL CORRIGENDUM 1

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

*Partie 3: Codage audio*

*AMENDEMENT 4: Nouveaux niveaux pour profils AAC*

*RECTIFICATIF TECHNIQUE 1*

Technical Corrigendum 1 to ISO/IEC 14496-3:2014 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia*.

### **1 Changes to the text of ISO/IEC 14496-3:2009/Amd 4:2013**

*In 4.5.2.14.1.1 replace*

"Downmix loudness compensation gain sign information. One bit indicating the sign of the global downmix gain factor for a 2-ch stereo downmix "

With

"Downmix loudness compensation gain sign information. One bit indicating the sign of the global downmix gain factor for a 2-ch stereo downmix. (0 if positive, 1 if negative)".

and replace:

dmix\_a\_idx indicates an index for the generation of a 5-channel downmix as shown in Tables XX and XX

dmix\_b\_idx indicates an index for the generation of a 5-channel downmix as shown in Tables XX and XX

by:

dmix\_a\_idx indicates an index for the generation of a 5-channel downmix as shown in Tables AMD4.8 and AMD4.9

dmix\_b\_idx indicates an index for the generation of a 5-channel downmix as shown in Tables AMD4.8 and AMD4.9

In 4.5.2.14.1.2 replace

"4.5.2.14.1.2"

With

"4.5.2.14.1.2 Integration in bitstream".

In 4.5.2.14.2.2 replace

"

Channel Configuration	dmix_a_idx	dmix_b_idx
7.1 Back, 6.1	d1	d2
7.1 Front	e1	e2
7.1 Top	f1	f2

"

with

"

Channel Configuration	Multiplication factor of dmix_a_idx	Multiplication factor of dmix_b_idx
7.1 Back, 6.1	d1	d2
7.1 Front	e1	e2
7.1 Top	f1	f2

"

In 4.5.2.14.2.2.1 replace

"Rs' = Rs × d1 + Rsr × d2"

With

"Rs' = Rs × d1 + Rsr × d2".

*In 4.5.2.14.2.2.3 replace*

"C, L, R, Ls, Rs, Lv, Rv, LFE are the source signals and C', L', R', Ls', Rs', LFE' are the derived 5.1 channel signals."

*With*

"C, L, R, Ls, Rs, Lv, Rv, LFE are the source signals and C', L', R', Ls', Rs', LFE' are the derived 5.1 channel signals."

*In 4.5.2.14.2.3 replace*

"**dmx\_gain\_5** indicates the correction for 7-channel to 5-channel downmix and **dmx\_gain\_2** for the 5-channel to 2-channel downmix."

*With*

"**dmx\_gain\_5** indicates the correction factor for 7-channel to 5-channel downmix and **dmx\_gain\_2** for the 5-channel to 2-channel downmix."

*And replace*

"In case of downmixing from 7 to 2 channels the gains shall be applied in combination (**dmx\_gain\_5** + **dmx\_gain\_2**)."

*With*

"In case of downmixing from 7 to 2 channels the gains shall be applied in combination (**dmx\_gain\_5** × **dmx\_gain\_2**)."

*In 4.5.2.14.2.3.1 replace*

" $\text{dmx\_gain\_5} = 10 \times (\text{dmx\_gain\_5\_idx}/80)$ , if  $\text{dmx\_gain\_5\_sign} == 0$

$\text{dmx\_gain\_5} = 10 \times (-\text{dmx\_gain\_5\_idx}/80)$ , if  $\text{dmx\_gain\_5\_sign} == 1$ "

*with*

" $\text{dmx\_gain\_5} = 10^{(\text{dmx\_gain\_5\_idx}/80)}$ , if  $\text{dmx\_gain\_5\_sign} == 0$

$\text{dmx\_gain\_5} = 10^{(-\text{dmx\_gain\_5\_idx}/80)}$ , if  $\text{dmx\_gain\_5\_sign} == 1$ "

*In 4.5.2.14.2.3.2 replace*

" $\text{dmx\_gain\_2} = 10 \times (\text{dmx\_gain\_2\_idx}/80)$ , if  $\text{dmx\_gain\_2\_sign} == 0$

$\text{dmx\_gain\_2} = 10 \times (-\text{dmx\_gain\_2\_idx}/80)$ , if  $\text{dmx\_gain\_2\_sign} == 1$ "

*with*

" $\text{dmx\_gain\_2} = 10^{(\text{dmx\_gain\_2\_idx}/80)}$ , if  $\text{dmx\_gain\_2\_sign} == 0$

$\text{dmx\_gain\_2} = 10^{(-\text{dmx\_gain\_2\_idx}/80)}$ , if  $\text{dmx\_gain\_2\_sign} == 1$ "

*In 4.5.2.14.2.2.3 replace*

"