INTERNATIONAL STANDARD ISO/IEC 23003-1:2007/Amd.1:2008
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 — MPEG audio technologies

Part 1:
MPEG Surround

AMENDMENT 1: Conformance testing

TECHNICAL CORRIGENDUM 1

Technologies de l'information — Technologies audio MPEG

Partie 1: Ambiance MPEG

AMENDEMENT 1: Essai de conformité

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO/IEC 23003-1:2007/Amd.1:2008 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

Replace all "heaac_mps_*" conformance sequences attached to ISO/IEC 23003-1:2007/Amd.1:2008 with the corresponding sequences attached to this document.

In 8.4.2.3.9: EcData(), add the following statement to bsXXXdataMode:

Shall have the value 0 or 3 if ps == 0 and **bsIndependencyFlag** is set to 1**.**

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Replace Tables AMD1.5, AMD1.6, AMD1.7, AMD1.8 and AMD1.13 with the corrected versions below, where the changes are highlighted by gray background:

Table AMD1.5 — List of MPEG Surround conformance test sequences with MPEG-4 AAC profile downmix

Sequence		aac_mps_oneicc	aac_mps_param_4	aac_mps_param_5	aac_mps_param_7	aac_mps_param_10	aac_mps_param_14	aac_mps_param_20	aac_mps_param_28	aac_mps_qmf	aac_mps_quant_0
downmix coder	AOT	2	2	2	2	2	2	2	2	2	2
	extAOT	--	--	--	--	--	--	--	--	--	--
	backwards compatible	--	--	--	--	--	--	--	--	--	--
	SBR present	--	--	--	--	--	--	--	--	--	--
	SSC Embedding	--	--	--	--	--	--	--	--	--	--
	number of channels	2	2	2	2	2	2	2	2	1	2
	sampling frequency	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000
	frame length	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024
time slots / frame		16	16	16	16	16	16	16	16	16	16
parameter bands		28	4	5	7	10	14	20	28	28	28
tree configuration		2	2	2	2	2	2	2	2	0	2
quantization mode		0	0	0	0	0	0	0	0	0	0
one ICC		1	0	0	0	0	0	0	0	0	0
arbitrary downmix		0	0	0	0	0	0	0	0	0	0
arbitrary tree		0	0	0	0	0	0	0	0	0	0
surround gain		2	2	2	2	2	2	2	2	2	2
LFE gain		1	1	1	1	1	1	1	1	1	1
downmix gain		4	4	4	4	4	4	4	4	4	4
matrix comp. mode		0	0	0	0	0	0	0	0	0	0
temp shape config		0	0	0	0	0	0	0	0	0	0
decorr config		0	0	0	0	0	0	0	0	0	0
energy based qu.		0	0	0	0	0	0	0	0	0	0
3D stereo		0	0	0	0	0	0	0	0	0	0

number of LFE bands	2	1	1	1	1	2	2	2	2	2
residual coding	0	0	0	0	0	0	0	0	0	0
arbitrary downmix residual	0	0	0	0	0	0	0	0	0	0
residual sampling rate	-	-	-	-	-	-	-	-	-	-
number of residual frames	-	-	-	-	-	-	-	-	-	-
number of residual bands	-	-	-	-	-	-	-	-	-	-
tttModeLow	1	1	1	1	1	1	1	1	-	1
tttLow start band	0	0	0	0	0	0	0	0	-	0
tttLow stop band	28	4	5	7	10	14	20	28	-	28
tttModeHigh	0	0	0	0	0	0	0	0	-	0
tttHigh start band	-	-	-	-	-	-	-	-	-	-
tttHigh stop band	-	-	-	-	-	-	-	-	-	-

Table AMD1.6 — List of MPEG Surround conformance test sequences with MPEG-4 AAC profile downmix (ctd.)

Sequence		aac_mps_quant_1	aac_mps_quant_2	aac_mps_quant_3	aac_mps_res	aac_mps_shape_ges	aac_mps_shape_stp	aac_mps_smooth	aac_mps_tree_5151	aac_mps_tree_5152	aac_mps_tree_525
downmix coder	AOT	2	2	2	2	2	2	2	2	2	2
	extAOT	-	-	-	-	-	-	-	-	-	-
	backwards compatible	-	-	-	-	-	-	-	-	-	-
	SBR present	-	-	-	-	-	-	-	-	-	-
	SSC Embedding	-	-	-	-	-	-	-	-	-	-
	number of channels	2	1	1	2	2	2	2	1	1	2
	sampling frequency	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000
	frame length	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024
time slots / frame		16	16	16	16	16	16	16	16	16	16
parameter bands		28	28	28	28	28	28	28	28	28	28

tree configuration	2	0	0	2	2	2	2	0	1	2
quantization mode	0	1	2	0	0	0	0	0	0	0
one ICC	0	0	0	0	0	0	0	0	0	0
arbitrary downmix	0	0	0	0	0	0	0	0	0	0
arbitrary tree	0	0	0	0	0	0	0	0	0	0
surround gain	2	2	2	2	2	2	2	2	2	2
LFE gain	1	1	1	1	1	1	1	1	1	1
downmix gain	4	4	4	4	4	4	4	4	4	4
matrix comp. mode	0	0	0	0	0	1	0	0	0	0
temp shape config	0	0	0	0	2	1	0	0	0	0
decorr config	0	0	0	0	0	0	0	0	2	0
energy based qu.	0	0	0	0	0	0	0	0	0	0
3D stereo	0	0	0	0	0	0	0	0	0	0
number of LFE bands	2	2	2	2	2	2	2	2	2	2
residual coding	0	0	0	1	0	0	0	0	0	0
arbitrary downmix residual	0	0	0	0	0	0	0	0	0	0
residual sampling rate	-	-	-	48000	-	-	-	-	-	-
number of residual frames	-	-	-	1	-	-	-	-	-	-
number of residual bands	-	-	-	7,7,7	-	-	-	-	-	-
tttModeLow	1	-	-	1	1	1	1	-	-	1
tttLow start band	0	-	-	0	0	0	0	-	-	0
tttLow stop band	28	-	-	28	28	28	28	-	-	28
tttModeHigh	0	-	-	0	0	0	0	-	-	0
tttHigh start band	-	-	-	-	-	-	-	-	-	-
tttHigh stop band	-	-	-	-	-	-	-	-	-	-

Table AMD1.7 — List of MPEG Surround conformance test sequences with MPEG-4 High Efficiency AAC profile downmix

Sequence		heaac_mps_oneicc	heaac_mps_param_4	heaac_mps_param_5	heaac_mps_param_7	heaac_mps_param_10	heaac_mps_param_14	heaac_mps_param_20	heaac_mps_param_28	heaac_mps_qmf	heaac_mps_quant_0
downmix coder	AOT	2	2	2	2	2	2	2	2	2	2
	extAOT	5	5	5	5	5	5	5	5	5	5
	backwards compatible	--	--	--	--	--	--	--	--	--	--
	SBR present	1	1	1	1	1	1	1	1	1	1
	SSC Embedding	--	--	--	--	--	--	--	--	--	--
	number of channels	2	2	2	2	2	2	2	2	1	2
	sampling frequency	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000
	frame length	2048	2048	2048	2048	2048	2048	2048	2048	2048	2048
time slots / frame		32	32	32	32	32	32	32	32	32	32
parameter bands		20	4	5	7	10	14	20	28	20	20
tree configuration		2	2	2	2	2	2	2	2	0	2
quantization mode		0	0	0	0	0	0	0	0	0	0
one ICC		1	0	0	0	0	0	0	0	0	0
arbitrary downmix		0	0	0	0	0	0	0	0	0	0
arbitrary tree		0	0	0	0	0	0	0	0	0	0
surround gain		2	2	2	2	2	2	2	2	2	2
LFE gain		1	1	1	1	1	1	1	1	1	1
downmix gain		4	4	4	4	4	4	4	4	4	4
matrix comp. mode		0	0	0	0	0	0	0	0	0	0
temp shape config		0	0	0	0	0	0	0	0	0	0
decorr config		0	0	0	0	0	0	0	0	0	0
energy based qu.		0	0	0	0	0	0	0	0	0	0
3D stereo		0	0	0	0	0	0	0	0	0	0
number of LFE bands		2	1	1	1	1	2	2	2	2	2
residual coding		0	0	0	0	0	0	0	0	0	0

arbitrary downmix residual	0	0	0	0	0	0	0	0	0	0	0
residual sampling rate	--	--	--	--	--	--	--	--	--	--	--
number of residual frames	--	--	--	--	--	--	--	--	--	--	--
number of residual bands	--	--	--	--	--	--	--	--	--	--	--
tttModeLow	1	1	1	1	1	1	1	1	--	1	
tttLow start band	0	0	0	0	0	0	0	0	--	0	
tttLow stop band	19	4	5	7	10	13	19	22	--	19	
tttModeHigh	5	0	0	0	0	5	5	5	--	5	
tttHigh start band	19	--	--	--	--	13	19	22	--	19	
tttHigh stop band	20	--	--	--	--	14	20	28	--	20	

Table AMD1.8 — List of MPEG Surround conformance test sequences with MPEG-4 High Efficiency AAC profile downmix (ctd.)

Sequence		heaac_mps_quant_1	heaac_mps_quant_2	heaac_mps_quant_3	heaac_mps_res	heaac_mps_shape_ges	heaac_mps_shape_stp	heaac_mps_smooth	heaac_mps_tree_5151	heaac_mps_tree_5152	heaac_mps_tree_525
downmix coder	AOT	2	2	2	2	2	2	2	2	2	2
	extAOT	5	5	5	5	5	5	5	5	5	5
	Backwards compatible	--	--	--	--	--	--	--	--	--	--
	SBR present	1	1	1	1	1	1	1	1	1	1
	SSC Embedding	--	--	--	--	--	--	--	--	--	--
	number of channels	2	1	1	2	2	2	2	1	1	2
	sampling frequency	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000
	frame length	2048	2048	2048	2048	2048	2048	2048	2048	2048	2048
time slots / frame		32	32	32	32	32	32	32	32	32	32

parameter bands	20	20	20	28	20	20	20	20	20	20
tree configuration	2	0	0	2	2	2	2	0	1	2
quantization mode	0	1	2	0	0	0	0	0	0	0
one ICC	0	0	0	0	0	0	0	0	0	0
arbitrary downmix	0	0	0	0	0	0	0	0	0	0
arbitrary tree	0	0	0	0	0	0	0	0	0	0
surround gain	2	2	2	2	2	2	2	2	2	2
LFE gain	1	1	1	1	1	1	1	1	1	1
downmix gain	4	4	4	4	4	4	4	4	4	4
matrix comp. mode	0	0	0	0	0	1	0	0	0	0
temp shape config	0	0	0	0	2	1	0	0	0	0
decorr config	0	0	0	0	0	0	0	0	2	0
energy based qu.	0	0	0	0	0	0	0	0	0	0
3D stereo	0	0	0	0	0	0	0	0	0	0
number of LFE bands	2	2	2	2	2	2	2	2	2	2
residual coding	0	0	0	1	0	0	0	0	0	0
arbitrary downmix residual	0	0	0	0	0	0	0	0	0	0
residual sampling rate	--	--	--	24000	--	--	--	--	--	--
number of residual frames	--	--	--	1	--	--	--	--	--	--
number of residual bands	--	--	--	7,7,7,7	--	--	--	--	--	--
tttModeLow	1	--	--	1	1	1	1	--	--	1
tttLow start band	0	--	--	0	0	0	0	--	--	0
tttLow stop band	19	--	--	15	19	19	19	--	--	19
tttModeHigh	5	--	--	5	5	5	5	--	--	5
tttHigh start band	19	--	--	15	19	19	19	--	--	19
tttHigh stop band	20	--	--	28	20	20	20	--	--	20