



INTERNATIONAL STANDARD ISO/IEC 13818-4:1998/Amd.3:2000
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 — Generic coding of moving pictures
and associated audio information —**

Part 4:
Conformance testing

AMENDMENT 3: Additional audio conformance bitstreams

TECHNICAL CORRIGENDUM 1

*Technologies de l'information — Codage générique des images animées et des informations sonores
associées —*

Partie 4: Essais de conformité

AMENDEMENT 3: Courants continus de bits supplémentaires pour la conformité sonore

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO/IEC 13818-4:1998/Amd.3:2000 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

In 4) (Change Table 2-10 in subclause 2.6.9.2 with), add replacement for Table 2-9 (Sine Sweeps),

“

Table 2-9 – Sine Sweeps

	SIN1_fs	SIN2_fs	SIN3_fs
Profile	Main	LC	SSR
Bitrate	40/64	40/64	40/64
# single channel elements	1	1	1
# channel pair elements	0	0	0
# LFE channels	0	0	0
Prediction	Yes	No	No
window shape switching	Yes	No	No

“

In 4) (Change Table 2-10 in subclause 2.6.9.2 with), replace Table 2-10 (Main Profile Bitstreams) with

”

Table 2-10 – Main Profile Bitstreams

	M1_fs	M2_fs	M4_fs	M5_fs	M6_fs	M7_fs
Bitrate	40/64	80/128	64/128	192/384	128/256	200/320
# single channel elements	1	0	0	1	1	1
# channel pair elements	0	1	1	2	1	2
# LFE channels	0	0	0	1	0	1
# Dep coupling channels	0	0	0	0	0	0
# Indep Coupling Channels	0	0	0	1	0	0
Intensity		Yes	Yes	Yes	Yes	Yes
MS		Yes	Yes	Yes	Yes	Yes
Prediction	Yes	Yes	Yes	Yes	Yes	Yes
window shape switching	Yes	Yes				Yes
Tns		Yes	Yes	Yes	Yes	Yes
pulse data						
Arithmetic torture		32,44				Yes
Nonmeaningful window_sequence transitions						
Dynamic Range Control (DRC)			Yes	Yes	Yes	

”

In 5) (Change Table 2-11 in subclause 2.6.9.2 with), replace Table 2-11 (Low Complexity Profile Bitstreams) with

”

Table 2-11 – Low Complexity Profile Bitstreams

	L1_fs	L2_fs	L3_fs	L4_fs	L5_fs	L6_fs	L7_fs	L8_fs	L9_fs
Bitrate	40/64	40/64	40/64	40/64	80/128	120/192	240 ¹⁾ /384	1920/3072	40/64
# single channel elements	1	1	1	1	0	1	1	16	1
# channel pair elements	0	0	0	0	1	1	2	16	0
# LFE channels	0	0	0	0	0	0	1	0	0
# Dep coupling channels	0	0	0	0	0	0	1	0	0
Data stream elements	Yes	Yes	Yes	Yes	Yes	Yes			
Intensity					Yes	Yes	Yes	Yes	
MS					Yes	Yes	Yes	Yes	
Window shape switching				Yes					
Tns				Yes		Yes	Yes	Yes	
Pulse data				Yes					
Buffer test		Yes							Yes
Arithmetic torture						24-48	Yes	24-48	16
Nonmeaningful window_sequence transitions			Yes						
ADTS									Yes
CRC									Yes

	L10_fs	L11_fs	L12_48	L13_48	L14_fs	L15_fs	L16_fs	L17_fs
Bitrate	40/64	40/64	variable	variable	64/128 ³⁾	192/384	96/384	80/128
# single channel elements	1	1	1	1	0	1	1	2
# channel pair elements	0	0	0	0	1	2	1	0
# LFE channels	0	0	0	0	0	1	0	0
# Indep coupling channels	0	0	0	0	0	1	0	0
Data stream elements	Yes	Yes						
Intensity					Yes	Yes	Yes	
MS					Yes	Yes	Yes	
window shape switching			Yes	Yes				
Tns					Yes	Yes	Yes	
pulse data			Yes	Yes				
Buffer test								
Arithmetic torture		08-32						
Nonmeaningful window_sequence transitions								
ADTS			Yes ²⁾	Yes ²⁾				
CRC			Yes					
DRC					Yes	Yes	Yes	

¹⁾ for the test sequence with a sampling rate of 8 kHz, the bitrate is 235 kbit/s

²⁾ The number of raw data blocks per ADTS frame varies in time.

³⁾ for the test sequence with a sampling rate of 8 kHz, the bitrate is 67530 bit/s.

“

In 6) (Change Table 2-12 in subclause 2.6.9.2 with), replace Table 2-12 (SSR Profile Bitstreams) with

“

Table 2-12 – SSR Profile Bitstreams

	S1_fs	S2_fs	S3_fs	S4_fs	S5_fs	S6_fs	S7_fs	S8_fs
Bitrate	40/64	40/64	40/64	40/64	40/64	40/64	40/64	40/64
# single channel elements	1	1	1	1	1	1	1	1
# channel pair elements	0	0	0	0	0	0	0	0
# LFE channels	0	0	0	0	0	0	0	0
Data stream elements					Yes	Yes	Yes	Yes
Intensity								
MS								
Gain Compensation enabled	Yes	Yes	Yes					
window shape switching	Yes	Yes	Yes	Yes				
Tns	Yes	Yes	Yes	Yes				
pulse data		08-12, 22, 24	08,11	Yes				
Buffer test		08-12, 22, 24	08,11	Yes				
Arithmetic torture					32	32	44	
Bandwidth	4	3	2	1	4	3	2	1
Nonmeaningful window_sequence transitions								
ADTS								

	S9_fs	S10_fs	S11_fs	S12_fs	S13_fs	S14_fs	S15_fs	S16_fs
Bitrate	80/128	80/128	80/128	80/128	200/320	200/320	280/448	280/448
# single channel elements	0	0	0	0	1	1	1	1
# channel pair elements	1	1	1	1	2	2	3	3
# LFE channels	0	0	0	0	1	1	1	1
Data stream elements								
Intensity	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Gain Compensation enabled	Yes	Yes	Yes		Yes	Yes	Yes	Yes
window shape switching					Yes	Yes	Yes	Yes
Tns					Yes	Yes	Yes	Yes
pulse data					Yes	Yes	Yes	Yes
Buffer test								
Arithmetic torture	44,48				08-64	16-88	08-88	16-96
Bandwidth	4	3	2	1	4	3	4	3
Nonmeaningful window_sequence transitions								
ADTS								

	S17_fs	S18_fs	S19_fs	S20_fs	S21_fs
Bitrate	40/64	40/64	40/64	40/64	40/64
# single channel elements	1	1	1	1	1
# channel pair elements	0	0	0	0	0
# LFE channels	0	0	0	0	0
Data stream elements					
Intensity					
MS					
Gain Compensation enabled	Yes	Yes	Yes	Yes	
window shape switching		Yes	Yes	Yes	Yes
Tns		Yes	Yes	Yes	Yes
pulse data		08-48	Yes	08-22, 32-96	Yes
Buffer test		08-48	Yes	08-22, 32-96	Yes
Arithmetic torture					
Bandwidth	4	4	3	2	1
Nonmeaningful window_sequence transitions	Yes				
ADTS		Yes	Yes	Yes	Yes
CRC		08-24	08-24	08-12	Yes

”

After 8), add the following item

”

9) At the end of subclause 2.6.9.2 (Description of the ISO/IEC 13818-7 (AAC) audio test bitstreams), add
”

In case the ChannelConfiguration equals zero the program_config_element() is defined as follows:

file name	num_front_channel_elements	front_element_is_cpe	num_side_channel_elements	side_element_is_cpe	num_back_channel_elements	back_element_is_cpe	num_lfe_channel_elements	num_valid_cc_elements	cc_element_is_ind_sw
SIN1	1	n	0	-	0	-	0	0	-
SIN2	1	n	0	-	0	-	0	0	-
SIN3	1	n	0	-	0	-	0	0	-
M1	1	n	0	-	0	-	0	0	-
M2	1	y	0	-	0	-	0	0	-
M4	1	y	0	-	0	-	0	0	-
M5	2	n y	0	-	1	y	1	1	y
M6	2	n y	0	-	0	-	0	0	-
M7	2	n y	0	-	1	y	1	0	-
L1	1	n	0	-	0	-	0	0	-
L2	1	n	0	-	0	-	0	0	-
L3	1	n	0	-	0	-	0	0	-
L4	1	n	0	-	0	-	0	0	-
L5	1	y	0	-	0	-	0	0	-
L6	2	n y	0	-	0	-	0	0	-
L7	2	n y	0	-	1	y	1	1	n
L8	11	n n n n n n y y y y	9	y y y y y y y y y	12	y y y n n n n n n n n	0	0	-
L10	1	-	0	-	0	-	0	0	-
L11	1	-	0	-	0	-	0	0	-
L14	1	y	0	-	0	-	0	0	-
L15	3	n y y	0	-	0	-	1	1	y
L16	2	n y	0	-	0	-	0	0	-

file name	num_front_channel_elements	front_element_is_cpe	num_side_channel_elements	side_element_is_cpe	num_back_channel_elements	back_element_is_cpe	num_lfe_channel_elements	num_valid_cc_elements	cc_element_is_ind_sw
L17	2	n	0	-	0	-	0	0	-
S1	1	n	0	-	0	-	0	0	-
S2	1	n	0	-	0	-	0	0	-
S3	1	n	0	-	0	-	0	0	-
S4	1	n	0	-	0	-	0	0	-
S5	1	n	0	-	0	-	0	0	-
S6	1	n	0	-	0	-	0	0	-
S7	1	n	0	-	0	-	0	0	-
S8	1	n	0	-	0	-	0	0	-
S9	1	y	0	-	0	-	0	0	-
S10	1	y	0	-	0	-	0	0	-
S11	1	y	0	-	0	-	0	0	-
S12	1	y	0	-	0	-	0	0	-
S13	2	n	0	-	1	y	1	0	-
S14	2	n	0	-	1	y	1	0	-
S15	3	y	0	-	1	y	1	0	-
S16	3	y	0	-	1	y	1	0	-
S17	1	n	0	-	0	-	0	0	-

".