



INTERNATIONAL STANDARD ISO/IEC 14496-3:2005
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 — Coding of audio-visual objects —

Part 3:

Audio

TECHNICAL CORRIGENDUM 2

Technologies de l'information — Codage des objets audiovisuels —

Partie 3: Codage audio

RECTIFICATIF TECHNIQUE 2

Technical Corrigendum 2 to ISO/IEC 14496-3:2005 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

Note that there is no Technical Corrigendum 1 to ISO/IEC 14496-3:2005 since its content was incorporated in ISO/IEC 14496-3:2005.

In subclause 8.5.1, replace Table 8.19 with:

Table 8.19 – Channel configuration in case channelConfiguration == 2

mode_ext	Full channel configuration	nrof_channels
00	Dual mono (ch0=left, ch1=right)	2
01	Parametric Stereo	1
10	Reserved	Na
11	Reserved	Na

In subclause 8.5.2, replace:

s_phi[sf][ch][n] – For sub-frame sf and channel ch, this represents the phase parameter of the n-th sinusoid. This value is converted into a phase value in radians in the range $[-\pi, \pi]$ conforming to

$$sp_q[n] = 2 \cdot sp_e \cdot s_phi[sf][ch][n],$$

where sp_e represents the absolute phase error ($sp_e = \frac{\pi}{32}$) and sp_q represents the dequantized absolute phase (in radians). The allowed range for s_phi is [-16, 15]; the representation level +16 is represented by -16 (because $+\pi == -\pi$).

with:

s_phi[sf][ch][n] – For sub-frame sf and channel ch, this represents the phase parameter of the n-th sinusoid. This value is converted into a phase value in radians in the range $[-\pi, \pi]$ conforming to

$$sp_q[n] = 2 \cdot sp_e \cdot s_phi[sf][ch][n],$$

where sp_e represents the absolute phase error ($sp_e = \frac{\pi}{32}$) and sp_q represents the dequantized absolute phase (in radians). The allowed range for s_phi is [-16, 15].

In subclause 8.5.2, replace:

The default and the fine quantization grids for IID, iid_quant = %0 and iid_quant = %1 are as provided in 8.B.18 and 8.B.17 respectively.

with:

The default and the fine quantization grids for IID, iid_quant = %0 and iid_quant = %1 are as provided in Table 8.25 and Table 8.26 respectively.

In subclause 8.5.2, replace:

enable_ext – The PS extension layer is enabled using the enable_ext bit. If it is set to %1 the IPD and OPD parameters are sent. If it's disabled, i.e. %0, the extension layer is skipped.

with:

enable_ext – The PS extension layer is enabled using the enable_ext bit. If it is set to %1 the IPD and OPD parameters are sent. If it is disabled, i.e. %0, the extension layer is skipped and **enable_ipdopd** is set to %0.

In subclause 8.5.2, replace:

iid_dt[e] – This flag describes for envelope index e, whether the IID parameters are coded differentially over time (iid_dt==%1) or over frequency (iid_dt==%0). In the case iid_mode is different from the previous envelope (e-1), iid_dt[e] shall have the value 0% forcing frequency differential coding.

with:

iid_dt[e] – This flag describes for envelope index e, whether the IID parameters are coded differentially over time (iid_dt==%1) or over frequency (iid_dt==%0). In the case iid_mode of the current ps_data() element is different from iid_mode of the previous ps_data() element, iid_dt[0] shall have the value 0% forcing frequency differential coding.

In subclause 8.5.2, replace:

icc_dt[e] – This flag describes for envelope index e, whether the ICC parameters are coded differentially over time (icc_dt==%1) or over frequency (icc_dt==%0). In the case icc_mode is different from the previous envelope (e-1), icc_dt[e] shall have the value 0% forcing frequency differential coding.

with:

icc_dt[e] – This flag describes for envelope index e, whether the ICC parameters are coded differentially over time (icc_dt==%1) or over frequency (icc_dt==%0). In the case icc_mode of the current ps_data() element is different from icc_mode of the previous ps_data() element, icc_dt[0] shall have the value 0% forcing frequency differential coding.

In subclause 8.5.2, replace:

enable_ipdopd – The application of IPD and OPD parameters in the bit-stream is denoted by enable_ipdopd. If set (enable_ipdopd==%1) IPD and OPD parameters are sent, if disabled (enable_ipdopd==%0) no IPD and OPD parameters are sent for the current frame in the bit-stream. The quantization grid for both IPD and OPD is provided in Table 8.31. If no IPD or OPD data is sent in the bit-stream, all IPD and OPD parameters are set to 0 (i.e. index=0).

with:

enable_ipdopd – The application of IPD and OPD parameters in the bit-stream is denoted by enable_ipdopd. If set (enable_ipdopd==%1) IPD and OPD parameters are sent, if disabled (enable_ipdopd==%0) no IPD and OPD parameters are sent for the current frame in the bit-stream. In the case enable_iid==%0, enable_ipdopd shall not be set to %1. The quantization grid for both IPD and OPD is provided in Table 8.31. If no IPD or OPD data is sent in the bit-stream, all IPD and OPD parameters are set to 0 (i.e. index=0).