



INTERNATIONAL STANDARD ISO/IEC 23003-3:2012
TECHNICAL CORRIGENDUM 2

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Information technology — MPEG audio technologies —

Part 3: Unified speech and audio coding

TECHNICAL CORRIGENDUM 2

Technologies de l'information — Technologies audio MPEG —

Partie 3: Discours unifié et codage audio

RECTIFICATIF TECHNIQUE 2

Technical Corrigendum 2 to ISO/IEC 23003-3:2012 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

At the end of 4.5.3 add:

"

Furthermore, restrictions on the sampling rate apply for the USAC Baseline profile. The sampling rate signaled as part of the `UsacConfig()` shall be one out of those listed in Table 3. These sampling rates are chosen such that they can conveniently be resampled to 44100 Hz and 48000 Hz, respectively.

Table 3 — Allowed sampling rates for the Baseline USAC profile

SamplingRates [Hz] and usacSamplingFrequencyIndex			
88200	0x01	96000	0x00
70560	n/a	76800	n/a
58800	n/a	64000	0x02
44100	0x04	48000	0x03
35280	n/a	38400	0x12
29400	n/a	32000	0x05
22050	0x07	24000	0x06
17640	n/a	19200	0x17
14700	n/a	16000	0x08
11760	n/a	12800	0x1a
11025	0x0a	12000	0x09
8820	n/a	9600	0x1b
7350	0x0c	8000	0x0b

"

In 5.3.2 replace:

“

Table 23 – Syntax of UsacCoreCoderData()

Syntax	No. of bits	Mnemonic
<pre> UsacCoreCoderData(nrChannels, indepFlag) { for (ch=0; ch < nrChannels; ch++) { core_mode[ch]; } if (nrChannels == 2) { StereoCoreToolInfo(core_mode); } for (ch=0; ch<nrChannels; ch++) { if (core_mode[ch] == 1) { lpd_channel_stream(indepFlag); } else { if ((nrChannels == 1) (core_mode[0] != core_mode[1])) { tns_data_present[ch]; } fd_channel_stream(common_window, common_tw, tns_data_present[ch], noiseFilling, indepFlag); } } } </pre>	1 1	uimbsf uimbsf

“

With:

“

Table 23 – Syntax of UsacCoreCoderData()

Syntax	No. of bits	Mnemonic
UsacCoreCoderData(nrChannels, indepFlag)		
{		
for (ch=0; ch < nrChannels; ch++) {		
core_mode [ch];	1	uimsbf
}		
if (nrChannels == 2) {		
StereoCoreToolInfo(core_mode);		
}		
for (ch=0; ch<nrChannels; ch++) {		
if (core_mode[ch] == 1) {		
lpd_channel_stream(indepFlag);		NOTE 1
}		
else {		
if ((nrChannels == 1) (core_mode[0] != core_mode[1])) {		
tns_data_present [ch];	1	uimsbf
}		
fd_channel_stream(common_window, common_tw,		NOTE 2
tns_data_present[ch], noiseFilling, indepFlag);		
}		
}		
}		
Note 1: Each channel shall have its own instance of lpd_channel_stream		
Note 2: Each channel shall have its own instance of fd_channel_stream		

“

In Table 23, replace

”

```
if (nrChannels == 2) {
    StereoCoreToolInfo(core_mode);
}
```

”

With

”

```
if (nrChannels == 2) {
    StereoCoreToolInfo(core_mode, stereoConfigIndex);
}
```

”

In Table 24, replace

”

```
if (ms_mask_present == 3) {
    cplx_pred_data();
}
```

”

With

```
"
if ((ms_mask_present == 3) && (stereoConfigIndex == 0)){
    cplx_pred_data();
}
"
```

In Table 35, replace

```
"
for (k=0; k<no_qn; k++) {
    qn_data(nk_mode, no_qn)
}
"
```

With

```
"
qn_data(nk_mode, no_qn);
"
```

In Table 38, replace

```
"
arith_finish(x_ac_dec, i, N);
"
```

With

```
"
arith_finish(x_ac_dec, i, N, lg);
"
```

In 7.4.3, replace

```
"
arith_finish(x_ace_dec, offset, N)
{
    arith_rewind_bitstream(14);
    for (i=offset ; i<N/4; i++) {
        x_ac_dec[2*i] = 0;
        x_ac_dec[2*i+1] = 0;
        q[1][i] = 1;
    }
}
"
```

With

```
"
arith_finish(x_ace_dec, offset, N, lg)
{
    if(lg>0) arith_rewind_bitstream(14);
    for (i=offset ; i<N/4; i++) {
        x_ac_dec[2*i] = 0;
        x_ac_dec[2*i+1] = 0;
    }
}
"
```