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

**Part 3:  
Audio**

**AMENDMENT 6: Profiles, levels and  
downmixing method for 22.2 channel  
programs**

*Technologies de l'information — Codage des objets audiovisuels —  
Partie 3: Codage audio  
AMENDEMENT 6: .*





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# Information technology — Coding of audio-visual objects —

## Part 3: Audio

### AMENDMENT 6: Profiles, levels and downmixing method for 22.2 channel programs

Page 31, 1.5.2.3

Replace:

**Table 1.10 — Levels for the AAC Profile**

| Level | Max. channels/<br>object | Max. sampling<br>rate [kHz] | Max. PCU | Max. RCU |
|-------|--------------------------|-----------------------------|----------|----------|
| 1     | 2                        | 24                          | 3        | 5        |
| 2     | 2                        | 48                          | 6        | 5        |
| 3     | NA                       | NA                          | NA       | NA       |
| 4     | 5                        | 48                          | 19       | 15       |
| 5     | 5                        | 96                          | 38       | 15       |
| 6     | 7                        | 48                          | 25       | 19       |
| 7     | 7                        | 96                          | 50       | 19       |

with:

**Table 1.10 — Levels for the AAC Profile**

| Level | Max. channels/<br>object | Max. sampling<br>rate [kHz] | Max. PCU | Max. RCU |
|-------|--------------------------|-----------------------------|----------|----------|
| 1     | 2                        | 24                          | 3        | 5        |
| 2     | 2                        | 48                          | 6        | 5        |
| 3     | NA                       | NA                          | NA       | NA       |
| 4     | 5                        | 48                          | 19       | 15       |
| 5     | 5                        | 96                          | 38       | 15       |
| 6     | 7                        | 48                          | 25       | 19       |
| 7     | 7                        | 96                          | 50       | 19       |
| 8     | 22                       | 48                          | 73       | 56       |
| 9     | 22                       | 96                          | 146      | 56       |

Insert the following new entries into Table 1.14 “audioProfileLevelIndication values” and adapt the “reserved for ISO use” range accordingly:

|             |                      |    |
|-------------|----------------------|----|
| 0x5D        | AAC Profile          | L8 |
| 0x5E        | AAC Profile          | L9 |
| 0x5F - 0x7F | reserved for ISO use | -  |

Replace:

**Table AMD4.3 — Syntax of MPEG4\_ancillary\_data**

| Syntax                                               | No. of Bits | Mnemonic |
|------------------------------------------------------|-------------|----------|
| MPEG4_ancillary_data() {                             |             |          |
| <b>ancillary_data_sync;</b>                          | 8           | bslbf    |
| <b>mpeg_audio_type</b>                               | 2           | bslbf    |
| <b>dolby_surround_mode</b>                           | 2           | bslbf    |
| <b>drc_presentation_mode</b>                         | 2           | bslbf    |
| <b>stereo_downmix_mode;</b>                          | 1           | bslbf    |
| bs_info_reserved, set to “0”                         | 1           | bslbf    |
| anc_data_status_reserved, set to “000”               | 3           | bslbf    |
| <b>downmixing_levels_MPEG4_status</b>                | 1           | bslbf    |
| <b>ancillary_data_extension_status;</b>              | 1           | bslbf    |
| <b>audio_coding_and_compression_status</b>           | 1           | bslbf    |
| <b>coarse_grain_timecode_status</b>                  | 1           | bslbf    |
| <b>fine_grain_timecode_status</b>                    | 1           | bslbf    |
| if (downmixing_levels_MPEG4_status == 1) {           |             |          |
| <b>center_mix_level_on</b>                           | 1           | bslbf    |
| <b>center_mix_level_value</b>                        | 3           | bslbf    |
| <b>surround_mix_level_on</b>                         | 1           | bslbf    |
| <b>surround_mix_level_value</b>                      | 3           | bslbf    |
| }                                                    |             |          |
| If (audio_coding_mode_and_compression_status == 1) { |             |          |
| <b>audio_coding_mode_reserved</b>                    | 7           | bslbf    |
| <b>compression_on</b>                                | 1           | bslbf    |
| <b>compression_value</b>                             | 8           | bslbf    |
| }                                                    |             |          |
| if(coarse_grain_timecode_status == 1)                |             |          |
| <b>coarse_grain_timecode</b>                         | 16          | bslbf    |
| if(fine_grain_timecode_status == 1)                  |             |          |
| <b>fine_grain_timecode</b>                           | 16          | bslbf    |
| if (ancillary_data_extension_status == 1){           |             |          |
| reserved, set to “0”                                 | 1           | bslbf    |
| <b>ext_downmixing_levels_status;</b>                 | 1           | bslbf    |
| <b>ext_downmixing_global_gains_status;</b>           | 1           | bslbf    |
| <b>ext_downmixing_lfe_level_status;</b>              | 1           | bslbf    |
| reserved, set to “0000”                              | 4           | bslbf    |
| if (ext_downmixing_levels_status == 1){              |             |          |
| <b>dmix_a_idx;</b>                                   | 3           | bslbf    |
| <b>dmix_b_idx;</b>                                   | 3           | bslbf    |
| reserved, set to “00”                                | 2           | bslbf    |
| }                                                    |             |          |

Table (continued)

| Syntax                                         | No. of Bits | Mnemonic |
|------------------------------------------------|-------------|----------|
| if (ext_downmixing_global_gains_status == 1) { |             |          |
| <b>dmx_gain_5_sign;</b>                        | 1           | bslbf    |
| <b>dmx_gain_5_idx;</b>                         | 6           | bslbf    |
| reserved, set to "0"                           | 1           | bslbf    |
| <b>dmx_gain_2_sign;</b>                        | 1           | bslbf    |
| <b>dmx_gain_2_idx;</b>                         | 6           | bslbf    |
| reserved, set to "0"                           | 1           | bslbf    |
| }                                              |             |          |
| if (ext_downmixing_lfe_level_status == 1) {    |             |          |
| <b>dmix_lfe_idx;</b>                           | 4           | bslbf    |
| reserved, set to "0000"                        | 4           | bslbf    |
| }                                              |             |          |
| }                                              |             |          |

with:

Table AMD4.3 — Syntax of MPEG4\_ancillary\_data

| Syntax                                               | No. of Bits | Mnemonic |
|------------------------------------------------------|-------------|----------|
| MPEG4_ancillary_data() {                             |             |          |
| <b>ancillary_data_sync;</b>                          | 8           | bslbf    |
| <b>mpeg_audio_type</b>                               | 2           | bslbf    |
| <b>dolby_surround_mode</b>                           | 2           | bslbf    |
| <b>drc_presentation_mode</b>                         | 2           | bslbf    |
| <b>stereo_downmix_mode;</b>                          | 1           | bslbf    |
| bs_info_reserved, set to "0"                         | 1           | bslbf    |
| anc_data_status_reserved, set to "000"               | 3           | bslbf    |
| <b>downmixing_levels_MPEG4_status</b>                | 1           | bslbf    |
| <b>ancillary_data_extension_status;</b>              | 1           | bslbf    |
| <b>audio_coding_and_compression_status</b>           | 1           | bslbf    |
| <b>coarse_grain_timecode_status</b>                  | 1           | bslbf    |
| <b>fine_grain_timecode_status</b>                    | 1           | bslbf    |
| }                                                    |             |          |
| if (downmixing_levels_MPEG4_status == 1) {           |             |          |
| <b>center_mix_level_on</b>                           | 1           | bslbf    |
| <b>center_mix_level_value</b>                        | 3           | bslbf    |
| <b>surround_mix_level_on</b>                         | 1           | bslbf    |
| <b>surround_mix_level_value</b>                      | 3           | bslbf    |
| }                                                    |             |          |
| If (audio_coding_mode_and_compression_status == 1) { |             |          |
| <b>audio_coding_mode_reserved</b>                    | 7           | bslbf    |
| <b>compression_on</b>                                | 1           | bslbf    |
| <b>compression_value</b>                             | 8           | bslbf    |
| }                                                    |             |          |
| if(coarse_grain_timecode_status == 1)                |             |          |
| <b>coarse_grain_timecode</b>                         | 16          | bslbf    |
| if(fine_grain_timecode_status == 1)                  |             |          |
| <b>fine_grain_timecode</b>                           | 16          | bslbf    |
| if (ancillary_data_extension_status == 1){           |             |          |

Table (continued)

| Syntax                                         | No. of Bits | Mnemonic |
|------------------------------------------------|-------------|----------|
| reserved, set to "0"                           | 1           | bslbf    |
| <b>ext_downmixing_levels_status;</b>           | 1           | bslbf    |
| <b>ext_downmixing_global_gains_status;</b>     | 1           | bslbf    |
| <b>ext_downmixing_lfe_level_status;</b>        | 1           | bslbf    |
| reserved, set to "0000"                        | 4           | bslbf    |
| if (ext_downmixing_levels_status == 1){        |             |          |
| <b>dmix_a_idx;</b>                             | 3           | bslbf    |
| <b>dmix_b_idx;</b>                             | 3           | bslbf    |
| reserved, set to "00"                          | 2           | bslbf    |
| }                                              |             |          |
| if (ext_downmixing_global_gains_status == 1) { |             |          |
| <b>dmx_gain_5_sign;</b>                        | 1           | bslbf    |
| <b>dmx_gain_5_idx;</b>                         | 6           | bslbf    |
| reserved, set to "0"                           | 1           | bslbf    |
| <b>dmx_gain_2_sign;</b>                        | 1           | bslbf    |
| <b>dmx_gain_2_idx;</b>                         | 6           | bslbf    |
| reserved, set to "0"                           | 1           | bslbf    |
| }                                              |             |          |
| if (ext_downmixing_lfe_level_status == 1) {    |             |          |
| <b>dmix_lfe_idx;</b>                           | 4           | bslbf    |
| reserved, set to "0000"                        | 4           | bslbf    |
| }                                              |             |          |
| }                                              |             |          |
| <b>ancillary_data_sync2;</b>                   | 8           | bslbf    |
| <b>ext_downmixing_level_status2;</b>           | 1           | bslbf    |
| if (ext_downmixing_levels_status2 == 1) {      |             |          |
| <b>dmix_c_idx;</b>                             | 3           | bslbf    |
| <b>dmix_d_idx;</b>                             | 3           | bslbf    |
| <b>dmix_e_idx;</b>                             | 3           | bslbf    |
| <b>dmix_f_idx;</b>                             | 3           | bslbf    |
| <b>dmix_g_idx;</b>                             | 3           | bslbf    |
| <b>dmix_l_idx;</b>                             | 4           | bslbf    |
| reserved, set to "0000"                        | 4           | bslbf    |
| } else {                                       |             |          |
| reserved, set to "0000000"                     | 7           | bslbf    |
| }                                              |             |          |
| byte_alignment();                              |             |          |
| }                                              |             |          |

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In 4.5.2.14.1.1 “Data elements”, add the following elements:

|                                      |                                                                                                                           |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>ancillary_data_sync2</b>          | indicates the presence of MPEG-4 Audio ancillary data 2 and shall be set to 0xBD                                          |
| <b>ext_downmixing_levels_status2</b> | indicates if downmixing coefficients for channelConfiguration = 13 exist                                                  |
| <b>dmix_c_idx</b>                    | indicates an index for the generation of a 5-channel downmix from 22-channel as shown in Tables AMD4.8 and AMD6.1         |
| <b>dmix_d_idx</b>                    | indicates an index for the generation of a 5-channel downmix from 22-channel as shown in Tables AMD4.8 and AMD6.1         |
| <b>dmix_e_idx</b>                    | indicates an index for the generation of a 5-channel downmix from 22-channel as shown in Tables AMD4.8 and AMD6.1         |
| <b>dmix_f_idx</b>                    | indicates an index for the generation of a 5-channel downmix from 22-channel as shown in Tables AMD4.8 and AMD6.1         |
| <b>dmix_g_idx</b>                    | indicates an index for the generation of a 5-channel downmix from 22-channel as shown in Tables AMD4.8 and AMD6.1         |
| <b>dmix_l_idx</b>                    | indicates an index for LFE for the generation of a 5-channel downmix from 22-channel as shown in Tables AMD4.9 and AMD6.1 |

In 4.5.2.14.2 “Decoding process”, replace:

If a 2-channel stereo downmix is to be derived from a 6.1 or 7.1 stream,

with:

If a 2-channel stereo downmix is to be derived from a 6.1, 7.1 or 22.2 stream,

In 4.5.2.14.2.1 “Downmixing from 5.1 to Stereo/Mono”, replace:

**Table AMD4.8 — Definition of mix level value**

| dmix_a_idx,<br>dmix_b_idx<br>surround_mix_level, “a”<br>center_mix_level, “b” | Multiplication factor |
|-------------------------------------------------------------------------------|-----------------------|
| 000                                                                           | 1.0 (0dB)             |
| 001                                                                           | 0.841 (-1.5dB)        |
| 010                                                                           | 0.707 (-3dB)          |
| 011                                                                           | 0.596 (-4.5dB)        |
| 100                                                                           | 0.500 (-6dB)          |
| 101                                                                           | 0.422 (-7.5dB)        |
| 110                                                                           | 0.355 (-9dB)          |
| 111                                                                           | 0.000 (-∞dB)          |

with:

**Table AMD4.8 — Definition of mix level value**

| dmix_a_idx<br>dmix_b_idx<br>dmix_c_idx<br>dmix_d_idx<br>dmix_e_idx<br>dmix_f_idx<br>dmix_g_idx<br>surround_mix_level, “a”<br>center_mix_level, “b” | Multiplication factor |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 000                                                                                                                                                | 1.0 (0dB)             |
| 001                                                                                                                                                | 0.841 (-1.5dB)        |
| 010                                                                                                                                                | 0.707 (-3dB)          |
| 011                                                                                                                                                | 0.596 (-4.5dB)        |
| 100                                                                                                                                                | 0.500 (-6dB)          |
| 101                                                                                                                                                | 0.422 (-7.5dB)        |
| 110                                                                                                                                                | 0.355 (-9dB)          |
| 111                                                                                                                                                | 0.000 (-∞dB)          |

In 4.5.2.14.2.1 “Downmixing from 5.1 to Stereo/Mono”, replace:

**Table AMD4.9 — Definition of LFE mix level value**

| <b>dmix_lfe_idx</b> | <b>Multiplication factor</b> |
|---------------------|------------------------------|
| 0000                | 3.162 (+10dB)                |
| 0001                | 2.000 (+6dB)                 |
| 0010                | 1.679 (+4.5dB)               |
| 0011                | 1.413 (+3 dB)                |
| 0100                | 1.189 (+1.5dB)               |
| 0101                | 1.0 (0dB)                    |
| 0110                | 0.841 (-1.5dB)               |
| 0111                | 0.707 (-3dB)                 |
| 1000                | 0.596 (-4.5dB)               |
| 1001                | 0.500 (-6dB)                 |
| 1010                | 0.316 (-10 dB)               |
| 1011                | 0.178 (-15dB)                |
| 1100                | 0.100 (-20dB)                |
| 1101                | 0.032 (-30dB)                |
| 1110                | 0.010 (-40dB)                |
| 1111                | 0.000 ( $-\infty$ dB)        |

with:

**Table AMD4.9 — Definition of LFE mix level value**

| <b>dmix_l_idx<br/>dmix_lfe_idx</b> | <b>Multiplication factor</b> |
|------------------------------------|------------------------------|
| 0000                               | 3.162 (+10dB)                |
| 0001                               | 2.000 (+6dB)                 |
| 0010                               | 1.679 (+4.5dB)               |
| 0011                               | 1.413 (+3 dB)                |
| 0100                               | 1.189 (+1.5dB)               |
| 0101                               | 1.0 (0dB)                    |
| 0110                               | 0.841 (-1.5dB)               |
| 0111                               | 0.707 (-3dB)                 |
| 1000                               | 0.596 (-4.5dB)               |
| 1001                               | 0.500 (-6dB)                 |
| 1010                               | 0.316 (-10 dB)               |
| 1011                               | 0.178 (-15dB)                |
| 1100                               | 0.100 (-20dB)                |
| 1101                               | 0.032 (-30dB)                |
| 1110                               | 0.010 (-40dB)                |
| 1111                               | 0.000 ( $-\infty$ dB)        |

After 4.5.2.14.2.2, insert the following subclause:

#### 4.5.2.14.2.3 Downmixing from 22.2 to 5.1

**Table AMD6.1 — Definition of downmixing\_levels**

| Channel configuration | dmix_c_idx | dmix_d_idx | dmix_e_idx | dmix_f_idx | dmix_g_idx | dmix_l_idx |
|-----------------------|------------|------------|------------|------------|------------|------------|
| 22.2 ch               | g1         | g2         | g3         | g4         | g5         | g6         |

$$C' = FC + g1 \times FLc + g1 \times FRc + g3 \times (TpFC + g4 \times TpC + BtFC)$$

$$L' = FL + g1 \times FLc + g2 \times SiL + g3 \times (TpFL + g2 \times TpSiL + BtFL)$$

$$R' = FR + g1 \times FRc + g2 \times SiR + g3 \times (TpFR + g2 \times TpSiR + BtFR)$$

$$Ls' = BL + g5 \times BC + g2 \times SiL + g3 \times (TpBL + g5 \times TpBC + g2 \times TpSiL + g4 \times TpC)$$

$$Rs' = BR + g5 \times BC + g2 \times SiR + g3 \times (TpBR + g5 \times TpBC + g2 \times TpSiR + g4 \times TpC)$$

$$LFE' = g6 \times (LFE1 + LFE2)$$

FLc and FRc mix level “g1”, side mix level “g2”, height mix level “g3”, TpC mix level “g4” and BC mix level “g5” are shown in Table AMD4.8. The LFE mix level “g6” shall be derived as shown in table AMD4.9.

FL, FR, FC, LFE1, BL, BR, FLc, FRc, BC, LFE2, SiL, SiR, TpFL, TpFR, TpFC, TpC, TpBL, TpBR, TpSiL, TpSiR, TpBC, BtFC, BtFL, and BtFR are the source signals and C', L', R', Ls', Rs', LFE' are the derived 5.1ch.

In 4.5.2.14.2.5 “Persistence of MPEG-4 ancillary data”, replace:

**Table AMD4.12 — Default values after synchronization**

| Data field               | Default value         |
|--------------------------|-----------------------|
| dolby_surround_mode      | “00”                  |
| drc_presentation_mode    | “00”                  |
| center_mix_level_value   | “010”                 |
| surround_mix_level_value | “010”                 |
| compression_on           | “0”                   |
| compression_value        | “0000 0000”           |
| coarse_grain_timecode    | “00 0000000000000000” |
| fine_grain_timecode      | “00 0000000000000000” |
| dmix_a_idx               | “010”                 |
| dmix_b_idx               | “010”                 |
| dmix_gain_5              | “000000”              |
| dmix_gain_2              | “000000”              |
| dmix_lfe_idx             | “1111”                |

with:

**Table AMD4.12 — Default values after synchronization**

| Data field               | Default value         |
|--------------------------|-----------------------|
| dolby_surround_mode      | “00”                  |
| drc_presentation_mode    | “00”                  |
| center_mix_level_value   | “010”                 |
| surround_mix_level_value | “010”                 |
| compression_on           | “0”                   |
| compression_value        | “0000 0000”           |
| coarse_grain_timecode    | “00 0000000000000000” |
| fine_grain_timecode      | “00 0000000000000000” |
| dmix_a_idx               | “010”                 |
| dmix_b_idx               | “010”                 |
| dmix_c_idx               | “011”                 |
| dmix_d_idx               | “011”                 |
| dmix_e_idx               | “000”                 |
| dmix_f_idx               | “100”                 |
| dmix_g_idx               | “010”                 |
| dmix_l_idx               | “0111”                |
| dmix_gain_5              | “000000”              |
| dmix_gain_2              | “000000”              |
| dmix_lfe_idx             | “1111”                |

Extend Table 4.180 “Syntax of ELDSpecificConfig()” as follows:

#### 4.6.20.3 ELDSpecificConfig

Table 4.180 — Syntax of ELDSpecificConfig()

| Syntax                                           | No. of bits | Mnemonic      |
|--------------------------------------------------|-------------|---------------|
| ELDSpecificConfig (channelConfiguration)         |             |               |
| {                                                |             |               |
| <b>frameLengthFlag;</b>                          | 1           | <b>bslbf</b>  |
| <b>aacSectionDataResilienceFlag;</b>             | 1           | <b>bslbf</b>  |
| <b>aacScalefactorDataResilienceFlag;</b>         | 1           | <b>bslbf</b>  |
| <b>aacSpectralDataResilienceFlag;</b>            | 1           | <b>bslbf</b>  |
| <b>ldSbrPresentFlag;</b>                         | 1           | <b>bslbf</b>  |
| If (ldSbrPresentFlag) {                          |             |               |
| <b>ldSbrSamplingRate;</b>                        | 1           | <b>bslbf</b>  |
| <b>ldSbrCrcFlag;</b>                             | 1           | <b>bslbf</b>  |
| ld_sbr_header(channelConfiguration);             |             |               |
| }                                                |             |               |
| useLDQMFTTimeAligment = 0;                       |             |               |
| while ( <b>eldExtType</b> != ELDEXT_TERM) {      | 4           | <b>bslbf</b>  |
| <b>eldExtLen;</b>                                | 4           | <b>uimsbf</b> |
| len = eldExtLen;                                 |             |               |
| if (eldExtLen == 15) {                           |             |               |
| <b>eldExtLenAdd;</b>                             | 8           | <b>uimsbf</b> |
| len += eldExtLenAdd;                             |             |               |
| }                                                |             |               |
| if (eldExtLenAdd == 255) {                       |             |               |
| <b>eldExtLenAddAdd;</b>                          | 16          | <b>uimsbf</b> |
| len += eldExtLenAddAdd;                          |             |               |
| }                                                |             |               |
| switch (eldExtType) {                            |             |               |
| case ELDEXT_SAOC:                                |             |               |
| saocPresentFlag = 1;                             |             |               |
| useLDQMFTTimeAligment = 1;                       |             |               |
| SAOCSpecificConfig();                            |             | Note 1        |
| break;                                           |             |               |
| case ELDEXT_LDSAC:                               |             |               |
| ldmpsPresentFlag = 1;                            |             |               |
| useLDQMFTTimeAligment = 1;                       |             |               |
| LDSpatialSpecificConfig();                       |             | Note 1        |
| break;                                           |             |               |
| case ELDEXT_DOWNSCALEINFO:                       |             | Note 2        |
| <b>downscaledSamplingFrequencyIndex</b>          | 4           | <b>bslbf</b>  |
| if ( downscaledSamplingFrequencyIndex == 0xf ) { |             | <b>uimsbf</b> |
| <b>downscaledSamplingFrequency</b>               | 24          |               |
| }                                                |             |               |
| }                                                |             |               |