COMMITTEE DRAFT© ISO/IEC 2014 – All rights reservedISO/IEC CD 23008-3 63Part 3: 3D audioInformation technology — High efficiency coding and media delivery in heterogeneous environmentsInformation technology — High efficiency coding and media delivery in heterogeneous environments — Partie 3: 3D audioInformation technology — High efficiency coding and media delivery in heterogeneous environments — Part 3: 3D audioE2014-04-4(30) CommitteeISO/IECISO/IEC J   International Standard2014 ISO/IEC 23008‑ISO/IEC 23008‑3ISO/IEC CD 23008-3 JISCCoding of audio, picture, multimedia and hypermedia informationInformation technology11291 2Heading 2;h2;H2Heading 1;h1;H1    02 STD Version 2.1c230   4C:\Users\ndf\Documents\projects\\_\_Mpeg\MPEG\_108 work directory\_Valencia\input\_preparation\Proposed CD\ISO-IEC\_23008-3\_(E)\_(CD of 3DA)\_v00.doc            ISO/IEC JTC 1/SC 29 N

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Information technology — Coding of audio-visual objects — Part 3: Audio, AMENDMENT 1: New Levels for MPEG-4 ALS Simple Profile for supporting high-resolution audio

*Élément introductif — Élément central — Partie 3: Titre de la partie*

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Foreword

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Amendment 1 to ISO/IEC 14496‑3:2019 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information teehnology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia*.

Information technology — Coding of audio-visual objects — Part 3: Audio, AMENDMENT 1: New Levels for MPEG-4 ALS Simple Profile for supporting high-resolution audio

# Changes to the text of ISO/IEC 14496-3:2019

*In 1.5.2.1 (Profiles), add levels 5, 6, and 7 to ALS Simple Profile.*

1. **Levels for the ALS Simple Profile**

Table 1.15 – Level for the ALS Simple Profile

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Level | Max. number of channels | Max. sampling rate [kHz] | Max. word length [bit] | Max. number of samples per frame | Max. prediction order | Max. BS stages | Max. MCC stages |
| 1 | 2 | 48 | 16 | 4 096 | 15 | 3 | 1 |
| 2 | 2 | 48 | 24 | 4 096 | 15 | 3 | 1 |
| 3 | 6 | 48 | 16 | 4 096 | 15 | 3 | 1 |
| 4 | 6 | 48 | 24 | 4 096 | 15 | 3 | 1 |
| 5 | 2 | 96 | 24 | 4 096 | 15 | 3 | 1 |
| 6 | 2 | 192 | 24 | 4 096 | 15 | 3 | 1 |
| 7 | 8 | 192 | 24 | 4 096 | 15 | 3 | 1 |
| **Key**  BS: Block switching  MCC: Multi-channel coding | | | | | | | |

The BGMC tool and the RLS-LMS tool are not permitted. Floating-point audio data is not supported.

*In 1.5.2.4 (audioProfileLevelIndication), insert the following new entries into Table 1.17 (audioProfileLevelIndication values) and adapt the “reserved for ISO use” range accordingly:*

|  |  |  |
| --- | --- | --- |
| **Value** | **Profile** | **Level** |
| … |  |  |
| 0x3C | ALS Simple Profile | L1 |
| … |  |  |
| 0x5A | ALS Simple Profile | L2 |
| 0x5B | ALS Simple Profile | L3 |
| 0x5C | ALS Simple Profile | L4 |
| … |  |  |
| 0x5E | AAC Profile | L9 |
| 0x5F | ALS Simple Profile | L5 |
| 0x60 | ALS Simple Profile | L6 |
| 0x61 | ALS Simple Profile | L7 |
| 0x62 - 0x7F | reserved for ISO use | - |
| … |  |  |