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

Part 4:

Conformance testing

**AMENDMENT 18: Conformance of
MPEG-1/2 Audio in MPEG-4**

Technologies de l'information — Codage des objets audiovisuels —

Partie 4: Essai de conformité

AMENDEMENT 18: Conformité de MPEG-1/2 Audio dans MPEG-4

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Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

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Amendment 18 to ISO/IEC 14496-4:2004 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

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In subclause 6.5.1 File name conventions, insert the following row into Table 29 after the row for DST:

Layer-3	l3_<coreSetup>_<fs>	l3_<coreSetup>_<fs>_<chan>
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In subclause 6.6, add the following subclause:

6.6.21 Layer-3

6.6.21.1 Compressed data

6.6.21.1.1 Characteristics

Conformant Layer-3 compressed MPEG-4 data shall have the Layer-3 data stored as specified in ISO/IEC 14496-3, subpart 9.

6.6.21.1.2 Test procedure

Each compressed data shall meet the syntactic and semantic requirements specified in ISO/IEC 14496-3. The decoded data shall also meet the requirements defined in ISO/IEC 11172-3 and ISO/IEC 13818-3. If a syntactic element is not listed below, no restrictions apply to that element. The **reserved** element shall be encoded with the value zero.

6.6.21.1.2.1 AudioSpecificConfig

audioObjectType: Shall be encoded with the value 34.

6.6.21.1.2.2 Bitstream payload

syncword: shall be set to the total length of the mp3_channel_element (consisting of header, error_check, side_info and main data) in bytes

main_data_begin (9/8 bit): shall be set to the correct value for the corresponding MPEG-1/2 Layer 3 bitstream, or to zero

main_data(): shall be stored immediately following the side information

6.6.21.2 Decoders

6.6.21.2.1 Characteristics

The MPEG-4 Layer-3 object type ("mp3on4") is the counterpart to the MPEG-1/2 Layer-3, though also offering multi-channel support and support for lower sampling rates. The compressed MPEG-4 data syntax is defined in ISO/IEC 14496-3. The Audio Object Type Layer-3 contains re-formatted ISO/IEC 11172-3 or ISO/IEC 13818-3 Layer 3 compressed data.

6.6.21.2.2 Test procedure

The test procedures specified in ISO/IEC 11172-4 and ISO/IEC 13818-4 shall be applied. If no test is specified, a check of conformance using appropriate measurements, e.g. the LSB criterion or objective perceptual measurement systems, is not mandatory but highly recommended.

6.6.21.2.3 Test sequences

To test MPEG-4 Layer-3 decoders, ISO/IEC JTC 1/SC 29/WG 11 supplies a number of test sequences. The test sequences are defined in Table AMD18.1.