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

**Part 4:
Conformance testing**

**AMENDMENT 1: Conformance testing for
MPEG-4**

Technologies de l'information — Codage des objets audiovisuels —

Partie 4: Essai de conformité

AMENDEMENT 1: Essai de conformité pour MPEG-4



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Foreword

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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 1 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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Add the following text at the end of Clause 4.

4.8 Advanced Synchronization Model (FlexTime Model)

4.8.1 Bitstream conformance

4.8.1.1 Conformance Requirements

BIFS streams shall comply with the specifications of FlexTime nodes in Clause 9 of ISO/IEC 14496-1.

4.8.1.2 Measurement procedure

Syntax of the BIFS stream shall meet the requirements of FlexTime nodes in Clause 9 of ISO/IEC 14496-1.

4.8.1.3 Tolerance

There is no tolerance for bitstream syntax checking. The diagnosis is pass or fail.

4.8.2 Terminal conformance

4.8.2.1 Conformance Points

FlexTime conformance points are defined in the TemporalGroup node by the Temporal constraints "Co-End", "Meet" and "Co-Begin".

4.8.2.2 Measurement Procedure

The terminal shall produce formatted output each time a Temporal constraint is met. Typically, when a temporal constraint is met, certain objects end and certain objects begin. The output is to include:

- The time that the constraint was met, in seconds.
- The type of constraint that was met, i.e. "Co-End", "Meet" or "Co-Begin".
- A list of objects that end. For each ending object:
 - The ES_ID.
 - The minimum, optimum, and maximum duration.
 - The actual duration.
- A list of objects that start. For each starting object:
 - The ES_ID.
 - The minimum, optimum, and maximum duration.