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**Information technology — MPEG
audio technologies —**

**Part 2:
Spatial Audio Object Coding (SAOC)**

**AMENDMENT 5: SAOC Reference
Software**

Technologies de l'information — Technologies audio MPEG —

Partie 2: Codage d'objet audio spatial (SAOC)

AMENDEMENT 5: Logiciel de référence SAOC

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Information technology — MPEG audio technologies —

Part 2: Spatial Audio Object Coding (SAOC)

AMENDMENT 5: SAOC Reference Software

Page 1, Clause 11

Replace Clause 11 with the following.

11 Reference software

11.1 Reference software structure

11.1.1 General

This clause contains simulation software for SAOC as defined in Clause 1 to Clause 9 and Annex A to Annex G. This software has been derived from verification models used in the process of developing the standard.

Reference software is normative in the sense that it correctly implements the SAOC transcoding/decoding processes described in this document. Complying implementations indicated in this document are not expected to follow the algorithms or the programming techniques used by the reference software. Although the decoding software is considered normative, it cannot add anything to the textual technical description of SAOC included in this document.

The software contained in this clause and in Annex H is divided into three categories.

- a) **Bitstream decoding software** is catalogued in 11.2. This software accepts bitstreams encoded according to the normative specification given in this document and decodes the streams into the audio signals associated with each bitstream. While this software appears in the normative part of this specification, attention is drawn to the fact that the implementation techniques used in this software are not considered normative (several different implementations could produce the same result) but the software is considered normative in that it correctly implements the SAOC decoding processes described in this document.
- b) **Bitstream encoding software** is catalogued in Annex H. This software creates bitstreams from associated audio signals. The encoders are provided as a means to obtain bitstreams with the normative syntax described in this document. The techniques used for encoding are not specified by this document, and the quality and complexity of these encoders has not been optimized.
- c) **Utility software** is catalogued in Annex H. This software was found useful by the developers of the standard, but may not conform to the normative specifications given in this document.

File locations in the source tree given in this document are expressed relative to the location of the corresponding reference software package attached to this document.

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11.2 Bitstream decoding software

11.2.1 General

The provided bitstream decoding software is a normative reference implementation of the respective specification.