

ISBN 978-0-626-27900-4

SANS 13818-3:1998
Edition 2 and nat. amdt 1
ISO/IEC 13818-3:1998
Edition 2

Any reference to SABS ISO/IEC 13818-3 is deemed
to be a reference to this standard
(Government Notice No. 1373 of 8 November 2002)

SOUTH AFRICAN NATIONAL STANDARD

Information technology — Generic coding of moving pictures and associated audio information

Part 3: Audio

This national standard is the identical implementation of ISO/IEC 13818-3:1998, and is adopted with the permission of the International Organization for Standardization and the International Electrotechnical Commission.

Published by SABS Standards Division
1 Dr Lategan Road Groenkloof ☒ Private Bag X191 Pretoria 0001
Tel: +27 12 428 7911 Fax: +27 12 344 1568
www.sabs.co.za
© SABS

SABS

SANS 13818-3:1998
Edition 2 and nat. amdt 1
ISO/IEC 13818-3:1998
Edition 2

Table of changes

| Change No. | Date | Scope |
|-------------------|-------------|---|
| Nat. amdt 1 | 2007 | Amended to change the designation from SABS to SANS, with no technical changes. |

National foreword

This South African standard was approved by National Committee SABS TC 74, *Communication technology*, in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement.

This SANS document was published in September 2007.

This SANS document supersedes SABS ISO/IEC 13818-3:1998 (edition 2).

**Reaffirmed and reprinted in December 2012.
This document will be reviewed every five years
and be reaffirmed, amended, revised or withdrawn.**

INTERNATIONAL STANDARD

ISO/IEC
13818-3

Second edition
1998-04-15

Information technology — Generic coding of moving pictures and associated audio information —

Part 3: Audio

*Technologies de l'information — Codage générique des images animées
et des informations sonores associées —*

Partie 3: Son



Reference number
ISO/IEC 13818-3:1998(E)

ISO/IEC 13818-3:1998(E)

Contents

| | Page |
|--|---------------|
| Section 1: General | 1 |
| 1.1 Scope | 1 |
| 1.2 Normative references | 1 |
| Section 2: Technical elements | 2 |
| 2.1 Definitions | 2 |
| 2.2 Symbols and abbreviations | 13 |
| 2.3 Method of describing bit stream syntax | 16 |
| 2.4 Requirements for Extension of ISO/IEC 11172-3 to Lower Sampling Frequencies | 18 |
| 2.5 Requirements for Extension of ISO/IEC 11172-3 to Multichannel Audio | 24 |
| 2.6 Registration of Copyright Identifiers | 65 |
| Annexes | |
| A. Diagrams | 66 |
| B. Tables | 69 |
| C. The encoding process | 73 |
| D. Psychoacoustic models | 84 |
| E. Ancillary Data Use | 108 |
| F. List of patent holders | 110 |
| G. Registration Procedure | 112 |
| H. Registration Application Form | 114 |
| I. Registration Authority | 115 |

© ISO/IEC 1998

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

ISO/IEC Copyright Office • Case Postale 56 • CH1211 Genève 20 • Switzerland

Printed in Switzerland.

Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. 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.

International Standard ISO/IEC 13818-3 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

This second edition cancels and replaces the first edition (ISO/IEC 13818-3:1995), which has been technically revised.

ISO/IEC 13818 consists of the following parts, under the general title *Information technology — Generic coding of moving pictures and associated audio information*:

- *Part 1: Systems*
- *Part 2: Video*
- *Part 3: Audio*
- *Part 4: Compliance testing*
- *Part 5: Software simulation*
- *Part 6: Extensions for DSM-CC*
- *Part 7: Advanced Audio Coding (AAC)*
- *Part 9: Extension for real time interface for systems decoders*
- *Part 10: Conformance extensions for DSM-CC*

Annexes A and B form an integral part of this part of ISO/IEC 13818. Annexes C to I are for information only.