INTERNATIONAL STANDARD

ISO/IEC 14496-32

First edition 2021-01

Information technology — Coding of audio-visual objects —

Part 32:

File format reference software and conformance



ISO/IEC 14496-32:2021(E)



COPYRIGHT PROTECTED DOCUMENT

© ISO/IEC 2021

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office CP 401 • Ch. de Blandonnet 8 CH-1214 Vernier, Geneva Phone: +41 22 749 01 11 Email: copyright@iso.org Website: www.iso.org

Published in Switzerland

Contents				Page	
For	Foreword				
1	Scop	e		1	
2	Norn	Normative references			
3	Terms and definitions			1	
4	Refe	Reference software			
5	Conformance			2	
	5.1	Overvie	ew	2	
	5.2	Standa	rd specific considerations	2	
		5.2.1	Considerations for ISO/IEC 14496-12, 14496-14 and 14496-15	2	
		5.2.2	Considerations for ISO/IEC 14496-30	2	
		5.2.3	Considerations for ISO/IEC 23008-12	3	
	5.3	5.3 File documentation		3	
		5.3.1	Files from related conformance programs	3	
		5.3.2	Files unique to this conformance program	4	
Ann	ex A (in	formative	e) Other tools	21	
Rib	Rihlingranhy				

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents) or the IEC list of patent declarations received (see http://patents.iec.ch).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

A list of all parts in the ISO/IEC 14496 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Information technology — Coding of audio-visual objects —

Part 32:

File format reference software and conformance

1 Scope

This document describes the reference software and conformance suite for the file format documents in MPEG-4 and MPEG-H. Since these documents share a lot of technology, their reference software and conformance program are being handled together. These documents are: ISO/IEC 14496-12, ISO/IEC 14496-15, ISO/IEC 14496-30 and ISO/IEC 23008-12.

The purpose of the conformance suite is to cover the set of valid features that can be exercised in the file format. Media conformance is not covered, though of course in order to exercise the file format features, media will be stored.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 14496-12, Information technology — Coding of audio-visual objects — Part 12: ISO base media file format

ISO/IEC 14496-14, Information technology — Coding of audio-visual objects — Part 14: MP4 file format

ISO/IEC 14496-15, Information technology — Coding of audio-visual objects — Part 15: Carriage of network abstraction layer (NAL) unit structured video in the ISO base media file format

ISO/IEC 14496-30, Information technology — Coding of audio-visual objects — Part 30: Timed text and other visual overlays in ISO base media file format

ISO/IEC 23008-12, Information technology — High efficiency coding and media delivery in heterogeneous environments — Part 12: Image File Format