This is a preview - click here to buy the full publication

INTERNATIONAL STANDARD

ISO/IEC 23001-14

First edition 2019-01

Information technology — MPEG systems technologies —

Part 14: **Partial file format**

Technologies de l'information — Technologies des systèmes MPEG — Partie 14: Format de fichier partiel



ISO/IEC 23001-14:2019(E)



COPYRIGHT PROTECTED DOCUMENT

© ISO/IEC 2019

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 Fax: +41 22 749 09 47 Email: copyright@iso.org Website: www.iso.org

Published in Switzerland

ForewordIntroduction									
					1	Scon	e		1
					2	-		eferences	
3									
	Terms, definitions, symbols, abbreviated terms and conventions 3.1 Terms and definitions								
	3.1								
			viated terms	Z					
4	Partial file organization								
	4.1	Object structure							
	4.2	Design consideration							
		4.2.1	Features						
		4.2.2	Data layout						
		4.2.3	Box order						
		4.2.4	Mixed partial files						
		4.2.5	Processing model	5					
5	Box structures			5					
	5.1		l file general boxes						
		5.1.1	Partial file box						
		5.1.2	Partial file header box						
		5.1.3	Partial segment box						
		5.1.4	Partial segment header box						
		5.1.5	Partial data box						
		5.1.6	Partial segment location box						
		5.1.7	Partial top level entry point box						
	۲.2	5.1.8							
	5.2	5.2.1	l file ISO base media file helpers						
		5.2.1	Box file index box						
		5.2.3	Box index box						
		5.2.4	Data integrity box						
		5.2.5	Data integrity box						
		5.2.6	Front part box						
Ann	ex A (no) Partial file MIME type registration						
		-) I at that the Mind type registration						
מוס	uugrapi	1у		4 U					

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 on 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 23001 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.

Introduction

The partial file format is designed to contain files partially received over a lossy link (with unreceived or corrupted sections), for further processing such as playback or repair. The file structure is object-oriented; a file can be decomposed into constituent objects very simply, and the structure of the objects inferred directly from their type. Files conforming to this format may be exchanged without losing information on losses, allowing redistribution (local gateways) or further repair processes.

The partial file format may be used to document reception of files, regardless of their bitstream format. For generic cases, it provides ways for file readers to resynchronize their parsing in case of byte losses. For cases where the documented file derives from ISO/IEC 14496-12, the partial file format provides additional tools, such as an index of the source file structures and data integrity information.

Annex A of this document defines the associated MIME type for files conformant to this document.

This is a preview - click here to buy the full publication

Information technology — MPEG systems technologies —

Part 14:

Partial file format

1 Scope

This document specifies the partial file format, which is a generic format for describing file partially received over lossy communication channels. This format contains the correctly received data, missing block identification, and repair information such as location of the file or high-level original indexing information. This format can be used with any file formats, and provides additional helper tools for formats deriving from ISO/IEC 14496-12.

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

IETF RFC 5905, Network Time Protocol Version 4: Protocol and Algorithms Specification, Mills, D., et al, June 2010