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**Information technology — Coded  
representation of immersive media —  
Part 10:  
Carriage of visual volumetric video-  
based coding data**

*Technologies de l'information — Représentation codée de média  
immersifs —*

*Partie 10: Transport de données de codage basé sur la vidéo  
volumétrique*





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# Contents

Page

<b>Foreword</b> .....	<b>vi</b>
<b>Introduction</b> .....	<b>vii</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Abbreviated terms</b> .....	<b>2</b>
<b>5 Overview</b> .....	<b>3</b>
5.1 General.....	3
5.2 Overall architecture for carriage of V3C data.....	3
5.3 Summary of referenceable code points.....	4
5.3.1 Brands.....	4
5.3.2 Uniform resource names.....	4
5.3.3 Restricted scheme types.....	4
5.3.4 Sample entry types.....	4
5.3.5 Box types.....	5
5.3.6 Track reference types.....	6
5.3.7 Track grouping types.....	6
5.3.8 Entity grouping types.....	6
5.3.9 Sample grouping types.....	7
<b>6 Volumetric media</b> .....	<b>7</b>
6.1 General.....	7
6.2 Volumetric visual media.....	7
6.3 Volumetric visual media header.....	7
6.3.1 Definition.....	7
6.3.2 Syntax.....	7
6.3.3 Semantics.....	7
6.4 Volumetric visual sample entry.....	7
6.4.1 Definition.....	7
6.4.2 Syntax.....	7
6.4.3 Semantics.....	8
6.5 Volumetric visual sample group entry.....	8
6.6 Volumetric visual samples.....	8
<b>7 Carriage of visual volumetric video-based coding data</b> .....	<b>8</b>
7.1 General.....	8
7.2 Common boxes and data structures.....	8
7.2.1 V3C decoder configuration record.....	8
7.2.2 V3C decoder configuration box.....	10
7.2.3 V3C unit header box.....	10
7.2.4 V3C atlas parameter set sample group.....	10
7.2.5 Object switch alternatives box.....	11
7.3 Single track encapsulation of V3C data.....	11
7.3.1 General.....	11
7.3.2 V3C bitstream sample entry.....	12
7.3.3 V3C bitstream track sample format.....	12
7.4 Multi-track encapsulation of V3C data.....	13
7.4.1 General.....	13
7.4.2 V3C atlas sample entry.....	14
7.4.3 V3C atlas tile sample entry.....	16
7.4.4 V3C atlas sample format.....	17
7.4.5 V3C video component track.....	18
7.4.6 Track references.....	19
7.4.7 Track alternatives and track grouping.....	19

	7.4.8	Playout groups.....	20
	7.4.9	Summary.....	20
<b>8</b>		<b>Carriage of non-timed visual volumetric video-based coding data.....</b>	<b>21</b>
	8.1	General.....	21
	8.2	V3C atlas item.....	22
	8.3	V3C atlas tile item.....	22
	8.4	V3C component item.....	22
	8.5	V3C-related item properties.....	23
	8.5.1	General.....	23
	8.5.2	V3C configuration item property.....	23
	8.5.3	V3C unit header item property.....	23
	8.5.4	V3C atlas tile configuration item property.....	24
	8.5.5	Playout groups.....	24
<b>9</b>		<b>Partial access of volumetric visual data.....</b>	<b>25</b>
	9.1	General.....	25
	9.2	Common data structures.....	25
	9.2.1	3D vector.....	25
	9.2.2	Spatial region bounding box.....	25
	9.2.3	Tile mapping.....	26
	9.2.4	Object collection.....	27
	9.3	Spatial region information structure.....	29
	9.3.1	Definition.....	29
	9.3.2	Syntax.....	29
	9.3.3	Semantics.....	29
	9.4	V3C tile video component track grouping.....	29
	9.4.1	Definition.....	29
	9.4.2	Syntax.....	30
	9.4.3	Semantics.....	30
	9.5	Volumetric media bounding box.....	30
	9.5.1	Definition.....	30
	9.5.2	Syntax.....	31
	9.6	Static spatial region collection box.....	31
	9.6.1	Definition.....	31
	9.6.2	Syntax.....	31
	9.6.3	Semantics.....	31
	9.7	Dynamic spatial region information.....	31
	9.7.1	General.....	31
	9.7.2	Sample entry.....	32
	9.7.3	Sample format.....	32
	9.7.4	Sync samples.....	32
	9.8	Storage of atlas tiles using NALUMapEntry.....	32
<b>10</b>		<b>Viewport information.....</b>	<b>33</b>
	10.1	General.....	33
	10.2	Structures.....	33
	10.2.1	Extrinsic camera information.....	33
	10.2.2	Intrinsic camera information.....	34
	10.2.3	Viewport information.....	35
	10.3	Viewport information timed-metadata track.....	35
	10.3.1	General.....	35
	10.3.2	Viewport information sample entry.....	35
	10.3.3	Viewport information sample format.....	37
<b>11</b>		<b>Encapsulation and signalling in MPEG-DASH.....</b>	<b>38</b>
	11.1	Single track mode.....	38
	11.2	Multi-track mode.....	38
	11.2.1	General.....	38
	11.2.2	V3C preselections.....	39

11.2.3	V3C atlas tile preselections.....	40
11.3	DASH MPD descriptors for V3C content.....	40
11.3.1	XML namespace and schema.....	40
11.3.2	V3C video component descriptor.....	40
11.3.3	V3C descriptor.....	43
11.4	Supporting multiple versions of a V3C media.....	44
11.5	Switching codecs for V3C video components.....	44
11.6	Signalling spatial regions for partial access.....	44
11.6.1	Static spatial regions.....	44
11.6.2	Dynamic spatial regions.....	47
11.7	Signalling recommended viewports.....	47
11.7.1	Static viewports.....	47
11.7.2	Dynamic viewports.....	49
<b>12</b>	<b>Encapsulation and signalling MMT.....</b>	<b>49</b>
12.1	Introduction.....	49
12.2	MMT signalling descriptors for V3C content.....	50
12.2.1	Asset reference descriptor.....	50
12.2.2	V3C Asset descriptor.....	51
12.3	MMT signalling messages for V3C Content.....	52
12.3.1	General.....	52
12.3.2	V3C Asset Group message.....	52
12.3.3	V3C Selection message.....	54
12.3.4	V3C View Change Feedback message.....	55
	<b>Annex A (normative) File format toolsets and brands.....</b>	<b>58</b>
	<b>Annex B (normative) V3C DASH schema.....</b>	<b>59</b>
	<b>Annex C (normative) MIME types and sub-parameters.....</b>	<b>61</b>
	<b>Annex D (informative) DASH MPD examples.....</b>	<b>62</b>
	<b>Annex E (informative) Partial access utilizing V3C volumetric annotation SEI message family.....</b>	<b>77</b>
	<b>Annex F (informative) Partial access using volumetric information timed-metadata tracks.....</b>	<b>80</b>
	<b>Annex G (informative) Partial access for overlapping spatial subdivisions.....</b>	<b>82</b>
	<b>Annex H (informative) Examples of using alternate groups.....</b>	<b>83</b>
	<b>Bibliography.....</b>	<b>85</b>

## Foreword

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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 23090 series can be found on the ISO and IEC websites.

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](http://www.iso.org/members.html) and [www.iec.ch/national-committees](http://www.iec.ch/national-committees).

## Introduction

This document addresses the storage of visual volumetric video-based coding data in files based on ISO/IEC 14496-12, reusing existing tools for storage of video-coded components. Another important aspect considered by this document is supporting flexible extraction of component streams at delivery or decoding time, or both.

The International Organization for Standardization (ISO) and International Electrotechnical Commission (IEC) draw attention to the fact that it is claimed that compliance with this document may involve the use of a patent.

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# Information technology — Coded representation of immersive media —

## Part 10: Carriage of visual volumetric video-based coding data

### 1 Scope

This document specifies carriage of coded media representations which comply with visual volumetric video-based coding and video-based point cloud compression (specified in ISO/IEC 23090-5).

### 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.

IEEE 754-2019, *IEEE Standard for Floating-Point Arithmetic*

IETF RFC 6381, *The 'Codecs' and 'Profiles' Parameters for "Bucket" Media Types*

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

ISO/IEC 23008-1:2017, *Information technology — High efficiency coding and media delivery in heterogeneous environments — Part 1: MPEG media transport (MMT)*

ISO/IEC 23009-1:2019, *Information technology — Dynamic adaptive streaming over HTTP (DASH) — Part 1: Media presentation description and segment formats*

ISO/IEC 23090-5:2021, *Information technology — Coded representation of immersive media — Part 5: Visual Volumetric Video-based Coding (V3C) and Video-based Point Cloud Compression (V-PCC)*

W3C Recommendation, *XML schema part 1: Structures*

W3C Recommendation, *XML schema part 2: Datatypes*