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Interested committees:

Title: Draft BS ISO/IEC 23000-19/Amd 2 BS ISO/IEC 23000-19:2024/Amd 2 Information technology - Multimedia application format (MPEG-A). Part 19: Common media application format (CMAF) for segmented media. Amendment 2: Additional structural CMAF brand profile.

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

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UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



DRAFT Amendment

ISO/IEC 23000-19:2024/ DAM 2

Information technology — Multimedia application format (MPEG-A) —

Part 19: Common media application format (CMAF) for segmented media

AMENDMENT 2: Additional structural CMAF brand profile

ICS: 35.040.40

ISO/IEC JTC 1/SC 29

Secretariat: JISC

Voting begins on:
2025-07-04

Voting terminates on:
2025-09-26

This document is circulated as received from the committee secretariat.

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Foreword

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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 ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2. www.iso.org/directives

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The committee responsible for this document is ISO/IEC JTC1 SC29.

The main changes compared to the previous edition are as follows:

- definition of a set of MV-HEVC media profiles
- carriage of metadata tracks in a single CMAF track
- Definition of the cmf1 brand

Information technology — Multimedia application format (MPEG-A) —

Part 19:

Common media application format (CMAF) for segmented media

AMENDMENT 2: Additional structural CMAF brand profile

1 Clause 3, Terms and definitions

Add the following note after the definition of the CMAF track (3.2.1)

Note In addition to a Primary Media Track (3.2.14) the CMAF track can also contain Supplementary Metadata Tracks (3.2.15).

Add 2 new definitions to Clause 3.2

3.2.14

Primary Media Track

The primary media track refers to the main content track that carries the audio, video, or audiovisual data. This track is essential for the core playback experience and is always present in the `MovieBox`.

3.2.15

Supplementary Metadata Track

A Supplementary Metadata Track refers to a metadata track that is directly related to the media data of the Primary Media Track (3.2.14) within the same CMAF track (3.2.1). This track uses a handler type equal to `'meta'` and provides metadata that enhances or describes the associated primary media content.

Add 3 new definitions to Clause 3.3

3.3.19

Texture picture

A picture that carries pixel data corresponding to information that can be rendered on a screen or some other device, either directly or indirectly after the consideration of additional information, such as alpha, depth, display, colour format, colour processing, and/or other information that can be associated with such pixel data.

3.3.20

Alpha picture

A picture that contains a video signal representing information indicating the opacity level of each pixel in an associated foreground picture and how that associated picture should be blended with other pictures for purposes of alpha blending.

2 Clause 4, Abbreviated terms

Add the following abbreviated terms:

MSE	media source extension
MV	multi-view
NAL	network abstraction layer

3 Clause 7, CMAF track format

3.1 Clause 7.1, Overview

Replace the following text:

The CMAF track format is derived from the ISO base media file format in this clause and structural brands are specified. At this point, the 'cmfc' and the 'cmf2' CMAF structural brands are defined. The 'cmf2' brand further restricts the 'cmfc' brand.

Several CMAF media objects are derived from the CMAF track format.

with:

The CMAF track format is derived from the ISO base media file format in this clause and structural brands are specified. At this point, the 'cmfc', the 'cmf1', and the 'cmf2' CMAF structural brands are defined. The 'cmf2' brand further restricts the 'cmfc' brand. The 'cmf1' brand both extends and restricts the 'cmfc' brand.

Several CMAF media objects are derived from the CMAF track format.

3.2 Clause 7.2, CMAF brands

Replace Table 1 with:

Table 1 — CMAF brands

Brand	Location	Conformance requirements
cmfc	FileTypeBox and SegmentTypeBox	7.6
cmf2	FileTypeBox and SegmentTypeBox	7.7
cmf1	FileTypeBox and SegmentTypeBox	7.8
cmfs	SegmentTypeBox	7.3.3.1
cmf1	SegmentTypeBox	7.3.3.2
cmff	SegmentTypeBox	7.3.2.3
cmfr	SegmentTypeBox	7.3.2.4

Replace Table 2 with:

Table 2 — Common media application format file extensions

Track type	File extension	Internet media type (MIME type)
Video	.cmfv	video/mp4
Audio	.cmfa	audio/mp4
Text (subtitle)	.cmft	application/mp4
Metadata	.cmfm	application/mp4

3.3 Clause 7.3, CMAF media objects

3.3.1 Clause 7.3.1, CMAF boxes

Update the following entry of Table 3:

	trak					1	ISO/IEC 14496-12		Container for each track
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with:

	trak					+	ISO/IEC 14496-12	CMAF 7.5.21	Container for each track
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