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AMENDMENT 1
2023-11

Information technology — Coded representation of immersive media —

Part 14: Scene description

AMENDMENT 1: Support for immersive media codecs in scene description

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

Partie 14: Description de scènes

AMENDEMENT 1: Support pour les codecs des médias immersifs dans la description de scènes

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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*.

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Part 14:
Scene description

AMENDMENT 1: Support for immersive media codecs in scene description

Normative references

Add the following references:

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

4.2

Replace Figure 1 by the following figure

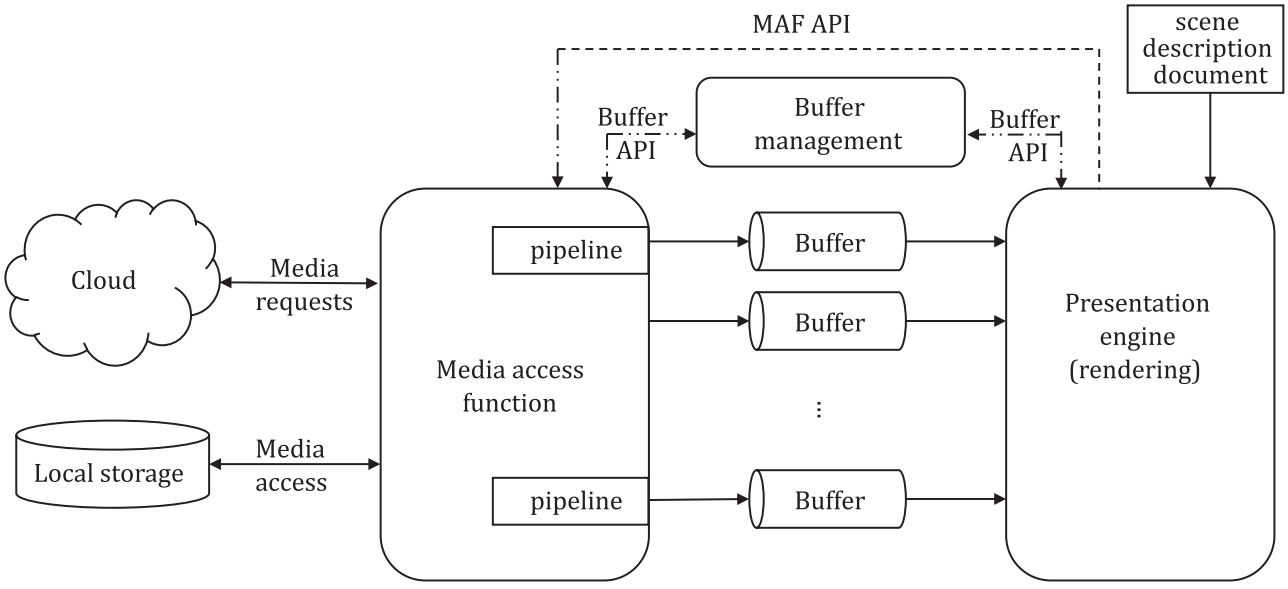


Figure 1 — Scene description reference architecture

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3.2

Add the following to the list of abbreviated terms in subclause 3.2:

MIV MPEG immersive video

ERP Equirectangular projection

PLR Point Local Reconstruction

EOM Enhanced Occupancy Mode

5.1.1

Add the following sentence after Figure 3

Additional extensions and buffer formats for the support of MPEG-specified immersive media formats in MPEG-I scene description are specified in Annex G.

5.3.1.2, Table 11

Change the Description of the format attribute as follows:

format	string	RGB	O	Indicates the format of the pixel data for this video texture. The allowed values are: RED, GREEN, BLUE, RG, RGB, RGBA, BGR, BGRA, DEPTH_COMPONENT. The semantics of these values are defined in Table 8.3 of OpenGL specification [2]. Additionally, YCbCr formats are supported. The semantics for the YCbCr formats are defined in Table 76 in Vulkan specification [Vulkan 1.3]. A sampler with the `MPEG_sampler_YCbCr` extension shall be linked to a YCbCr texture. The number of components shall match the type indicated by the referenced accessor. Normalization of the pixel data shall be indicated by the normalized attribute of the accessor.

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