**INTERNATIONAL ORGANIZATION FOR STANDARDIZATION**

**ORGANISATION INTERNATIONALE DE NORMALISATION**

**ISO/IEC JTC 1/SC 29/WG 03 MPEG SYSTEMS**

**ISO/IEC JTC 1/SC 29/WG 03 N1368**

**November 2024, Kemer, Turkey**

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| **Title** | **Technologies under consideration for ISO/IEC 23090-14 Scene Description** |
| **Source** | **WG 03, MPEG Systems** |
| **Status** | **Approved** |
| **Serial Number** | **24431** |

More detailed TuC is provided in the attached PDF. The PDF is created based on the project <http://mpegx.int-evry.fr/software/kondrad/sd-tuc>

The source of TuC are:

# Extensions

**= Support of Spatial Computing in SD\***

Source https://git.mpeg.expert/MPEG/Systems/SceneDescription/MPEG-Contributions/-/issues/762[m70188]

# Codec Support

**= Dynamic mesh support in scene description**

V-DMC is considered for future Amendment

**= Support for multiple atlases for MIV applications (MPEG142)**

Source: https://mpeg.expert/software/MPEG/Systems/SceneDescription/MPEG-Contributions/-/issues/484[m62515]

# Interfaces

**= Supporting Multiple Viewers in the Media Access Function**

Source: http://mpegx.int-evry.fr/software/MPEG/Systems/SceneDescription/MPEG-Contributions/-/issues/242[m58510]

**= Generic API for Presentation Engine**

Source: https://git.mpeg.expert/MPEG/Systems/SceneDescription/MPEG-Contributions/-/issues/651[m66705]

# MPEG-I Audio in Scene Description

**= On spatial synchronization between graphs**

Source: https://git.mpeg.expert/MPEG/Systems/SceneDescription/MPEG-Contributions/-/issues/670[m67011]

**= Immersive audio support in Scene Description**

Source: https://git.mpeg.expert/MPEG/Systems/SceneDescription/MPEG-Contributions/-/issues/764[m70205]

# Interactivity framework

**= On event-based scene update**

Source: http://mpegx.int-evry.fr/software/MPEG/Systems/SceneDescription/MPEG-Contributions/-/issues/445[m61812]

# Collected problem statements and industry needs

**= On the support of real environment data**

Source: http://mpegx.int-evry.fr/software/MPEG/Systems/SceneDescription/MPEG-Contributions/-/issues/444[m61811]

**= The support of XR Spatial Computing of real environment**

Source: https://git.mpeg.expert/MPEG/Systems/SceneDescription/MPEG-Contributions/-/issues/683[m67595]

**= Use case proposal for Spatial Computing in SD**

Source https://git.mpeg.expert/MPEG/Systems/SceneDescription/MPEG-Contributions/-/issues/761[m70186]

# Avatar

**= Update of the Description of the MPEG reference avatar model Morgan**

Source: https://git.mpeg.expert/MPEG/Systems/SceneDescription/MPEG-Contributions/-/issues/751[m69577]