#### INTERNATIONAL ORGANISATION FOR STANDARDISATION ORGANISATION INTERNATIONALE DE NORMALISATION ISO/IEC JTC1/SC29/WG11 CODING OF MOVING PICTURES AND AUDIO

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SourceTelecom ParisTech, Canon Research Centre FranceStatusFor consideration during MPEG #116TitleOn Default Sample Group Descriptions in Movie FragmentsAuthorJean Le Feuvre, Cyril Concolato, Frederic Maze, Franck Denoual

### **1** Introduction

While implementing default sample groups in the context of MPEG-DASH, we have encountered an unclear area in ISO/IEC 14496-12 on sample group descriptions. This contribution exposes the issue and proposes a solution.

## 2 Problem statement

A sample group description may use in version 2 or above the notion of "default" association, mapping all samples to the sample group description entry indicated by default sample description index for a given grouping type in the sqpd box. While this works fine in non-fragmented files and in most fragmented files where the sample group description never changes, it may happen that a sample group description box of the same grouping\_type value is declared in track fragment with а default\_sample\_description\_index different from the one declared in the sample table. The specification does not indicate how the « merged » sqpd behaves as far as default entry is concerned, and this should be solved.

# **3** Proposal

We propose to add in 8.9.4

"When a sample group description "A" using a default\_sample\_description\_index is present in a track fragment, that default\_sample\_description\_index shall indicate the 1-based index of a sample group description entry of the same grouping\_type declared in the sample table, or the 0x10001-based index of the entry of that sample group description "A". For any track fragment, the default sample description entry for a given grouping\_type is the one indicated by the sample group description box of the same grouping\_type declared in that track fragment, if any; otherwise by the sample group description box of the same grouping\_type declared in the sample table of the track, if any; otherwise, no default entry is used for that grouping\_type."

# 4 Recommendation

We recommend to add the proposal in a COR on 14496-12.