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Title **Default Sample Group Descriptions in ISOBMFF**
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1 Introduction

During the 104th MPEG meeting, we presented contribution m29231 in which we described a simple mechanism for signaling default sample groups, for cases where all samples in a track or in a track fragment share the same sample description group. As identified in m29231, we believe such a feature can be useful for sample descriptions such as “roll” in case of GDR groups, or other sample group description types.

We therefore suggest extending the syntax of the SampleGroupDescriptionBox in ISO/IEC 14496-12.

2 Proposed Text

In 8.9.3.2, replace

```
extends FullBox('sgpd', version, 0){
```

with

```
extends FullBox('sgpd', version, flags){
```

In 8.9.3.3, add the following:

“The following flags are defined for sgpd:

0x000001 `sample-group-is-default`: indicates that all samples in this track or in the current fragment are assigned to this group; consequently, all entries defined in this box apply to all samples in the track or traf.

If a default sgpd box is defined in a traf for a track with a default sgpd box with the same `grouping_type`, only the sgpd box defined in the traf shall be considered. When changing the size of movie fragments, or removing them, it may happen that default association no longer applies, in which case regular SampleGroupDescription boxes along with SampleToGroup boxes should be created to reflect the new association.”

3 Conclusion

We recommend the adoption of the proposed tool in the ISO Base Media File Format.