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**Title**     **Inputs to 14496-12:2012 PDAM3**  
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## **1 Introduction**

Several enhancements have been proposed for DAM3 of the file format, regarding default sample grouping and SubSampleInformation. This contribution brings bug fixing and clarifications to the text.

## **2 Default Sample Grouping**

### **2.1 Syntax fixes**

The proposed syntax for the new version of SampleGroupBox breaks usage of default sample groups with version 1 features (entry description length). The new syntax indicates:

```
if (version==1) { unsigned int(32) default_length; }
```

It should be replaced with:

```
if (version>=1) { unsigned int(32) default_length; }
```

Similarly, it indicates

```
if (version==1) {  
    if (default_length==0) {  
        unsigned int(32) description_length;  
    }  
}
```

This should be replaced with:

```
if (version>=1) {  
    if (default_length==0) {  
        unsigned int(32) description_length;  
    }  
}
```

}

## **2.2 Clarification on grouping\_type\_parameter**

The specification of `SampleToGroupBox` currently says :

“At most one occurrence of this box with the same value for `grouping_type` (and, if used, `grouping_type_parameter`) shall exist for a track. »

It could happen that a version 1 of this box is used with different grouping type parameters, but without associated semantics for the parameter, as is currently the case with most sample group descriptions (only MVC assigns a semantic to `grouping_type_parameter`). Such a file could be correct according to these rules but not understandable by a conformant parser (i.e., what does it mean to see two ‘roll’ `SampleToGroup` with different `grouping_type_parameter`?

We believe there should be an explicit rule-out of `grouping_type_parameter` for all sample groups, and suggest adding the following semantics to the `grouping_type_parameter`:

“If no `grouping_type_parameter` semantics is assigned for a given sample group description type, the grouping type parameter shall not be used”.

## **3 SubSampleInformation Clarification**

The new syntax of the box allows for the use of flags, and may now allow one or several of these boxes in `stbl` or `traf`. As explained in section 2, this may result in a wrong usage of the tool for existing coding systems, and we believe this shall be explicitly forbidden. We suggest replacing

“The semantics of `flags`, if any, shall be supplied for a given coding system.”

By

“The semantics of `flags`, if any, shall be supplied for a given coding system. If no semantics are assigned to flags for `SubSampleInformation` in a given coding system, flags shall not be used.”

## **4 Conclusion**

We suggest adding the proposed fixes to the current amendment.