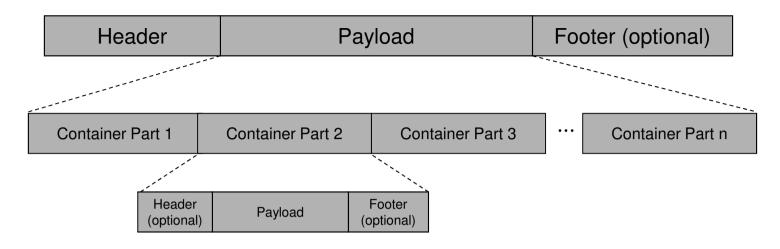
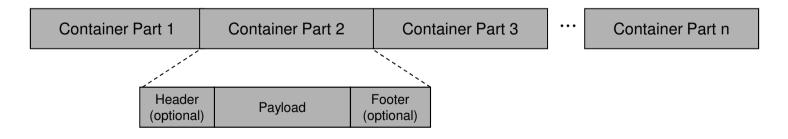
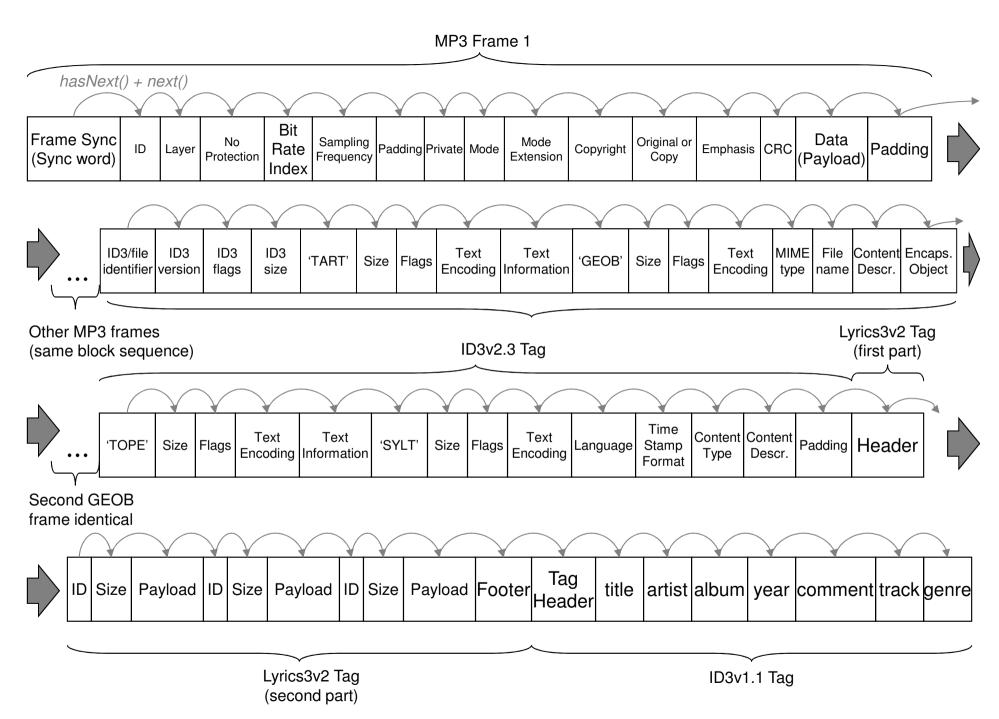
Parent Container



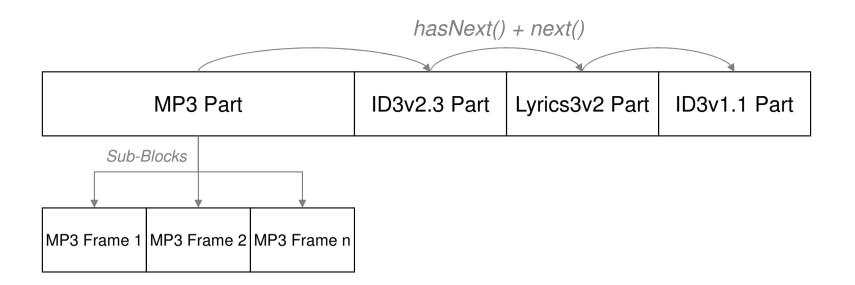
Top-Level Container Parts

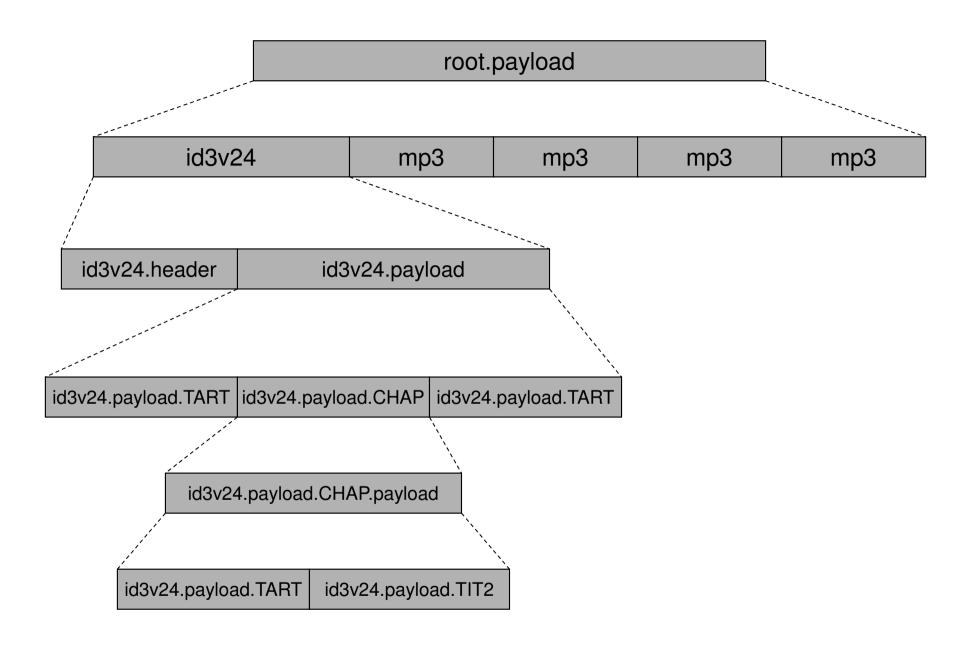


III_2_TypicalBlockStructure.pdf ##SIZE=[85;80]##

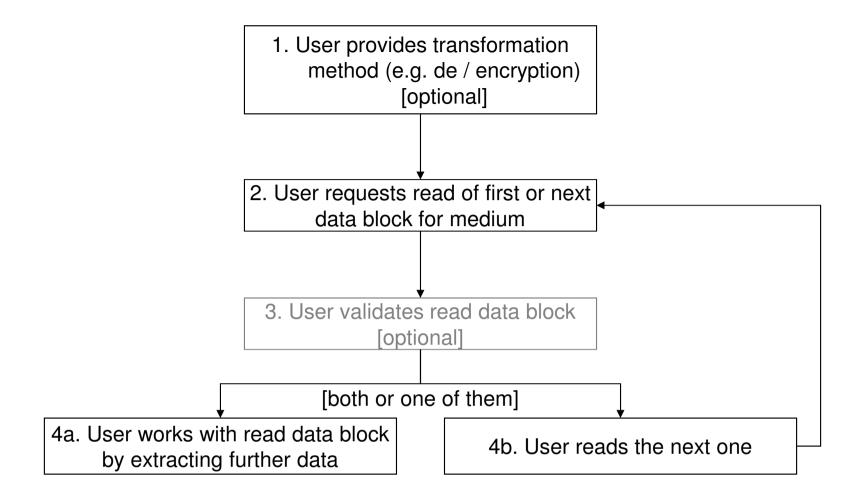


III_2_FlatHierarchy.pdf ##SIZE=[100;95]##

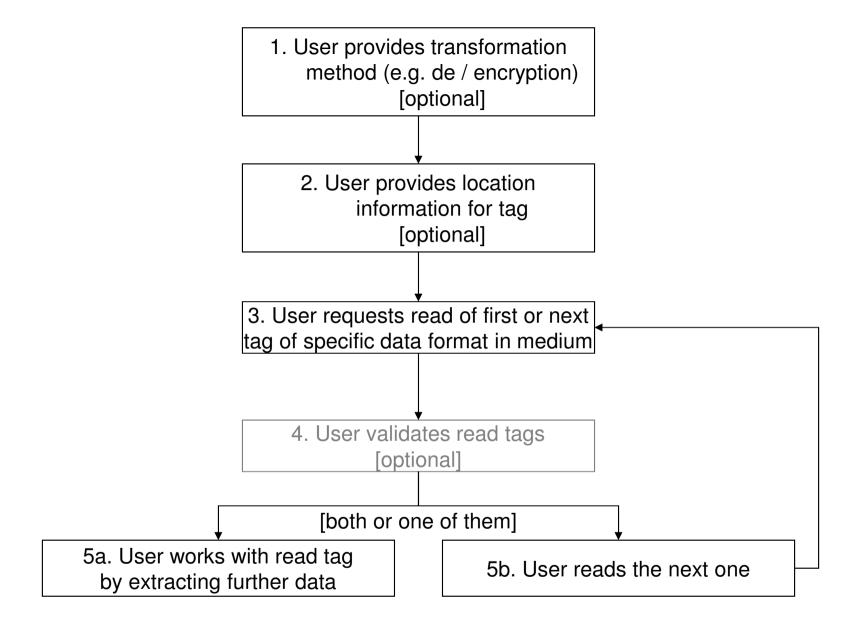


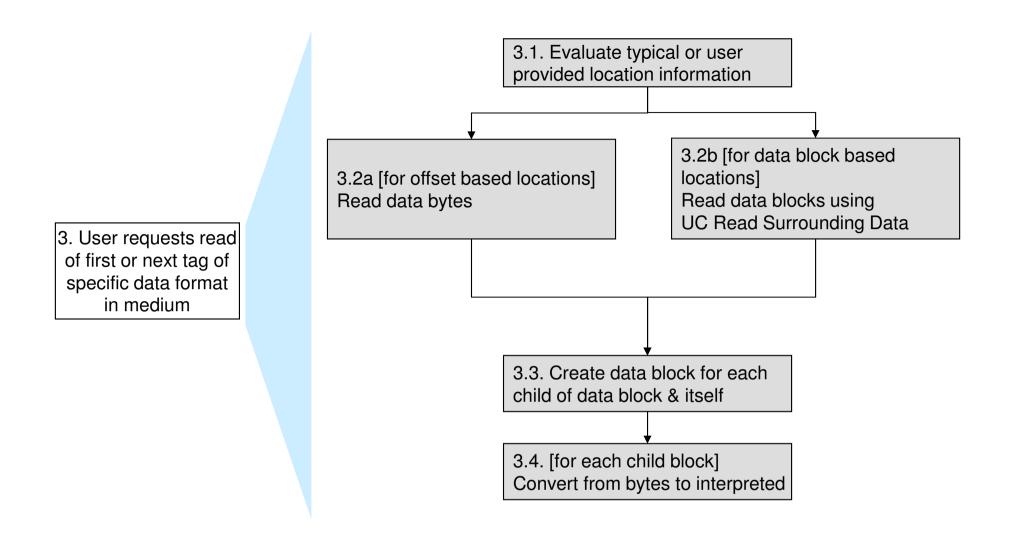


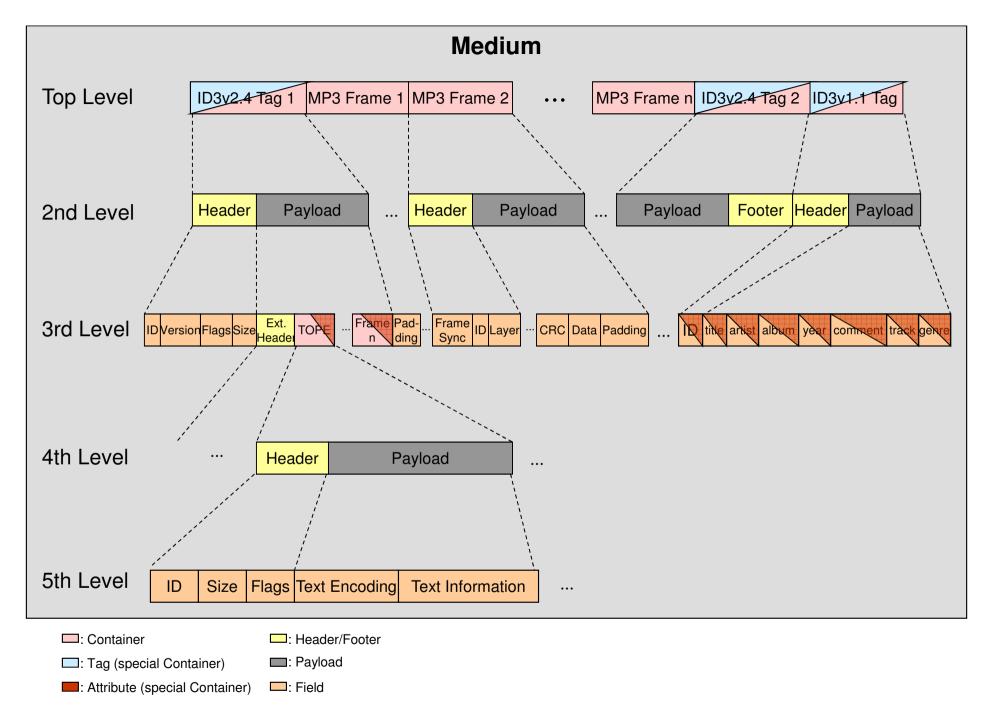
III_3_ExampleDataBlockHierarchy.pdf ##SIZE=[95;80]##



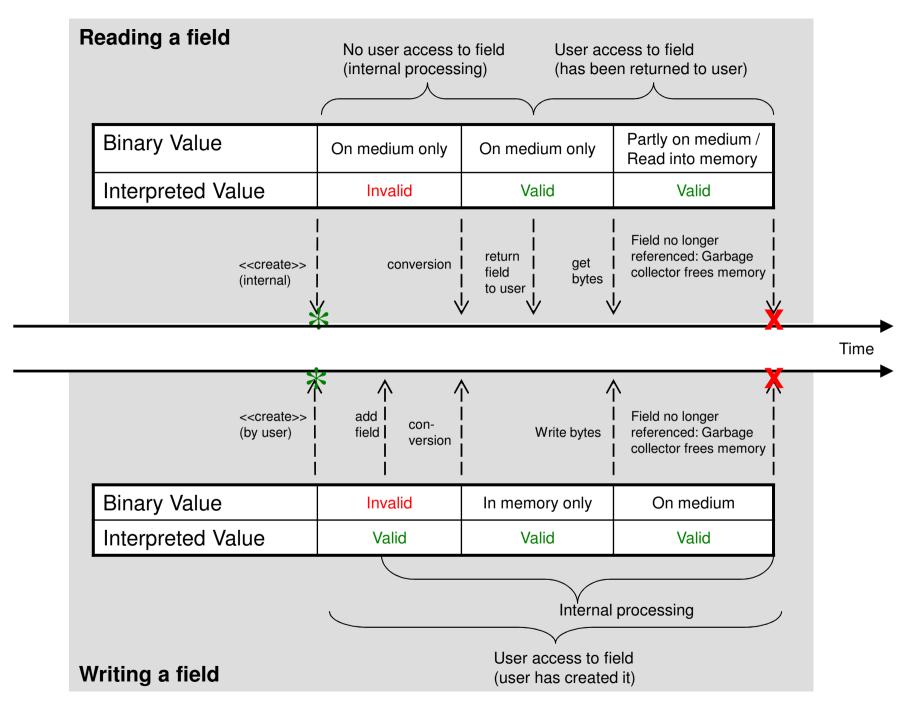
Known parent block / data format No parent block / data format 2.1. Determine possible child 2.1. Identify Data Format blocks for parent 2.1.1. Determine child block order 2.1.1. Determine identification & candidates for block id order 2.1.2. [for each candidate child 2.1.2. [for each supp. data format] Get data format block block] Get block definition definitions 2. User requests read of first or next data block for medium 2.1.3. Read necessary bytes of 2.1.3. Read header bytes of first next child and match with block & compare with magic keys candidates 2.2. Create data block for each 2.2. Create data block for each child of data block & itself child of data block & itself 2.3. [for each child block] 2.3. [for each child block] Convert from bytes to interpreted Convert from bytes to interpreted



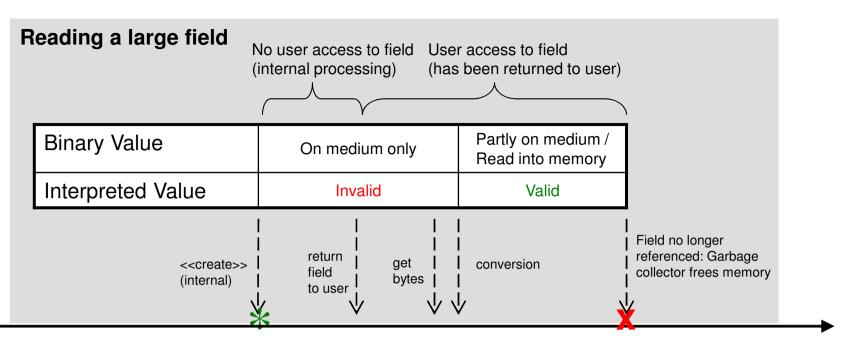




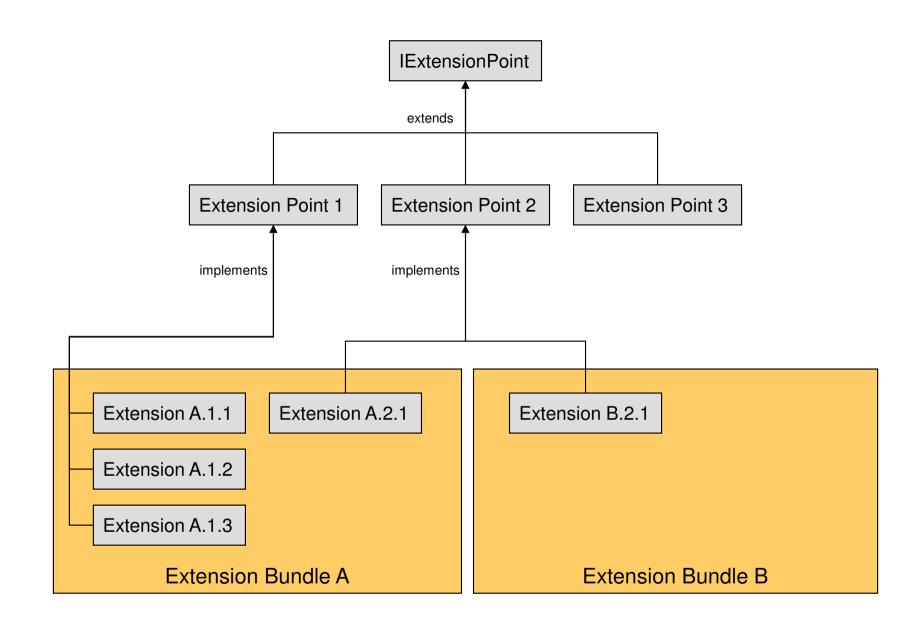
III_1_DataBlockStructure.pdf ##SIZE=[100;95]##



III_1_FieldLifeCycles.pdf ##SIZE=[95;100]##



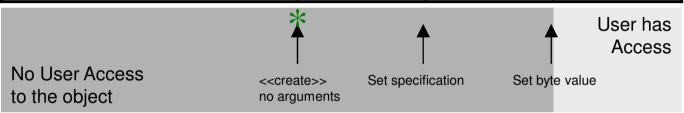
Time



Value States

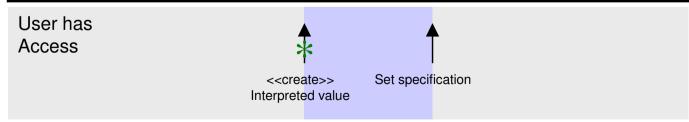
Read

Byte Representation	Invalid	Invalid	Valid
Interpreted Representation	Invalid	Invalid	Valid
Converter	Invalid	Valid	Valid

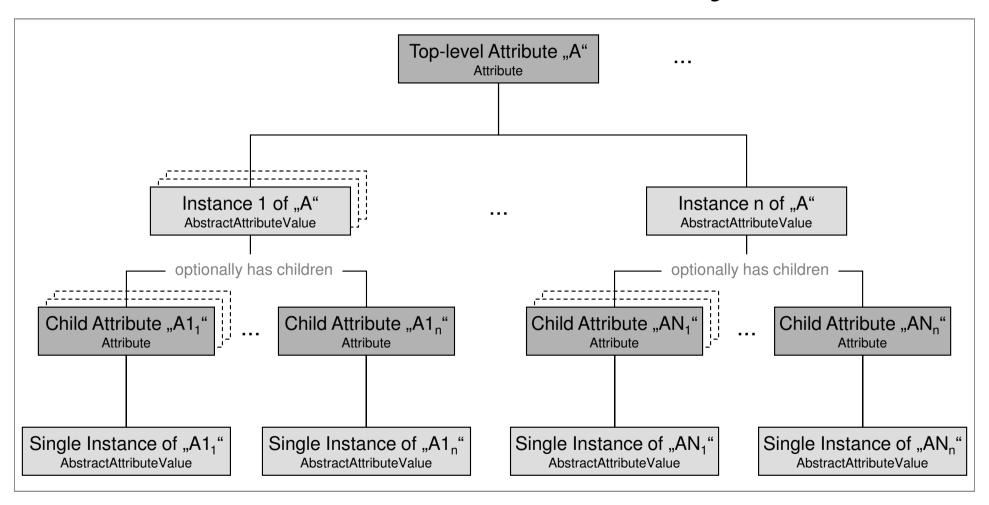


Write

Byte Representation	Invalid	Valid	Valid
Interpreted Representation	Valid	Valid	Valid
Converter	Invalid	Valid	Valid



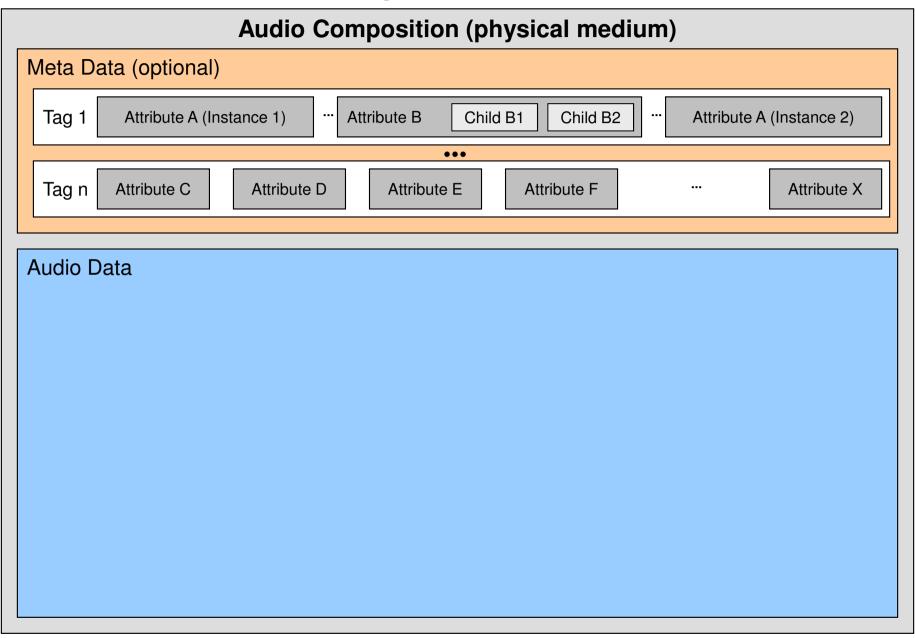
Attribute Hierarchy

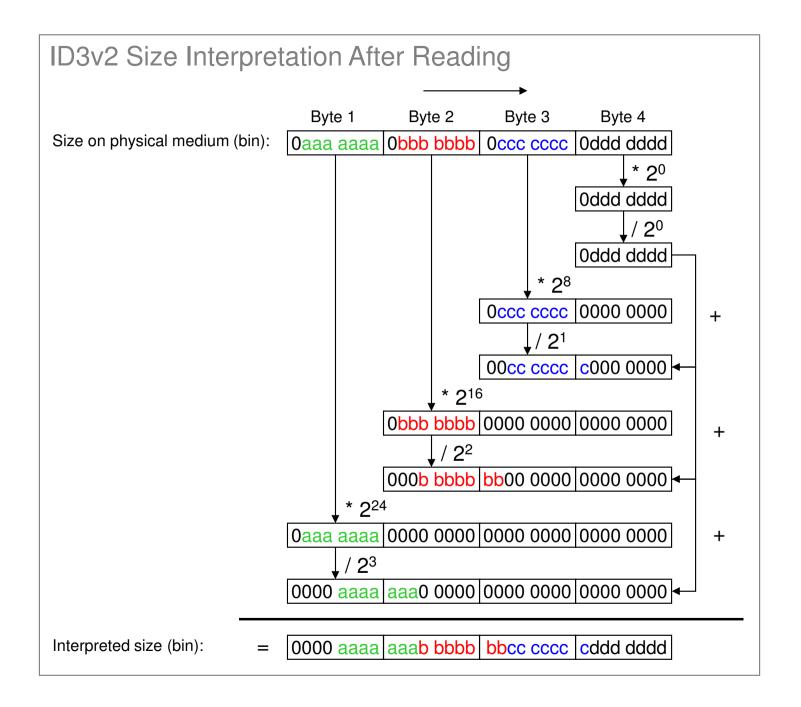


Library Structure

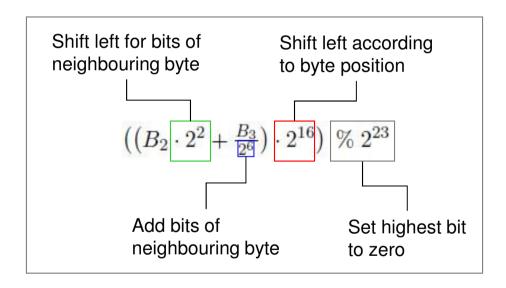
Basic concept Extensions contained in v0.5 bundle Library Core Library Core ID3v1 ID3v2.3 Tag Format Audio Format Audio Format MPEG III Tag Format Extension 1 Extension n Extension 1 Extension m Layer 2 ID3v2.4 ID3v1.1 Extensions Extensions

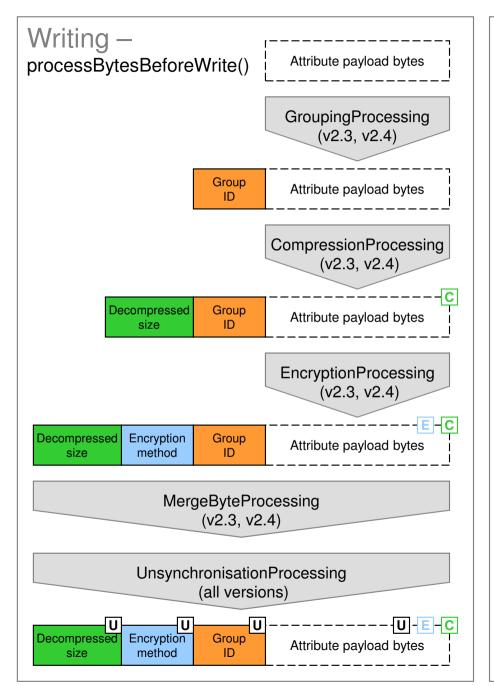
Audio Composition Structure

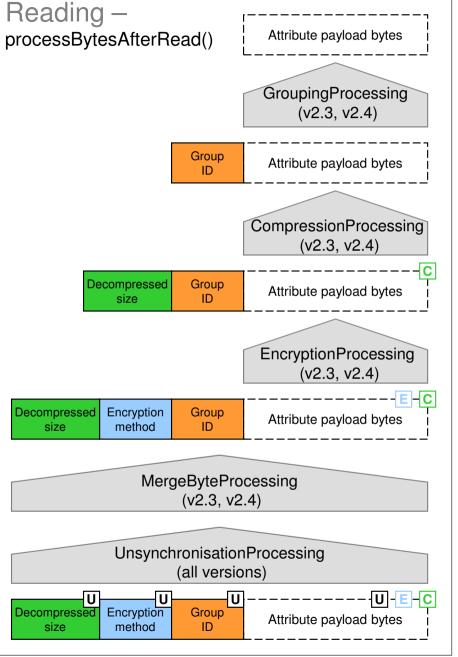




Formula for retrieving ID3v2 size to write







Example Flag Spec

Flag Bytes

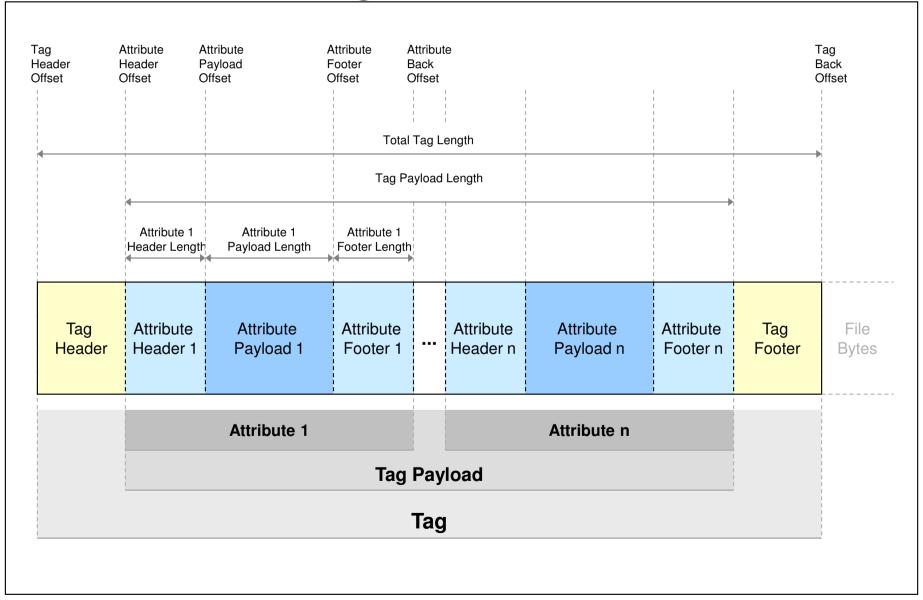
abc0 0000

Byte length = 1

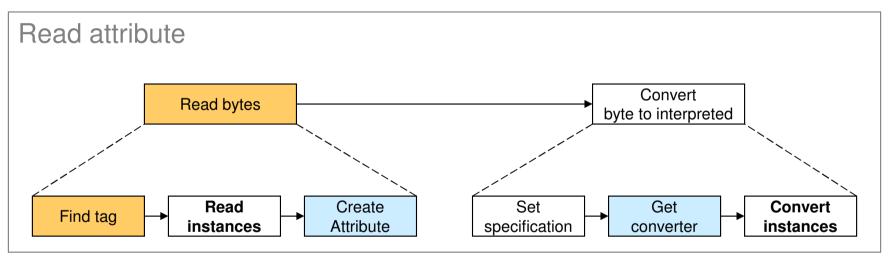
Byte order = Big Endian

Flag	Bit Address
a = Compression	(1, 1)
b = Footer available	(1, 2)
c = Experimental	(1, 3)

Tag Structure



Read attribute

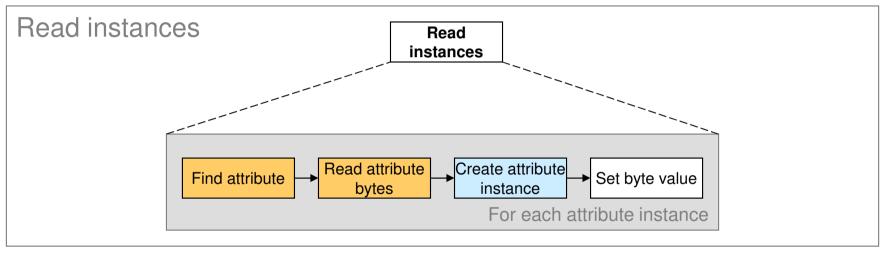


: Object creation / retrieval

: Access to physical medium

 $\ \ \ \ \$: Other action

Read instances

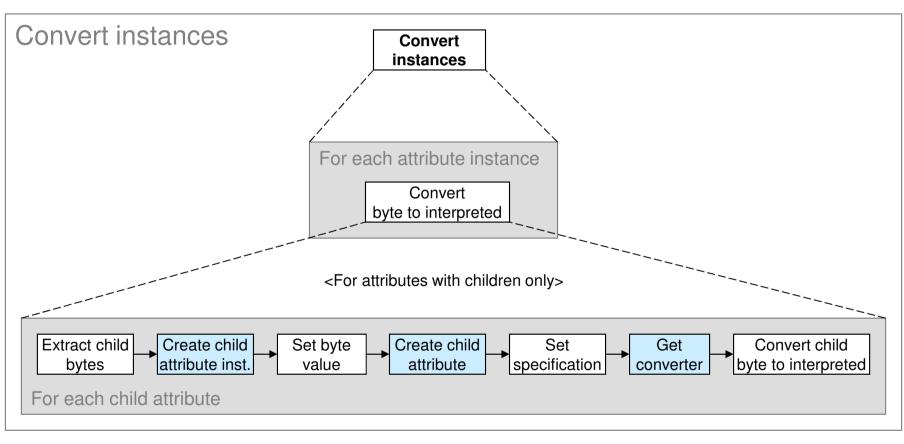


: Object creation / retrieval

: Access to physical medium

: Other action

Convert instances (Reading)

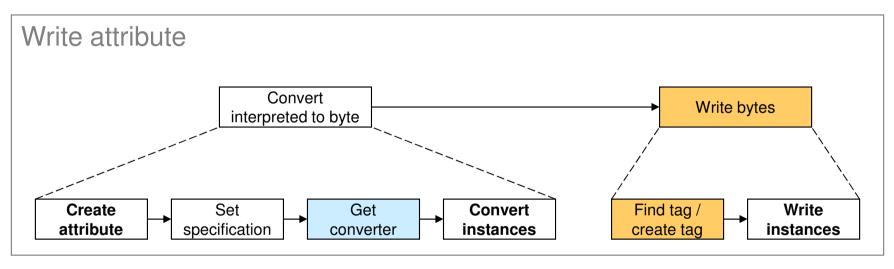


: Object creation / retrieval

: Access to physical medium

: Other action

Write attribute

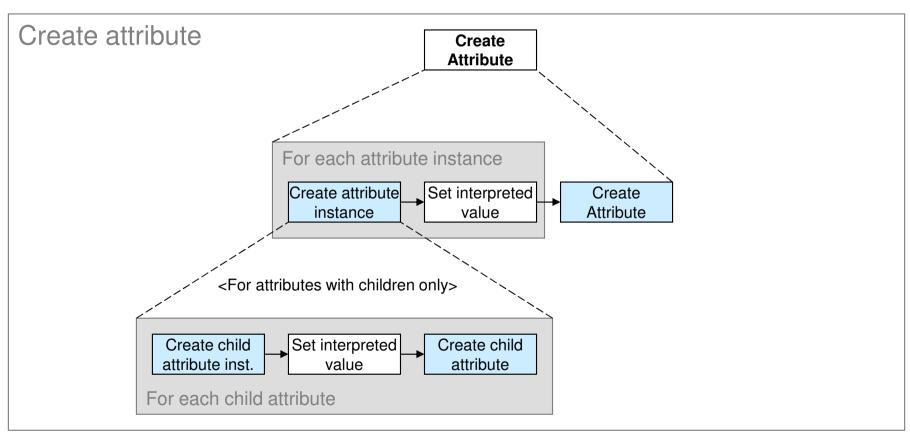


 $\hfill\Box$: Object creation / retrieval

: Access to physical medium

: Other action

Create attribute (Writing)

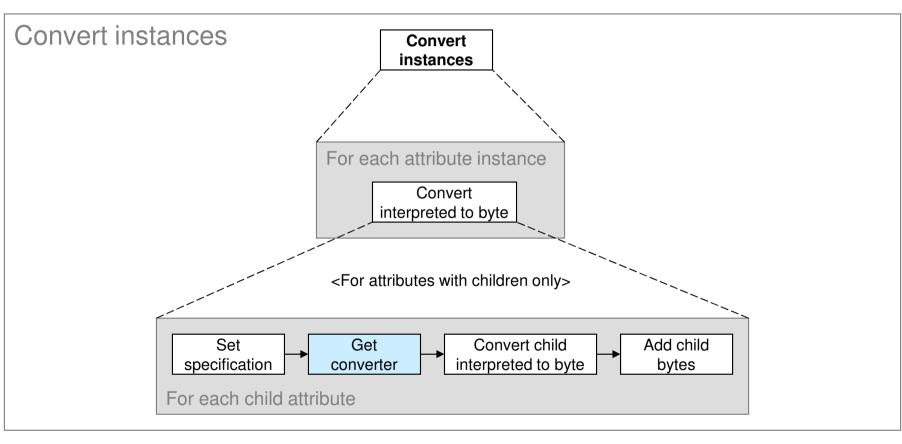


: Object creation / retrieval

: Access to physical medium

: Other action

Convert instances (Writing)

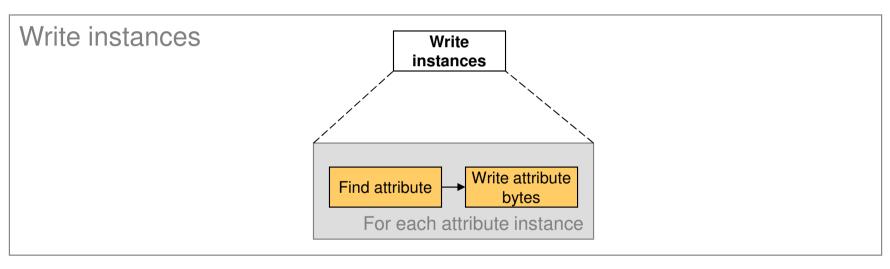


: Object creation / retrieval

: Access to physical medium

: Other action

Write instances



 $\hfill\Box$: Object creation / retrieval

: Access to physical medium

: Other action

Template

Hallo

Hallo