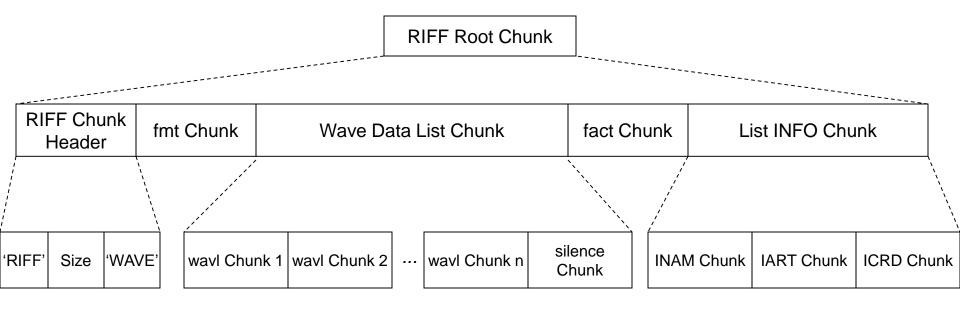
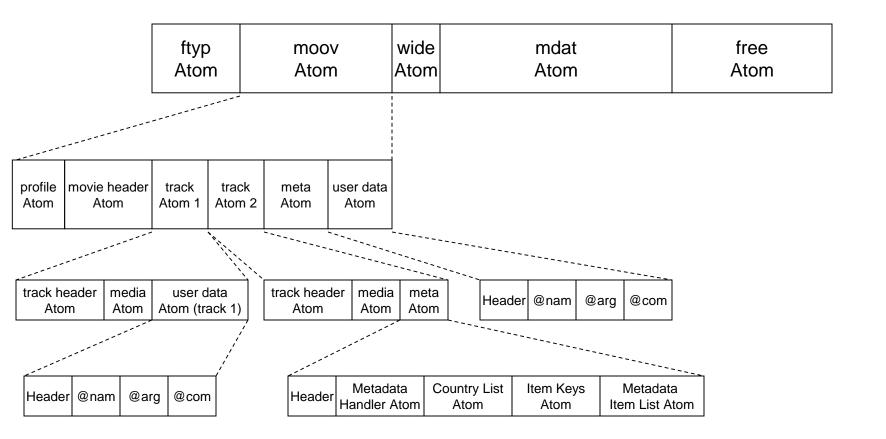
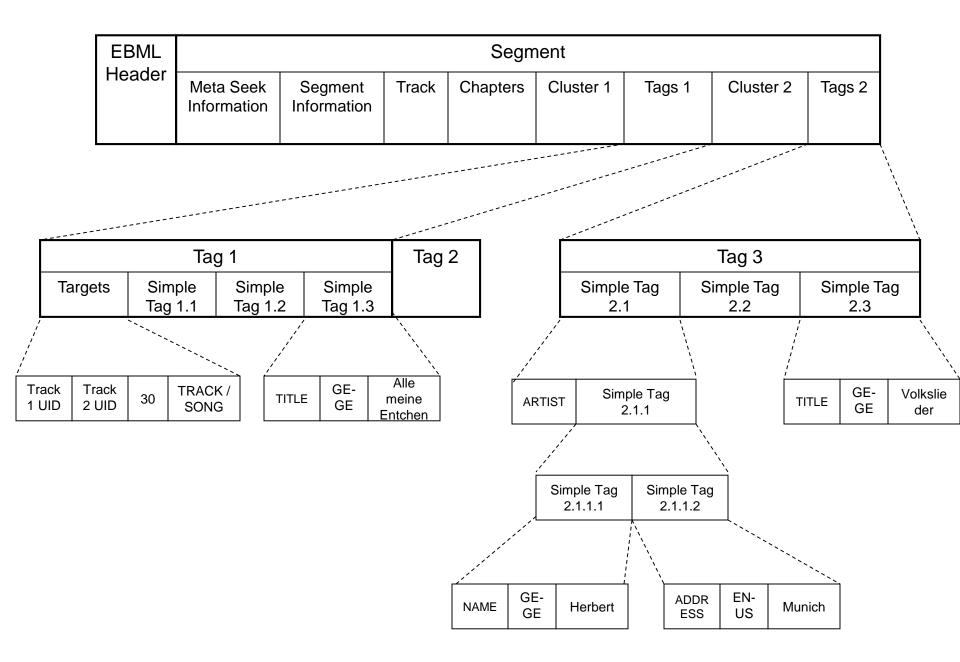


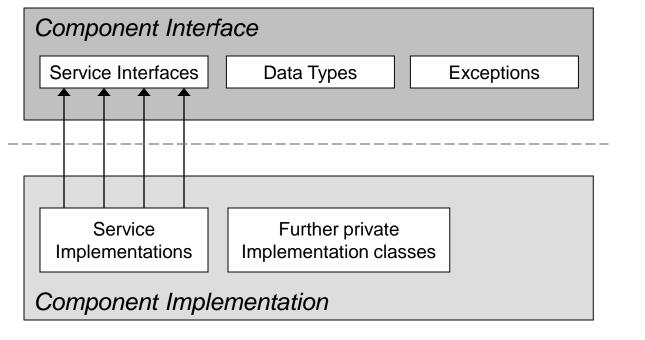
### I\_Example5.pdf ##SIZE=[100;75]##





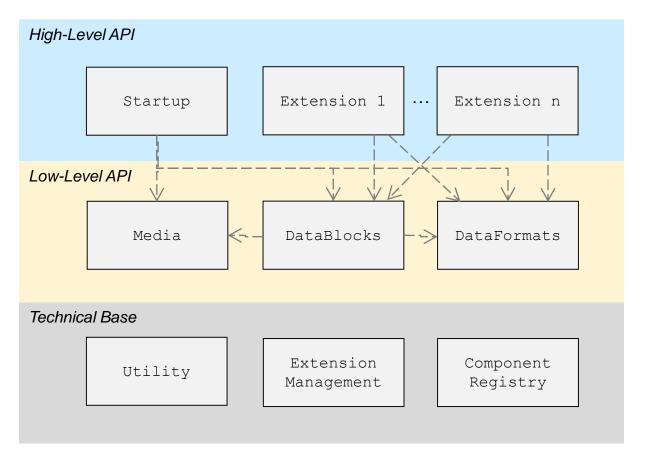


#### I\_Example8.pdf ##SIZE=[100;90]##

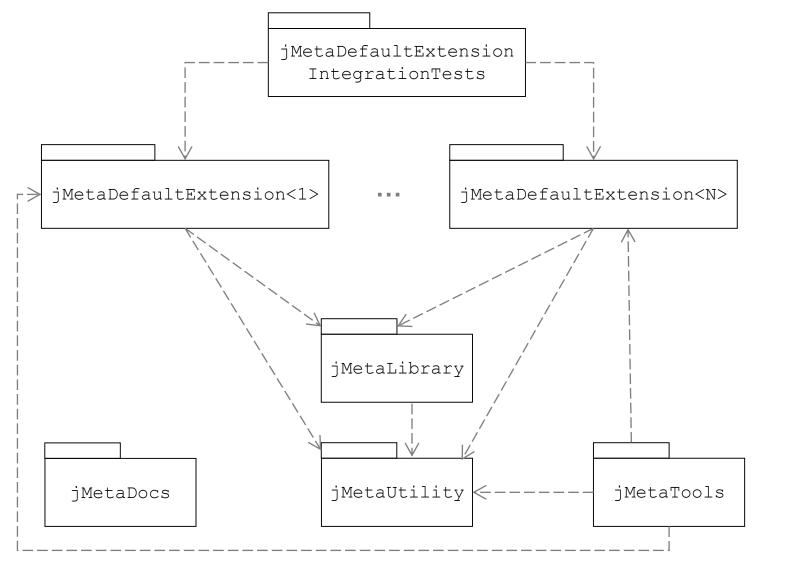


# **Application Layer** jMeta Java 9 Virtual Machine (JVM) **Operating System** Physical Storage Medium

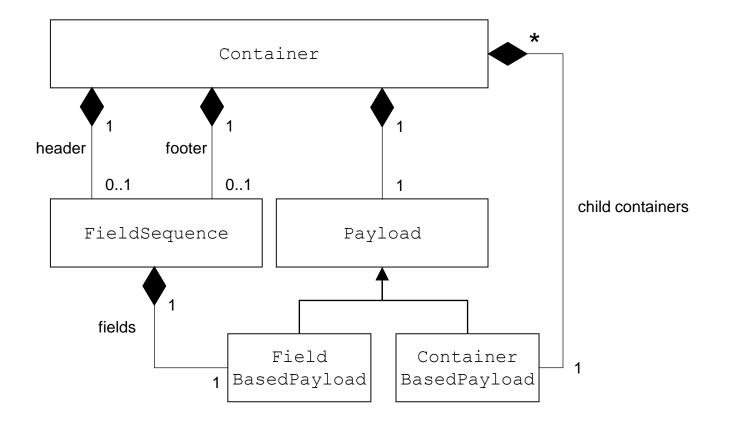
### II\_TechnicalInfrastructure.pdf ##SIZE=[75;70]##



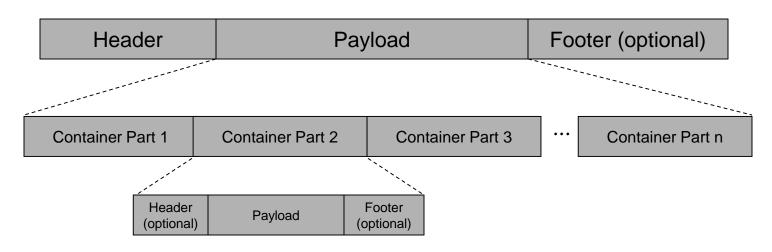
### II\_FunctionalArchitecture.pdf ##SIZE=[80;70]##



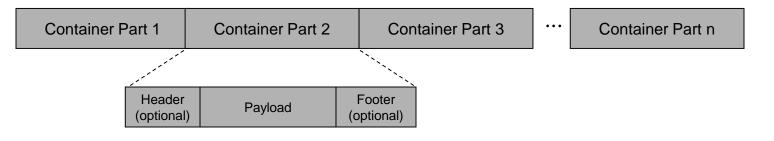
### II\_ProjectStructure.pdf ##SIZE=[80;70]##



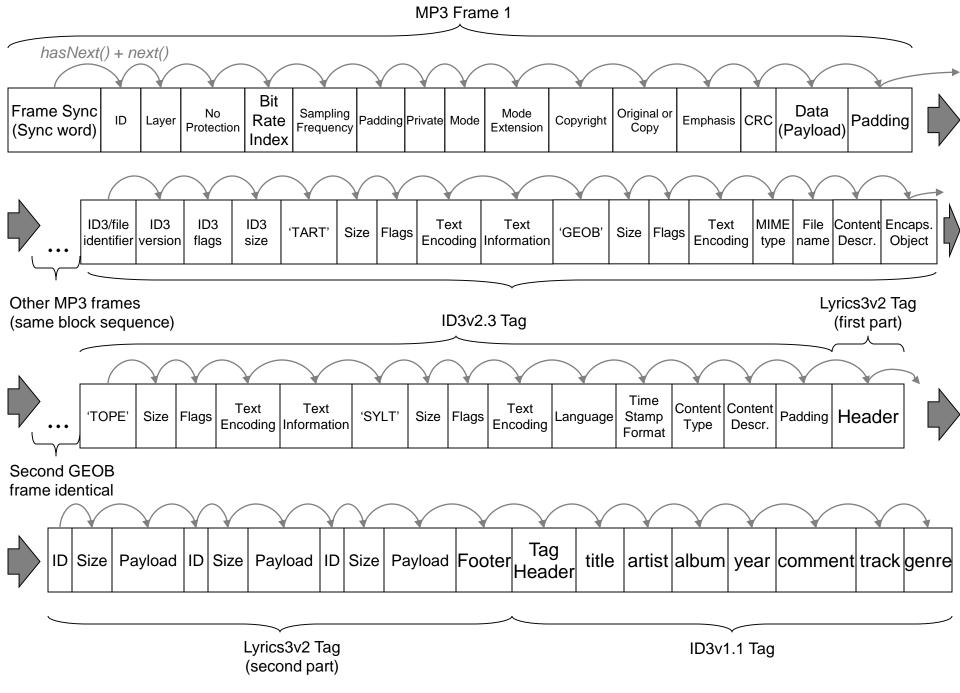
#### Parent Container



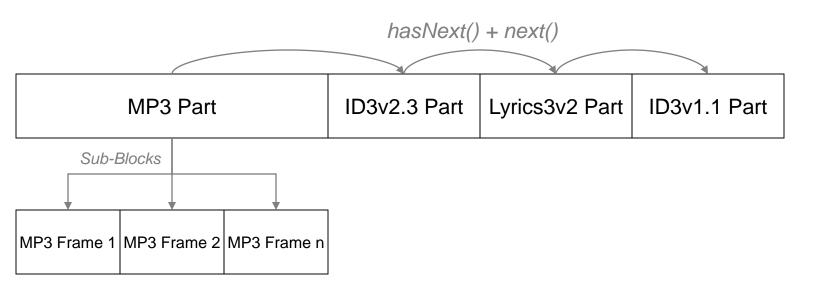
### Top-Level Container Parts



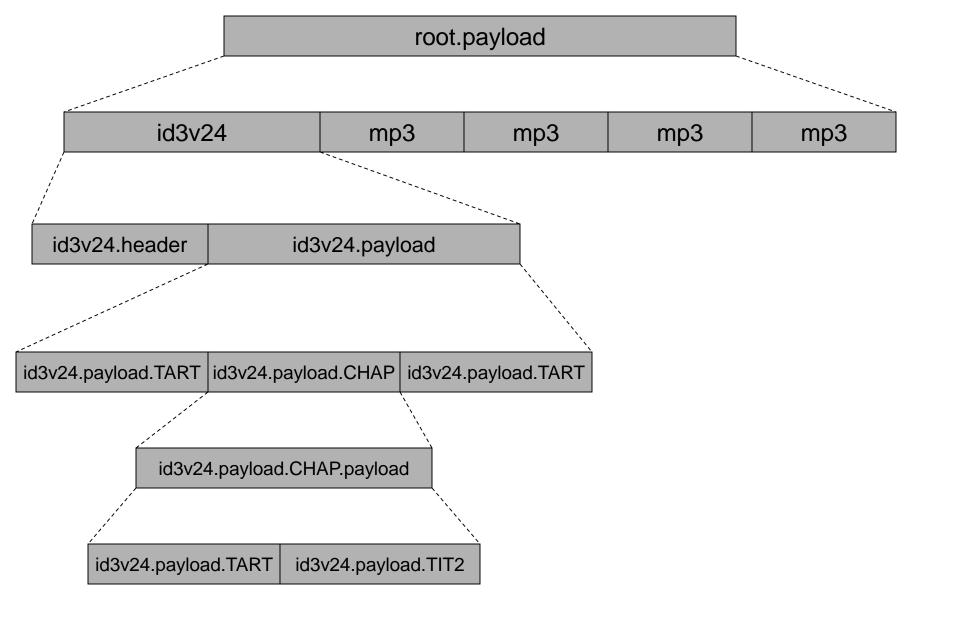
### III\_TypicalBlockStructure.pdf ##SIZE=[85;80]##



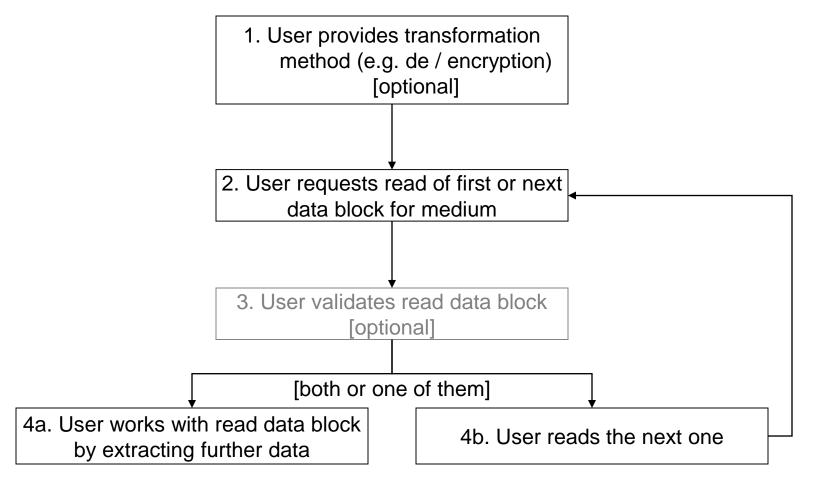
III\_FlatHierarchy.pdf ##SIZE=[100;95]##

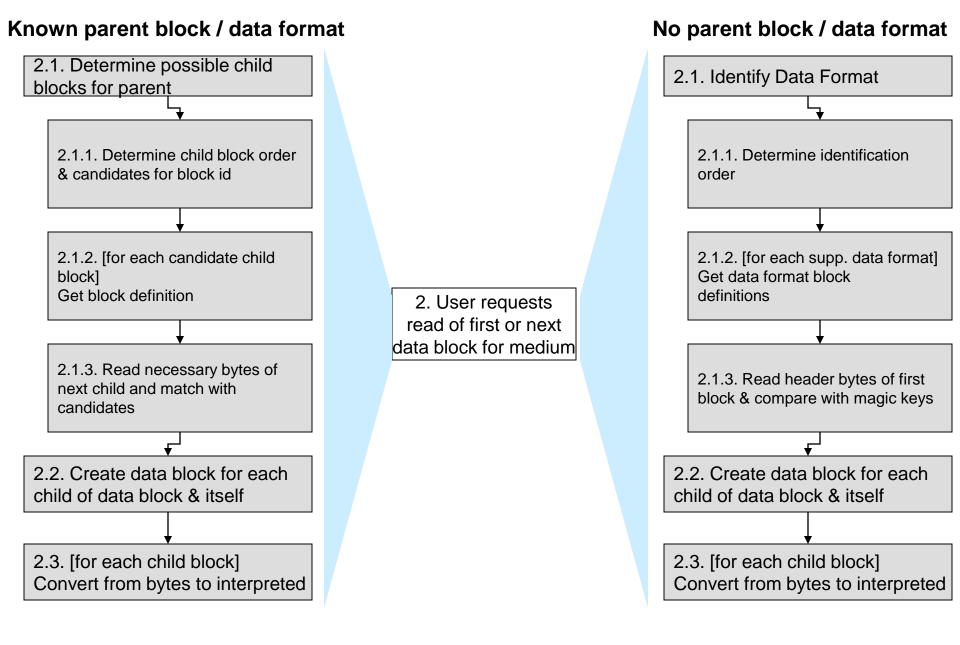


### III\_UniformHierarchy.pdf ##SIZE=[100;95]##

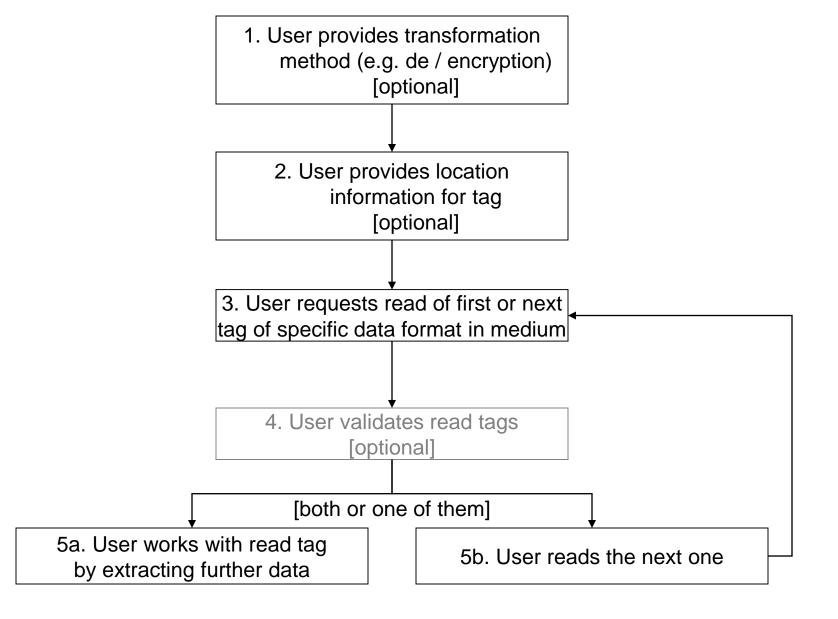


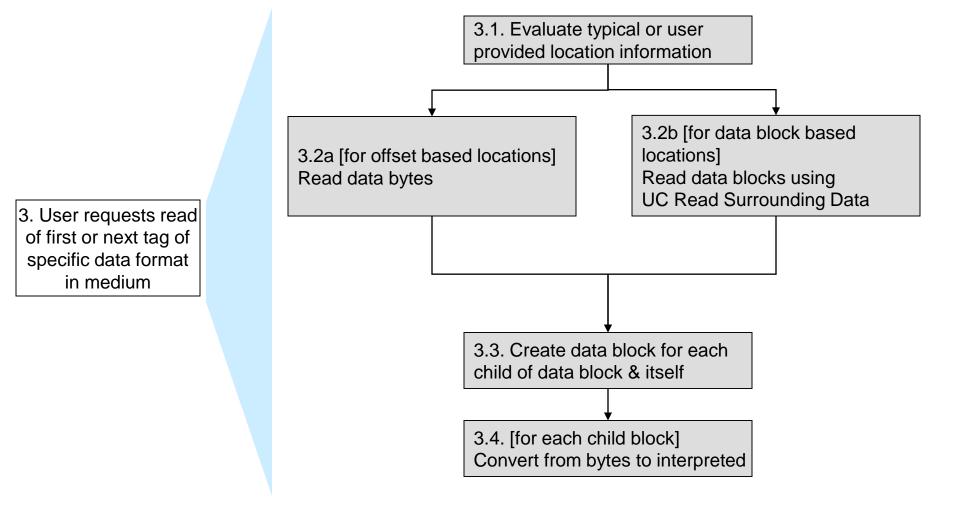
### III\_ExampleDataBlockHierarchy.pdf ##SIZE=[95;80]##

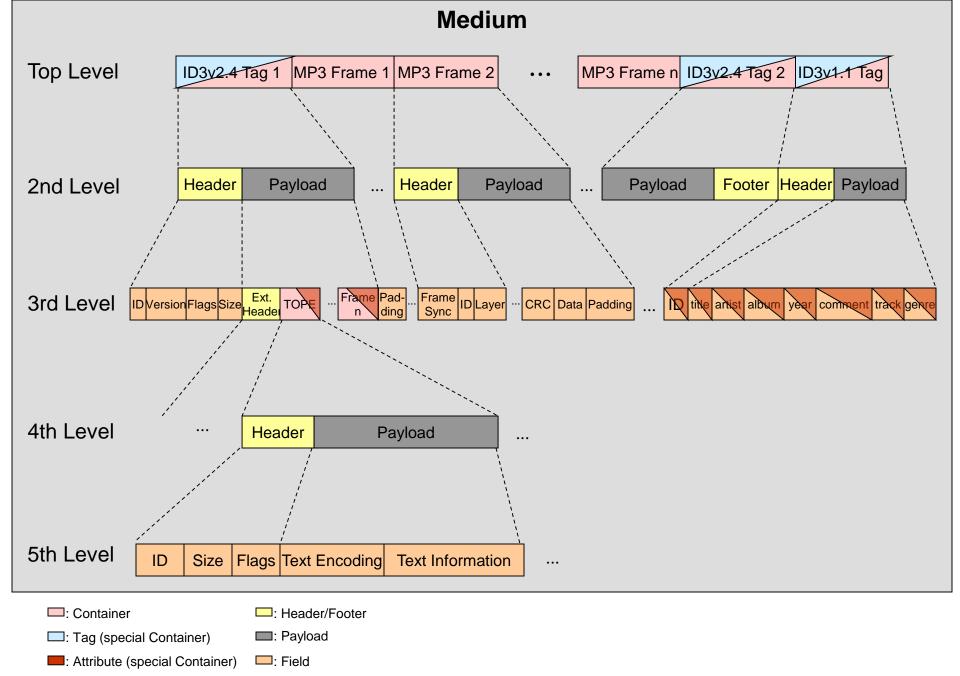




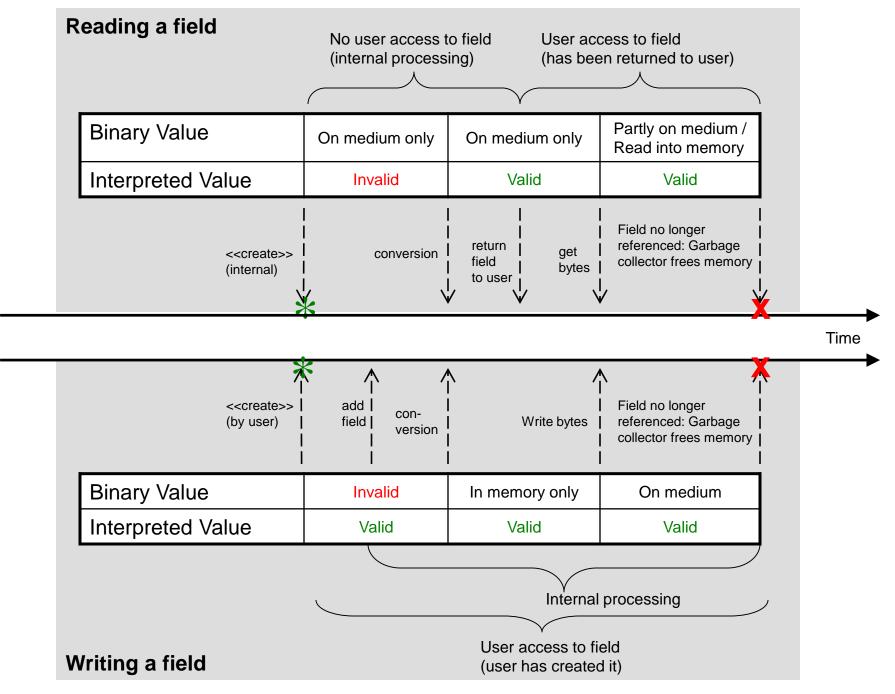
#### III\_ReadingDataBlocksDetailed.pdf ##SIZE=[100;100]##



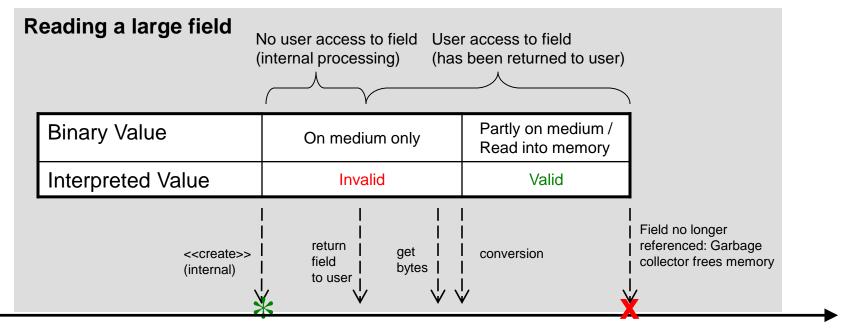




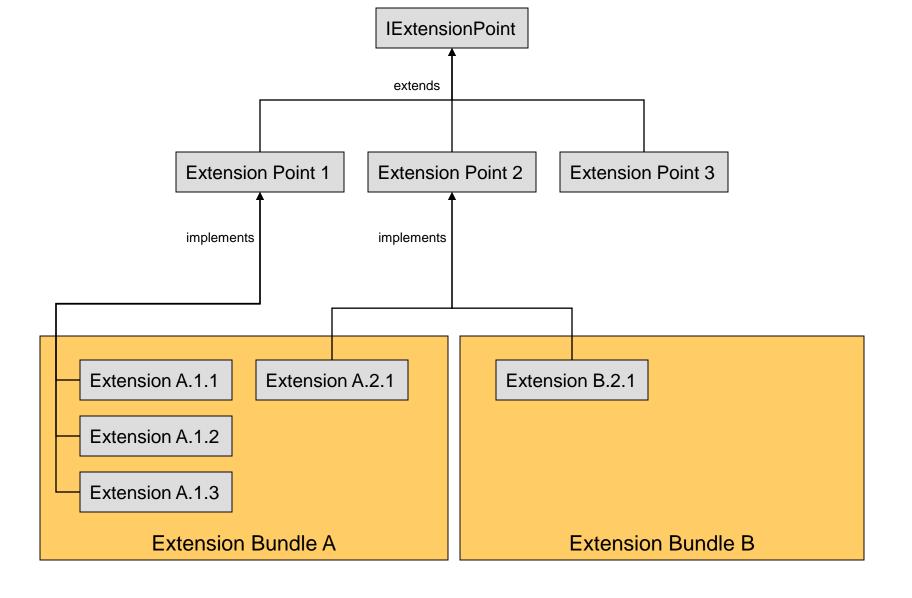
III\_DataBlockStructure.pdf ##SIZE=[100;95]##



III\_FieldLifeCycles.pdf ##SIZE=[95;100]##



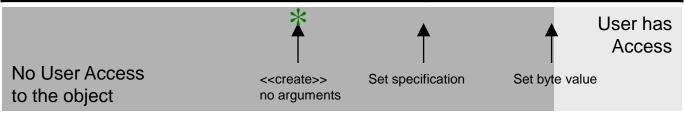
Time



### Value States

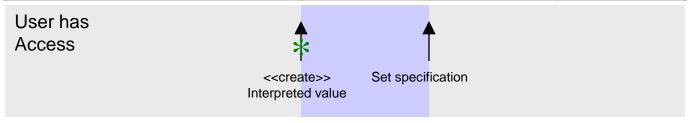
#### Read

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

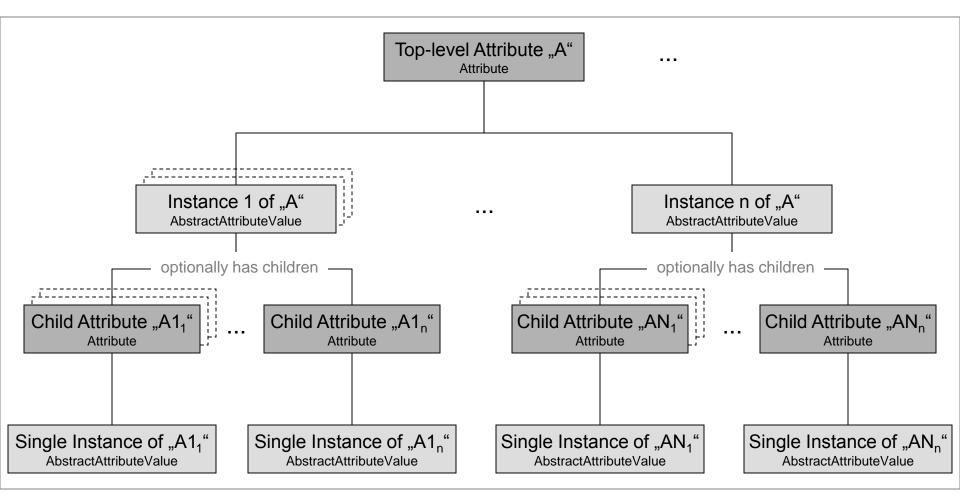


#### **Write**

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



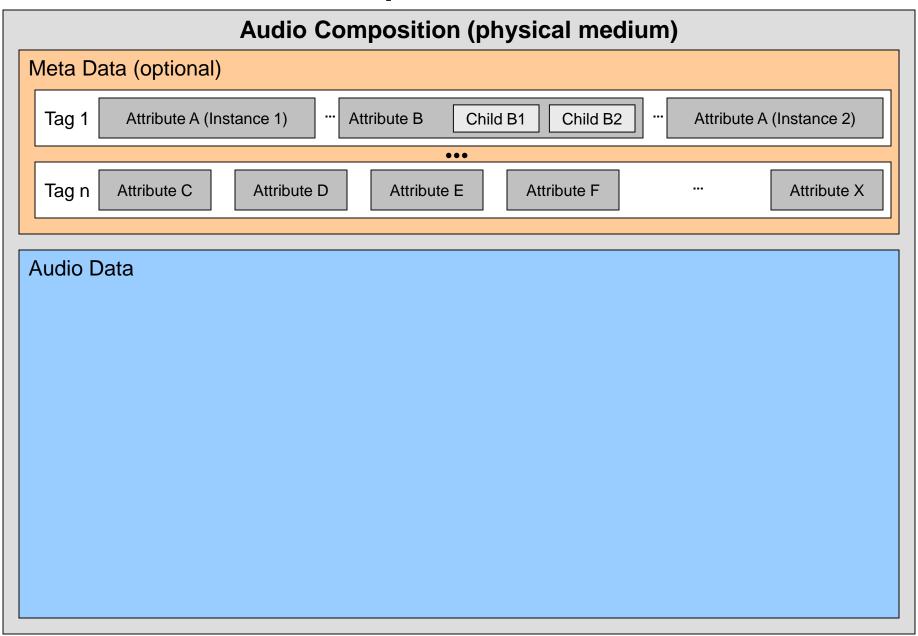
# Attribute Hierarchy

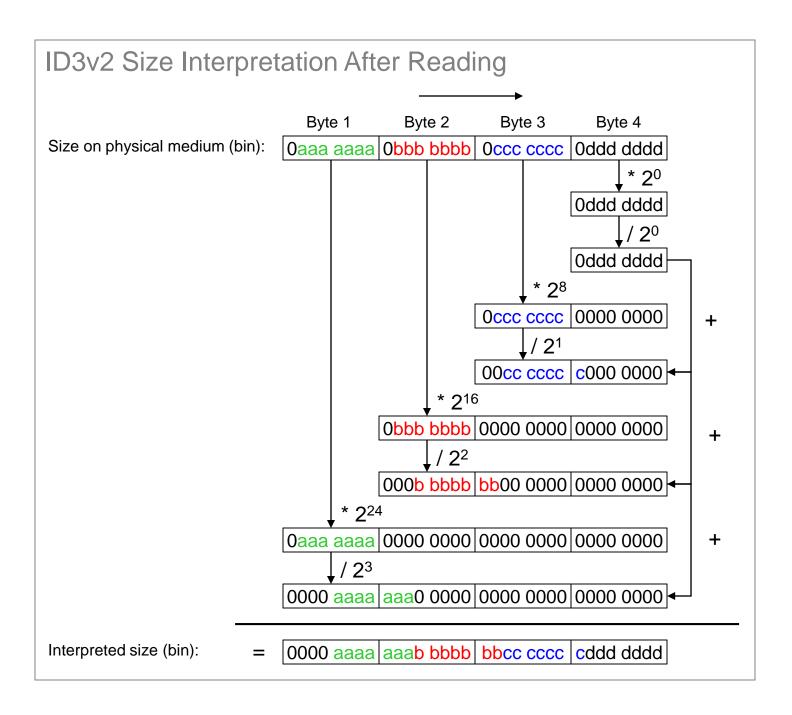


## Library Structure

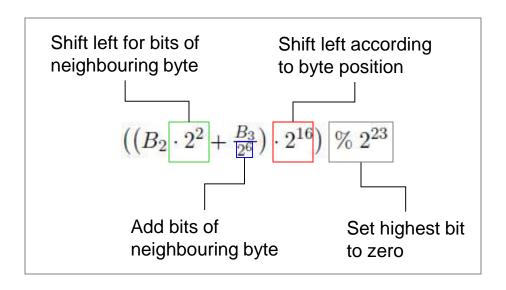
Extensions contained in Basic concept v0.5 bundle **Library Core Library Core** ID3v1 ID3v2.3 Tag Format Tag Format Audio Format **Audio Format** MPEG III Extension 1 Extension n Extension 1 Extension m Layer 2 ID3v1.1 ID3v2.4 **Extensions Extensions** 

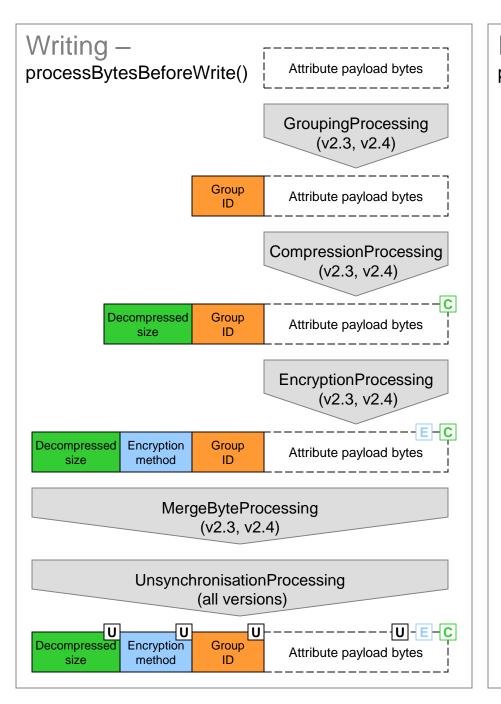
### **Audio Composition Structure**

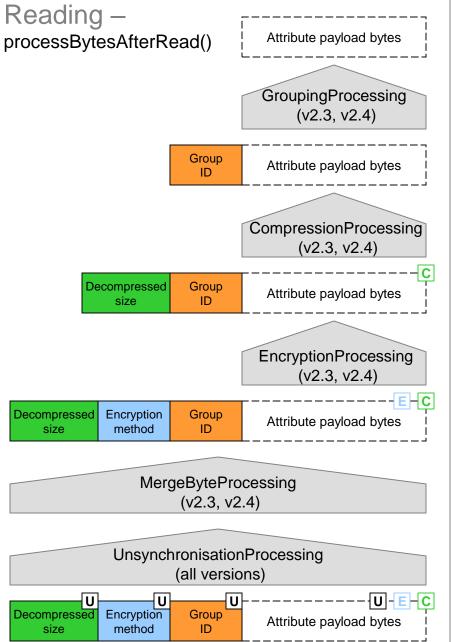




### Formula for retrieving ID3v2 size to write







# Example Flag Spec

#### Flag Bytes

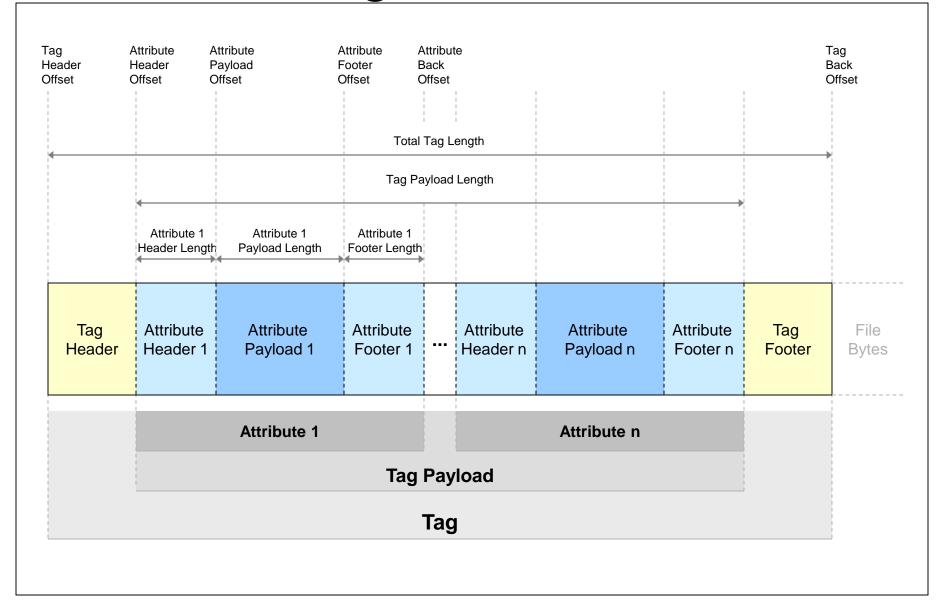
abc0 0000

Byte length = 1

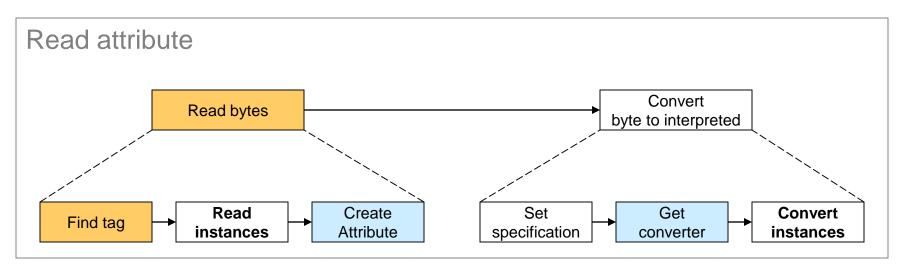
Byte order = Big Endian

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

# Tag Structure



### Read attribute



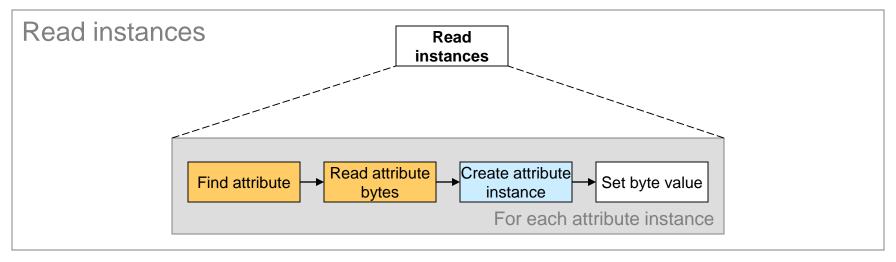
: Object creation / retrieval

: Access to physical medium

: Other action

: Action with sub-steps detailed on further figure

### Read instances



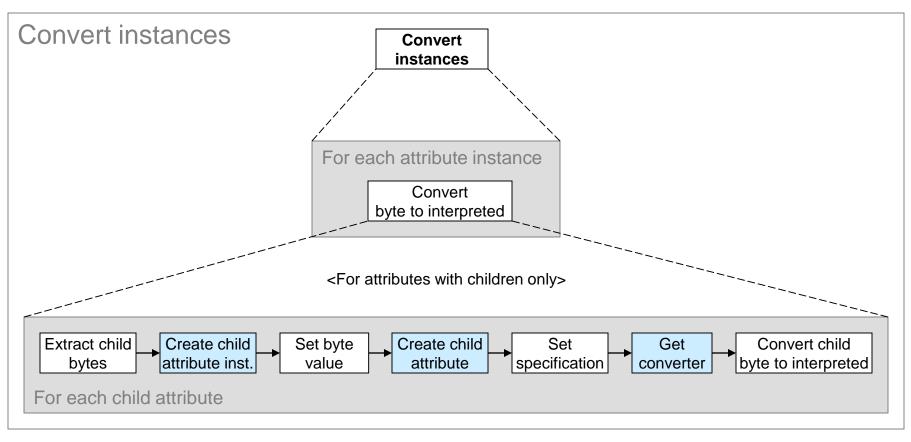
l: Object creation / retrieval

: Access to physical medium

: Other action

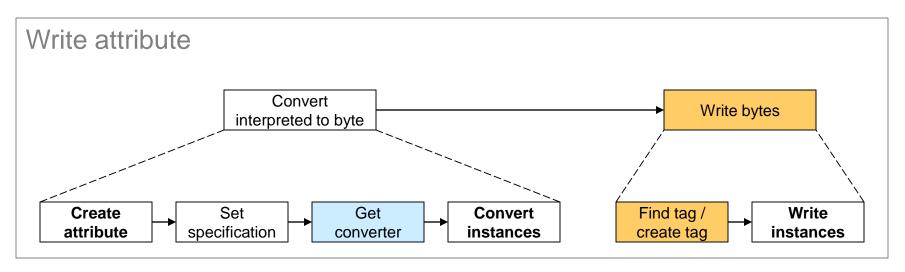
: Action with sub-steps detailed on further figure

# Convert instances (Reading)



- : Object creation / retrieval
  - : Access to physical medium
  - ☐ : Other action
- : Action with sub-steps detailed on further figure

### Write attribute



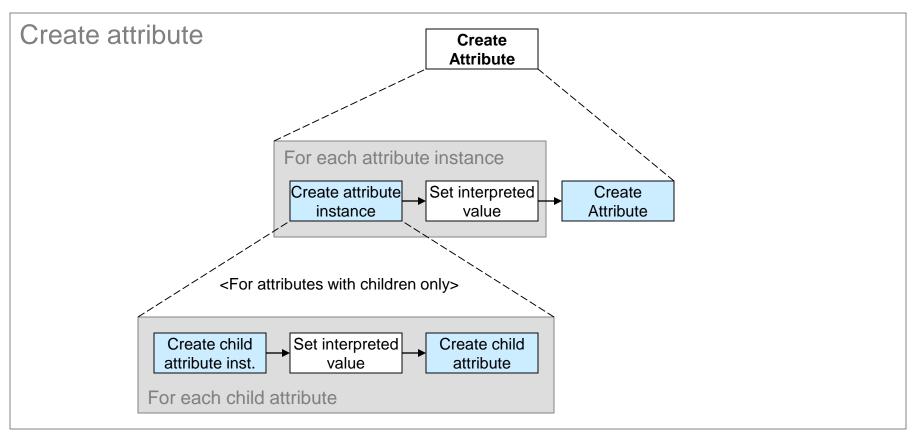
: Object creation / retrieval

: Access to physical medium

: Other action

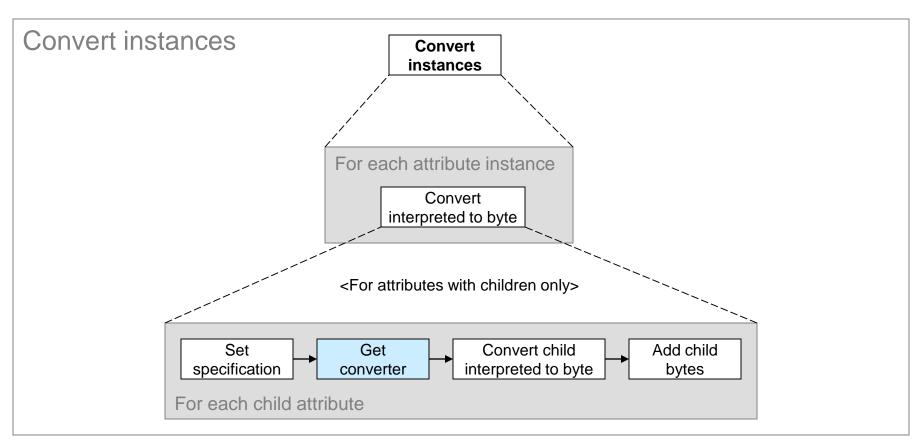
: Action with sub-steps detailed on further figure

# Create attribute (Writing)



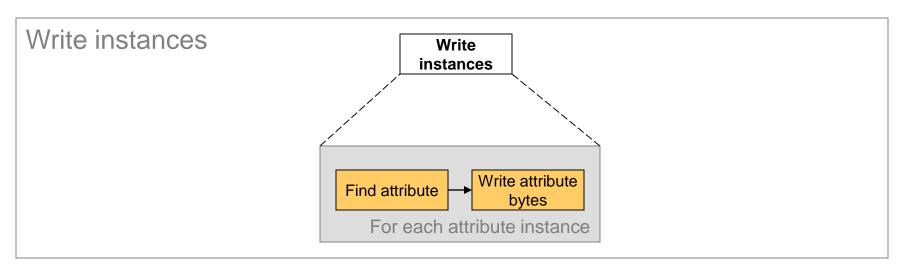
- : Object creation / retrieval
  - : Access to physical medium
  - ☐ : Other action
- ☐ : Action with sub-steps detailed on further figure

# Convert instances (Writing)



- : Object creation / retrieval
  - : Access to physical medium
  - ☐ : Other action
- ☐ : Action with sub-steps detailed on further figure

### Write instances



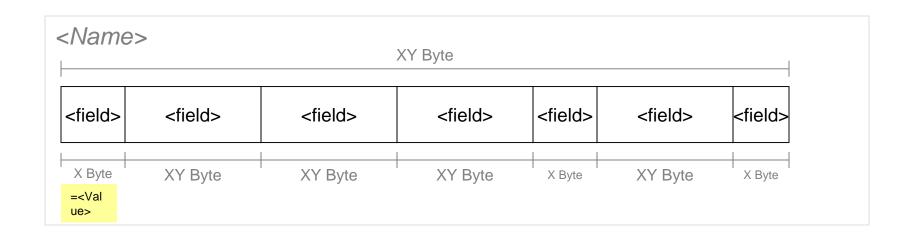
: Object creation / retrieval

: Access to physical medium

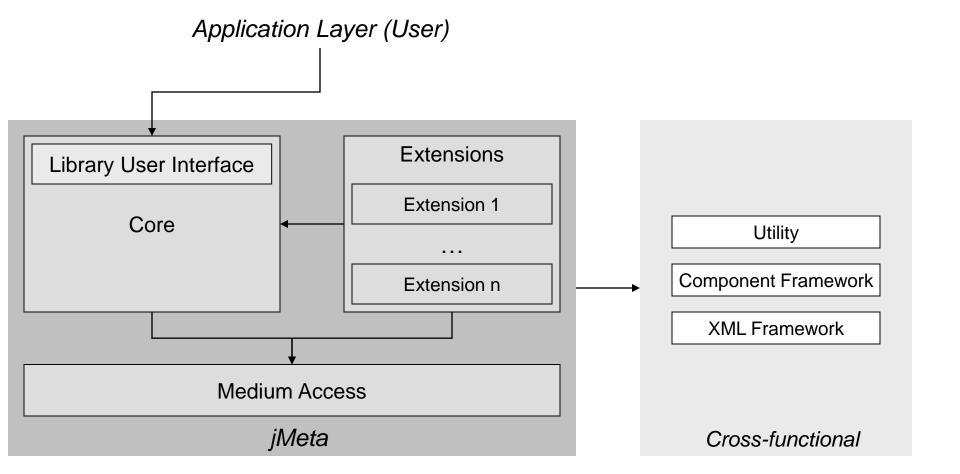
: Other action

: Action with sub-steps detailed on further figure

Hallo Hallo



### <part>\_<chap>\_Template.pdf ##SIZE=[100;100]##



### ALT

# **Template**

Hallo

Hallo