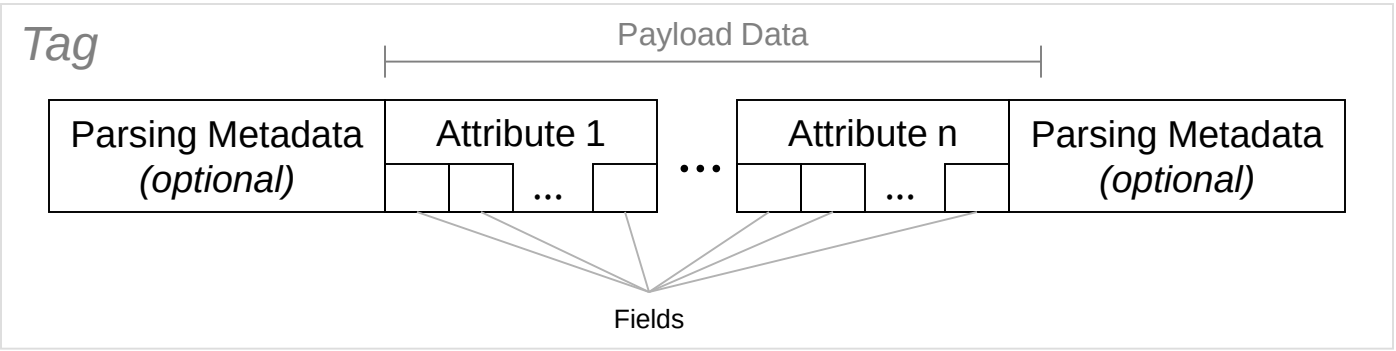
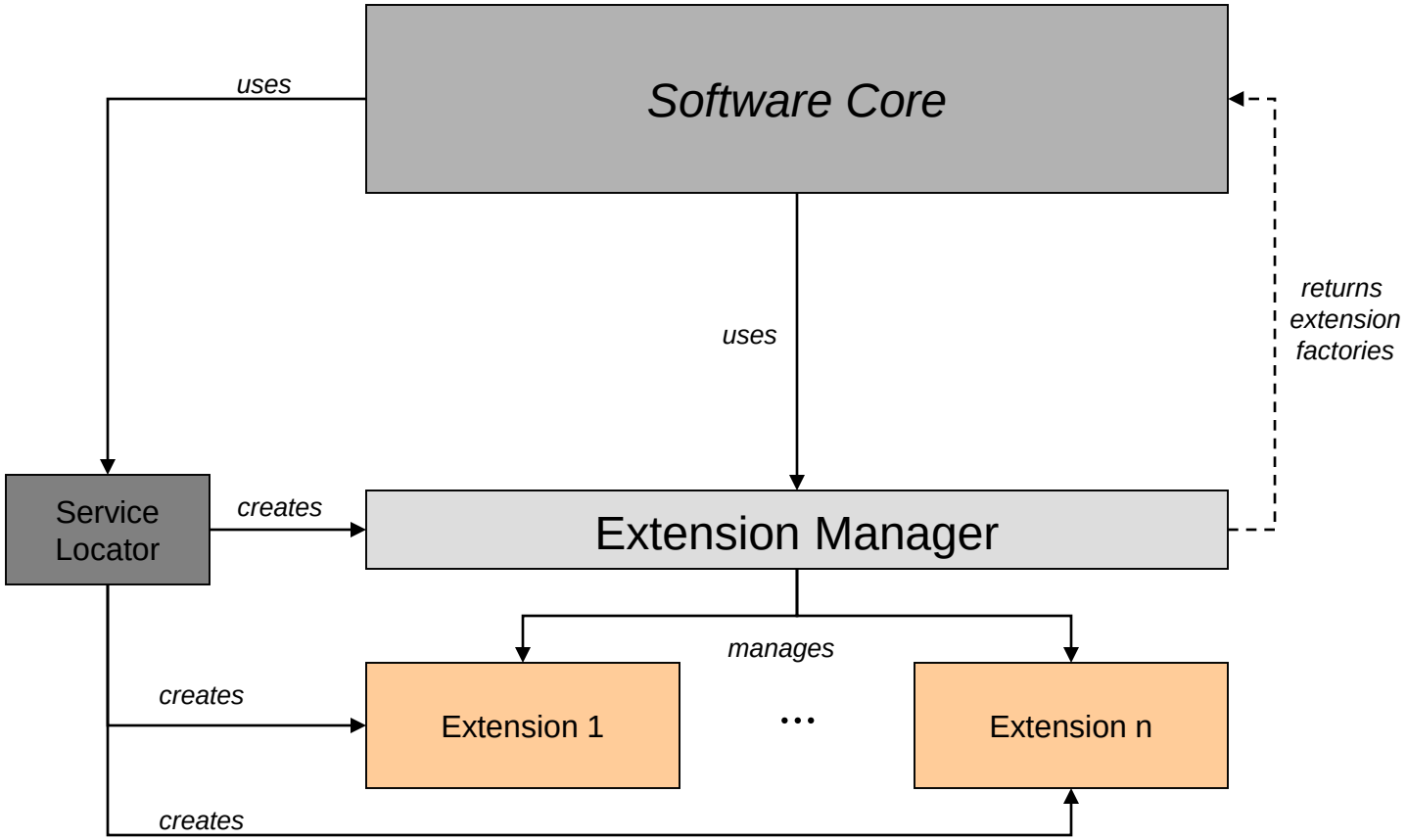
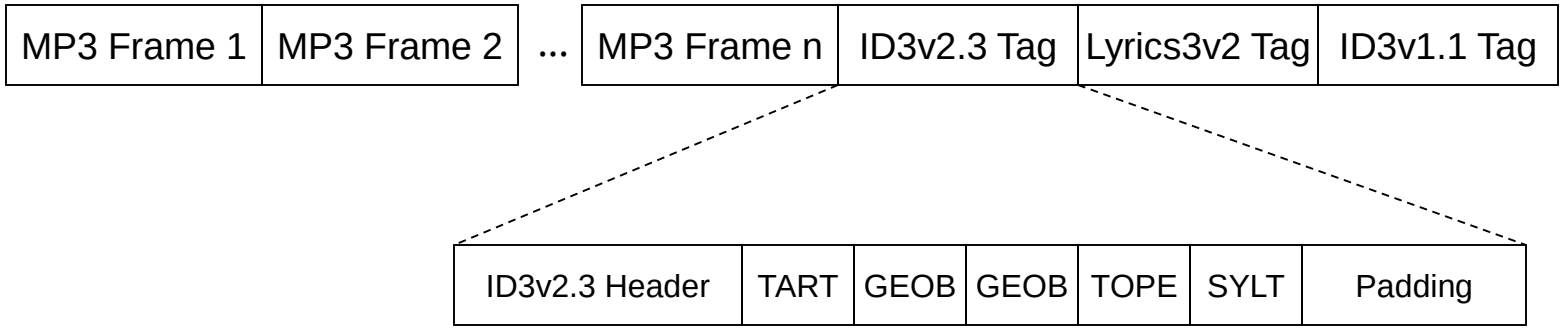


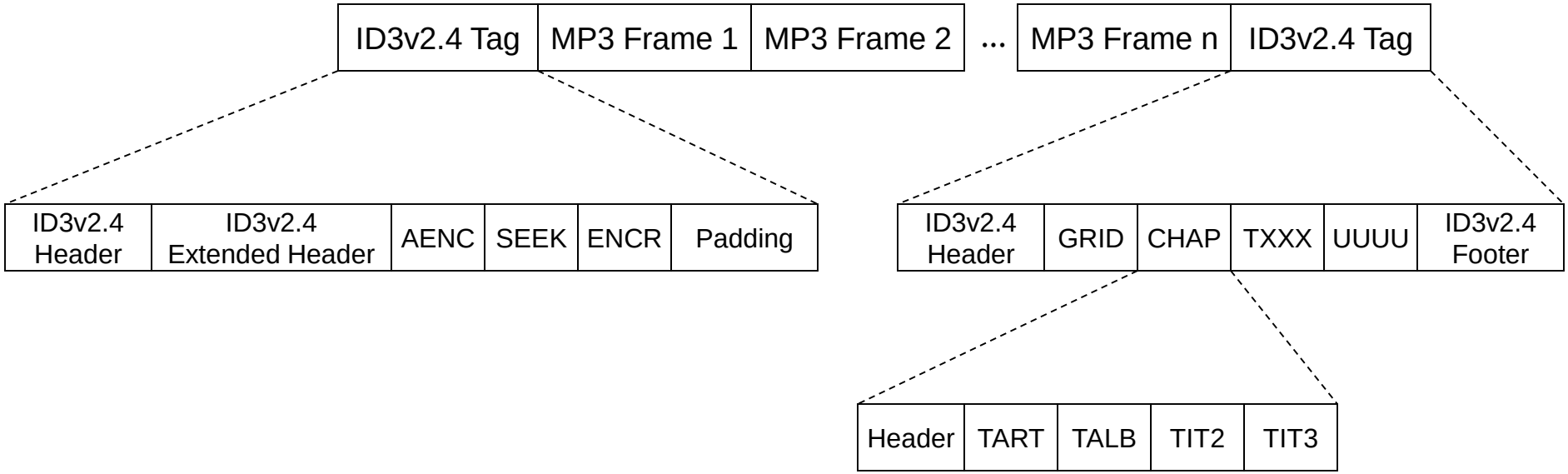
I TagStructure.pdf##SIZE=[75;30]##



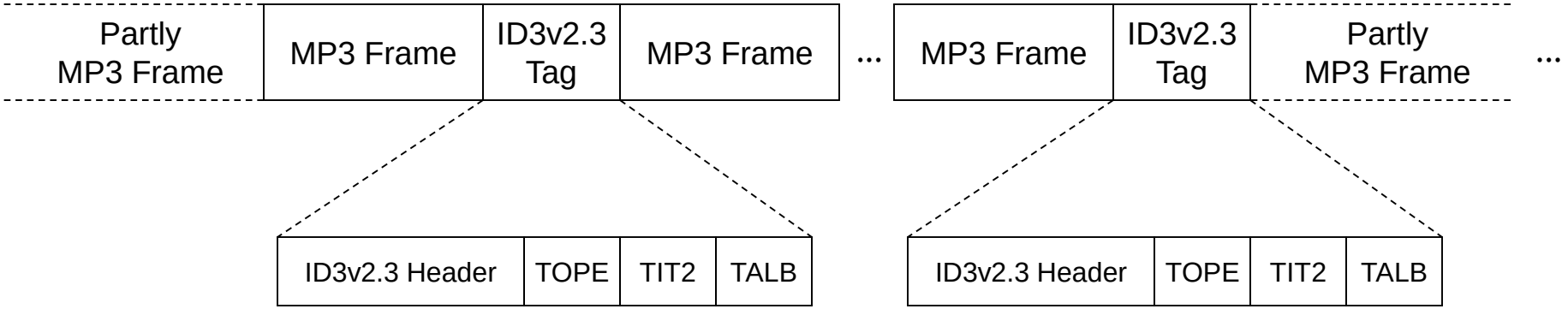
I BasicExtensionScheme.pdf ##SIZE=[80;70]##



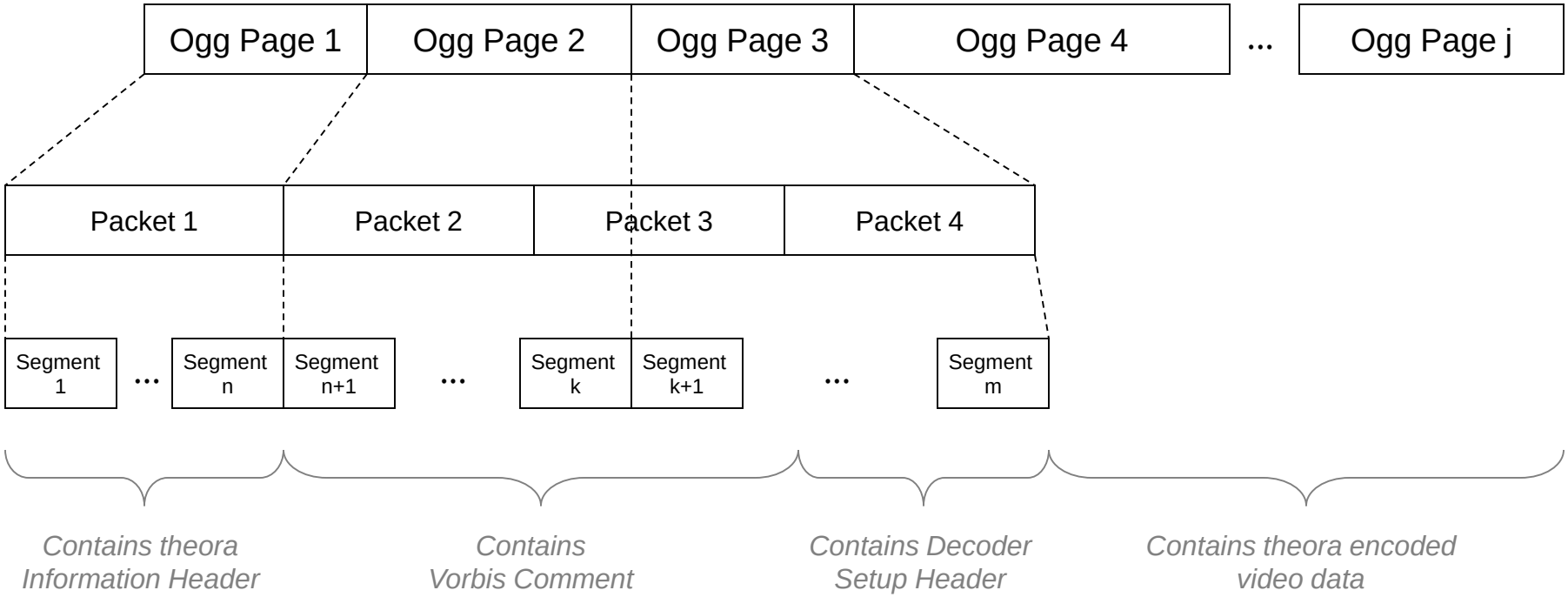
I_Example1.pdf ##SIZE=[85;25]##



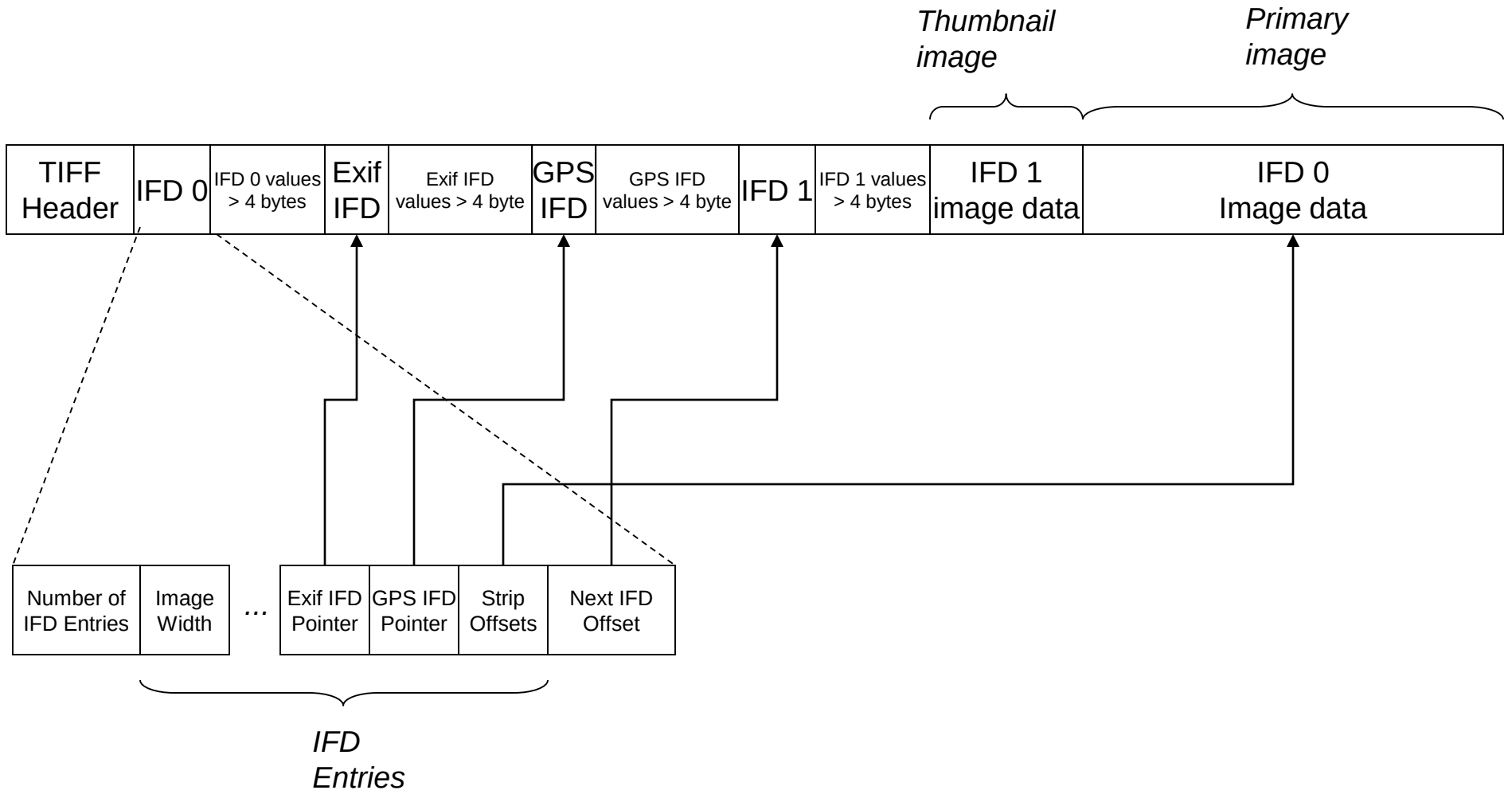
I_Example2.pdf ##SIZE=[100;50]##



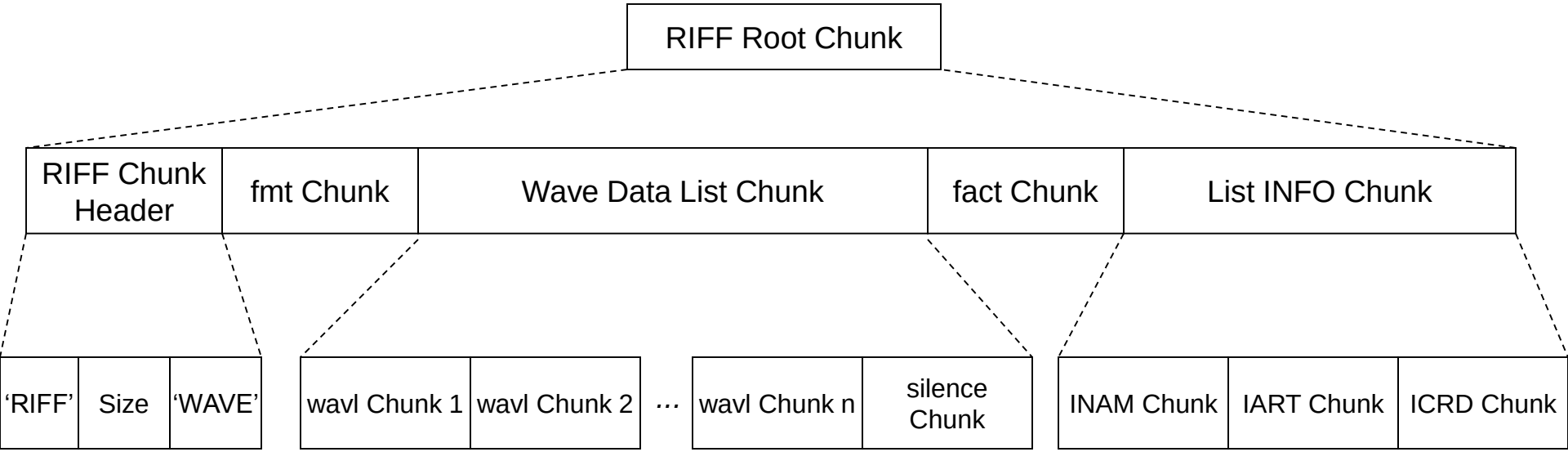
I_Example3.pdf ##SIZE=[100;30]##



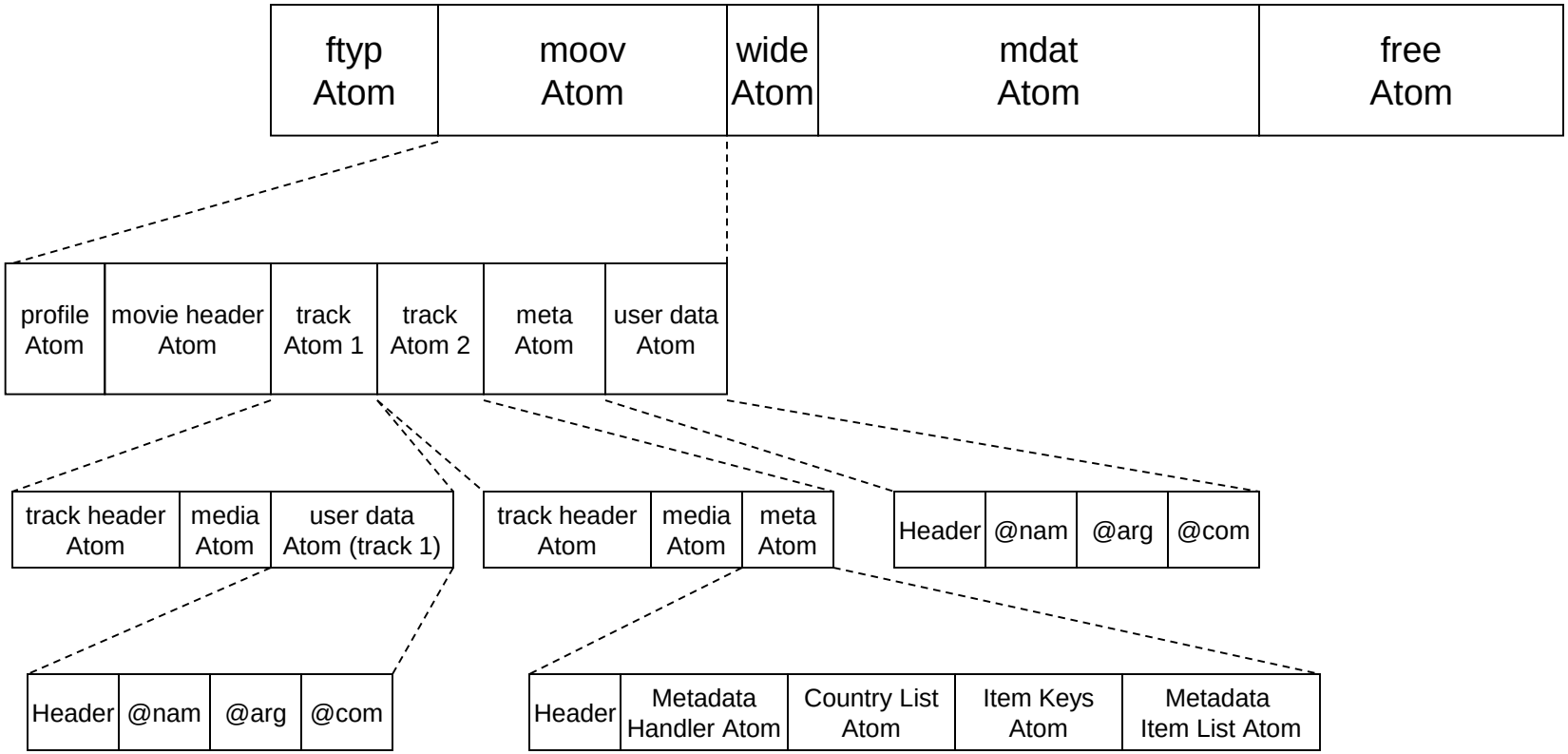
I_Example4.pdf ##SIZE=[100;50]##



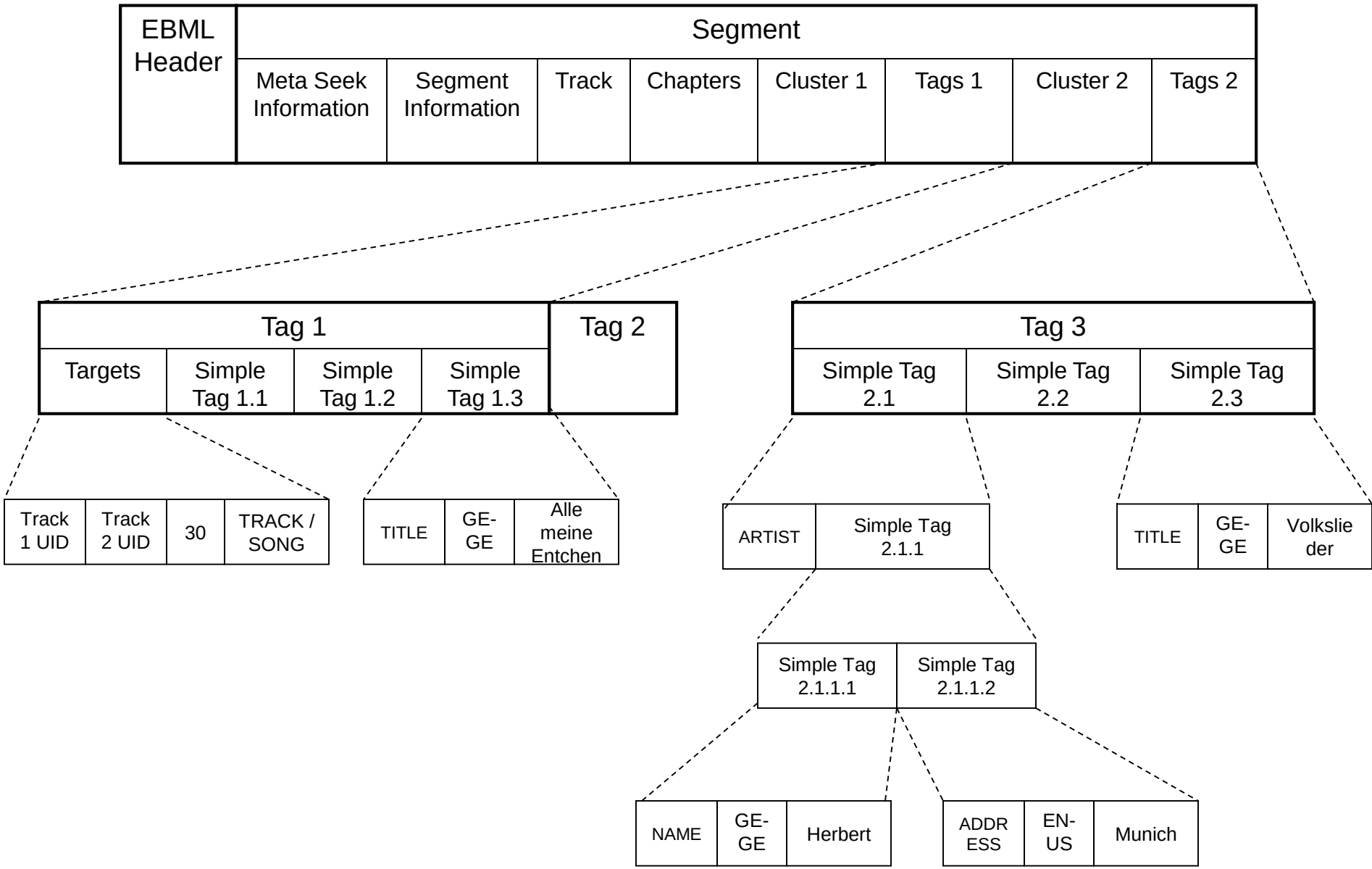
I_Example5.pdf ##SIZE=[100;75]##



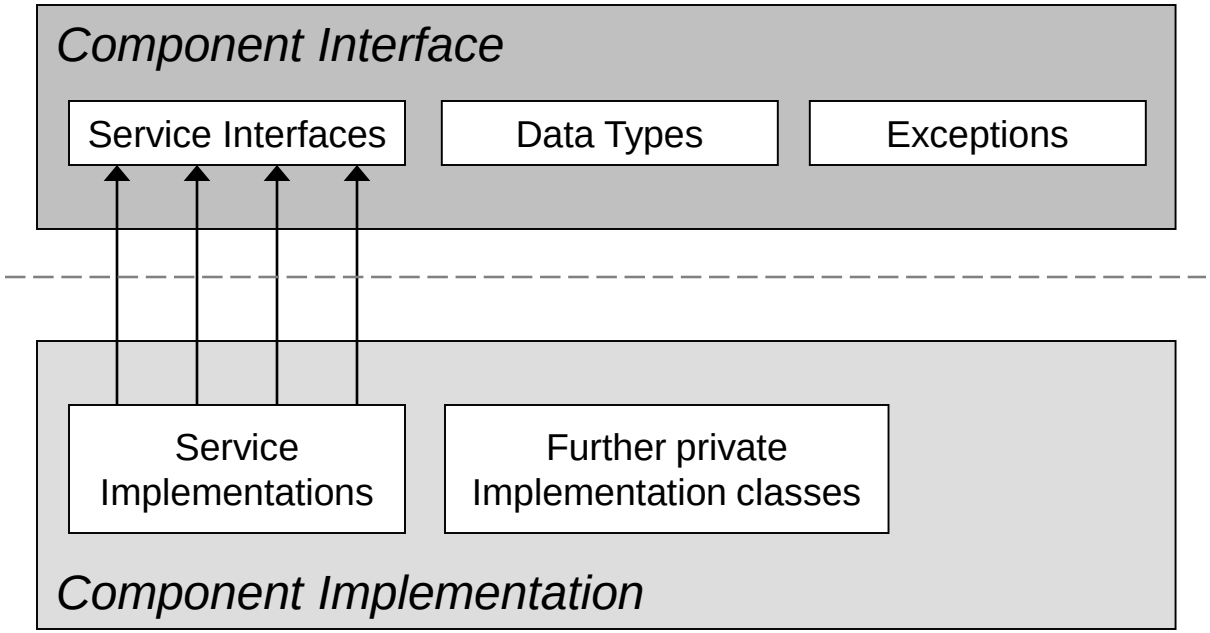
I_Example6.pdf ##SIZE=[100;40]##



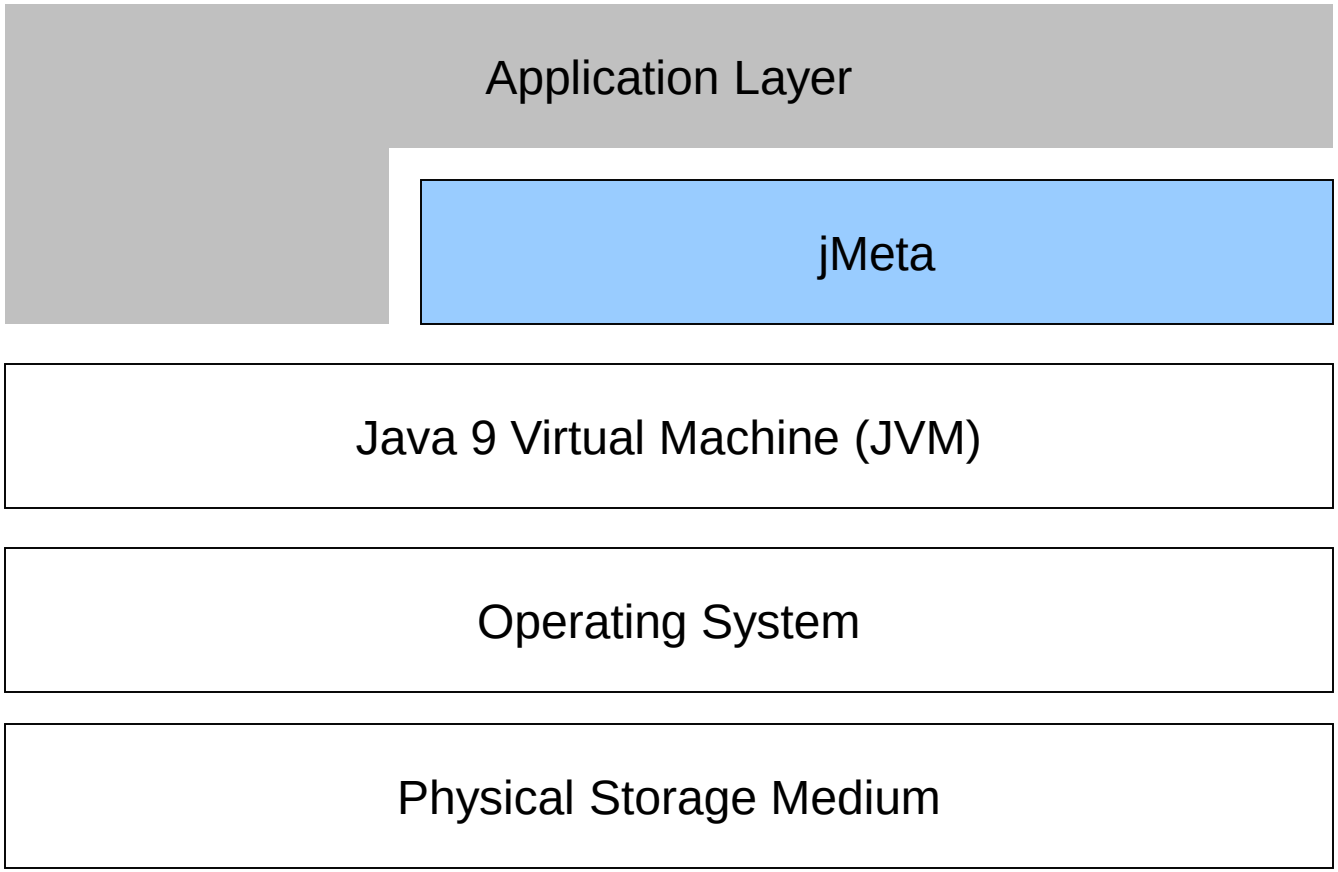
I_Example7.pdf ##SIZE=[90;60]##



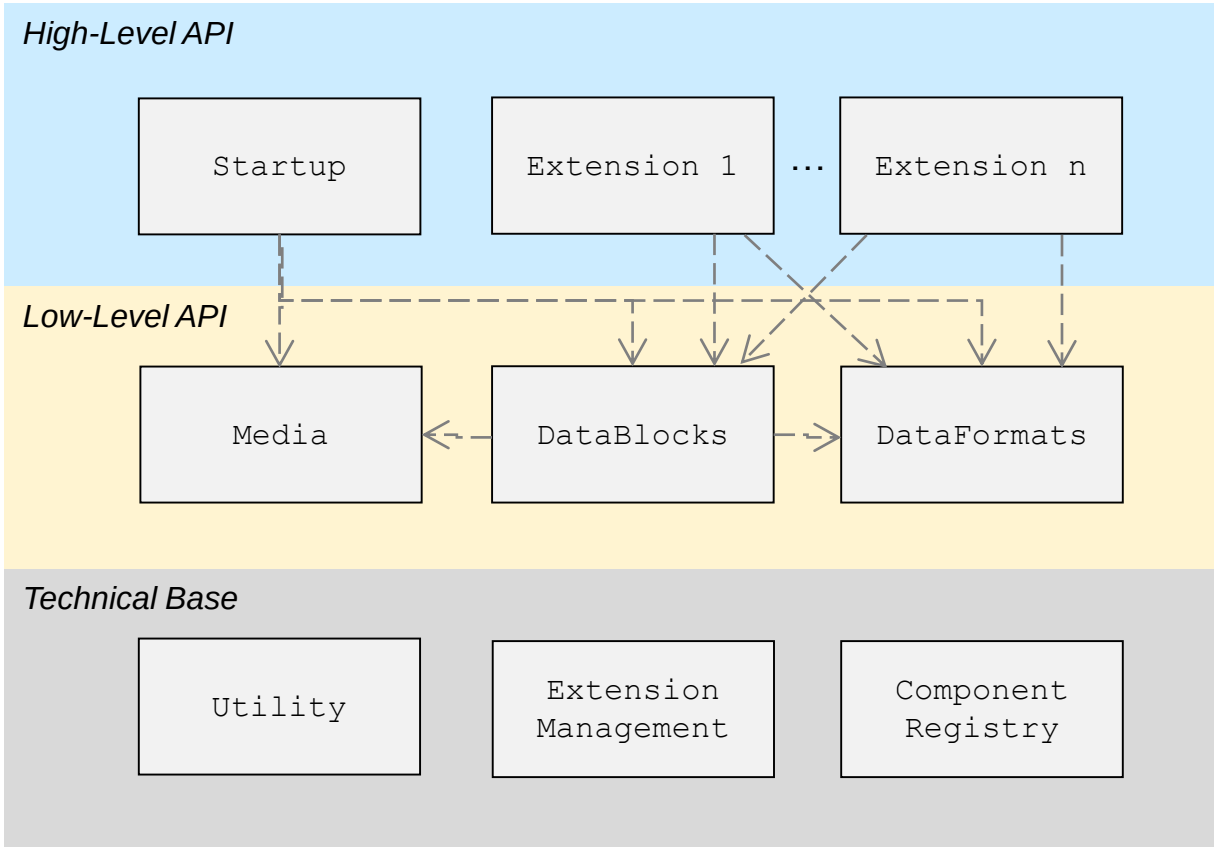
I_Example8.pdf ##SIZE=[100;90]##



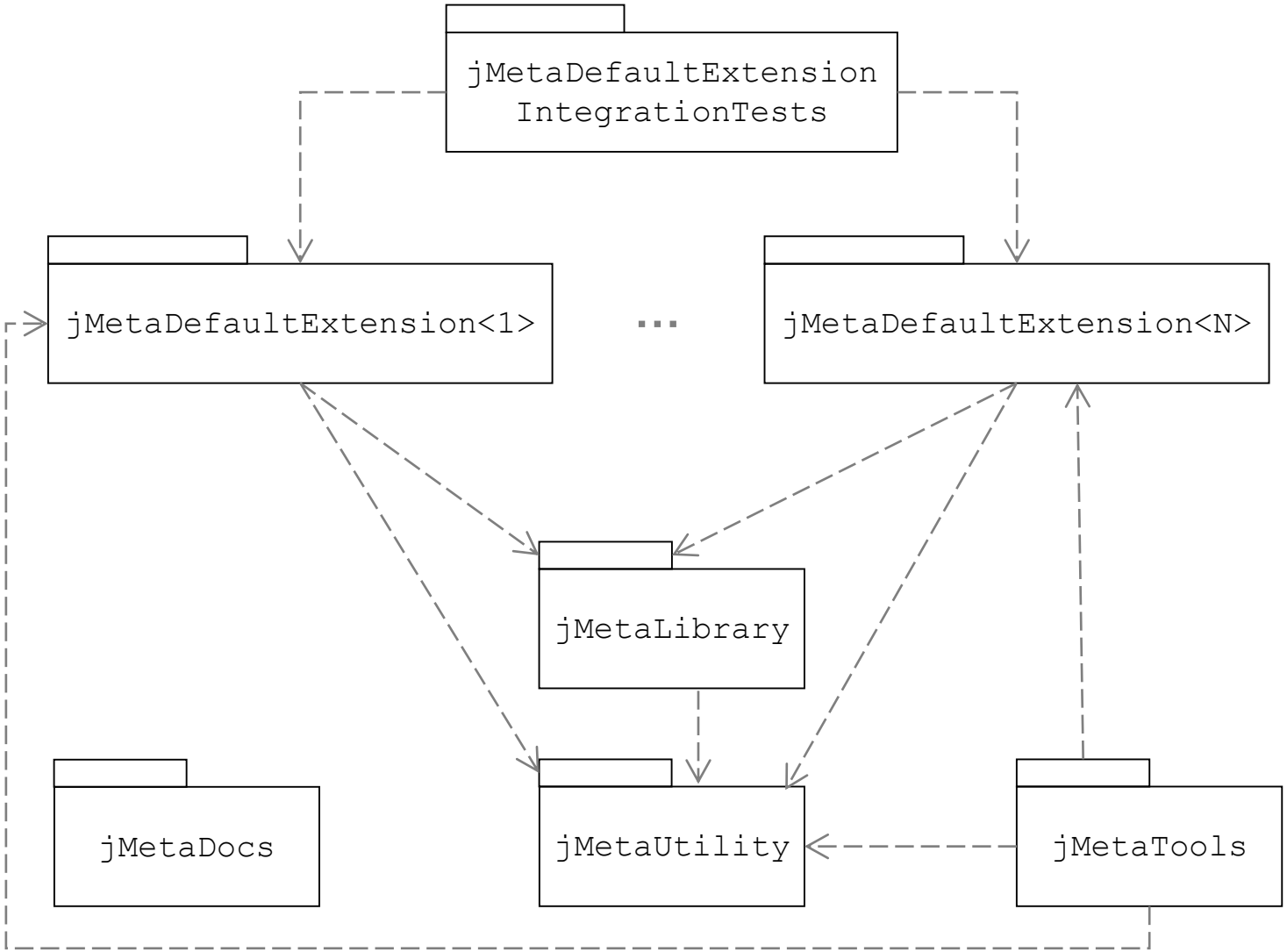
II_ComponentStructure.pdf ##SIZE=[85;50]##



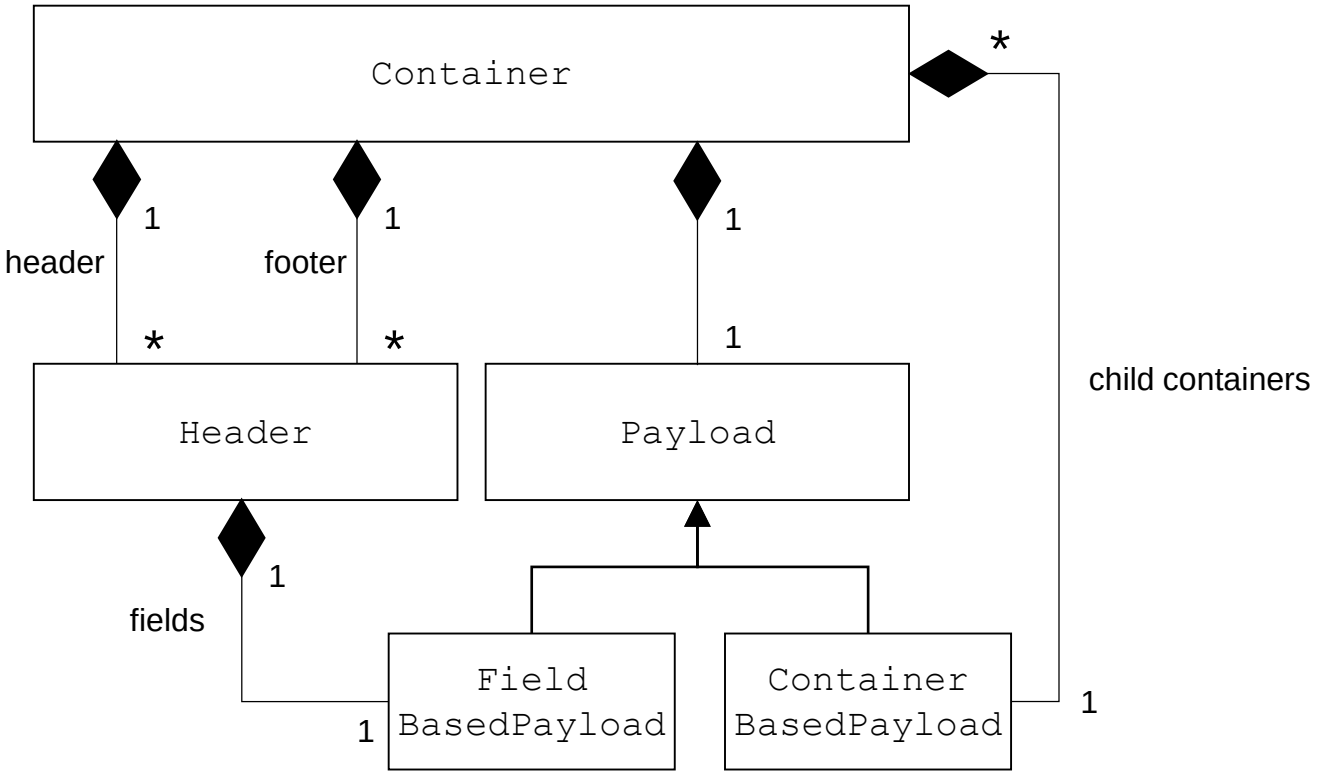
II_TechnicalInfrastructure.pdf ##SIZE=[75;70]##



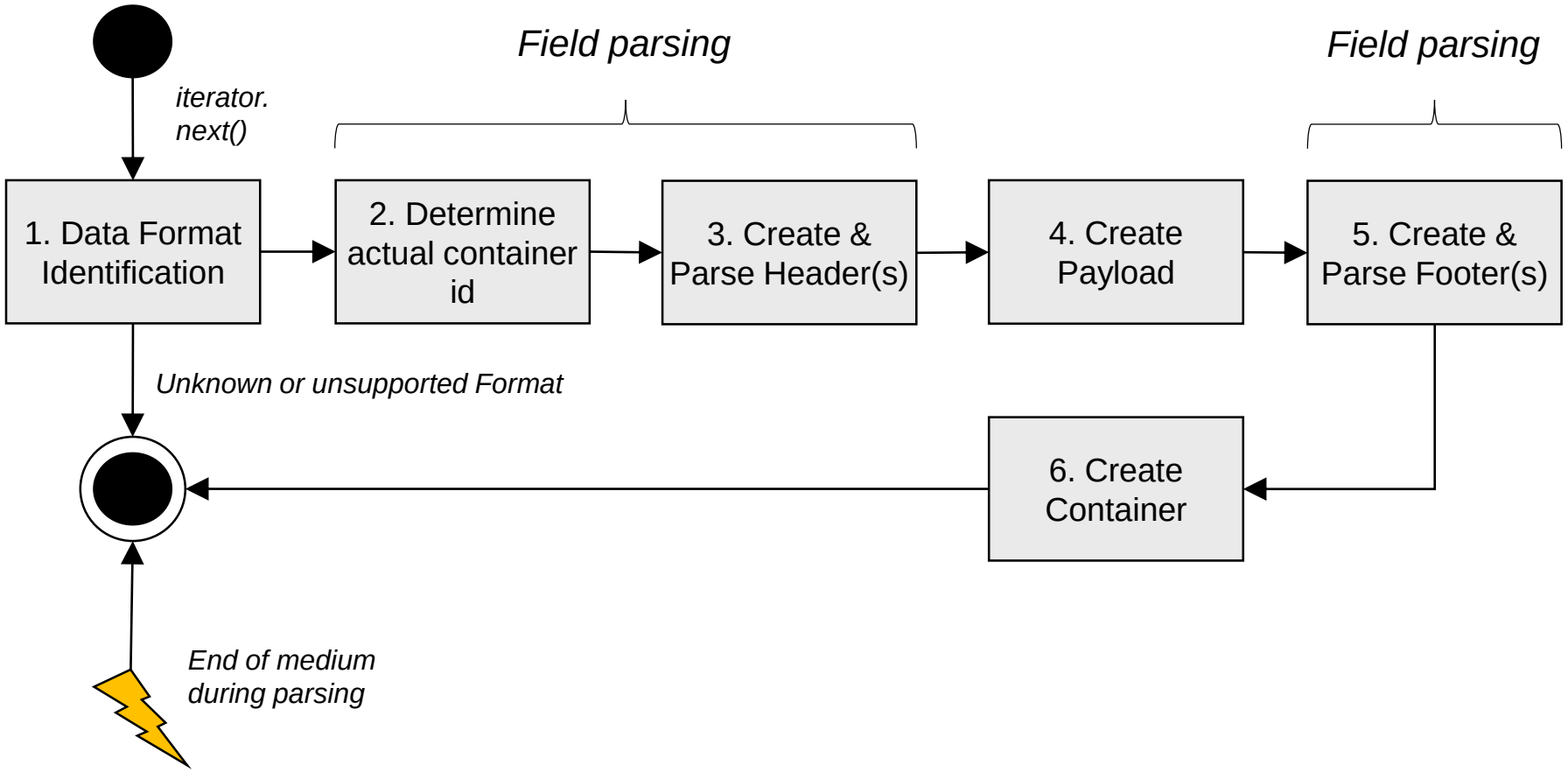
II_FunctionalArchitecture.pdf ##SIZE=[80;70]##



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

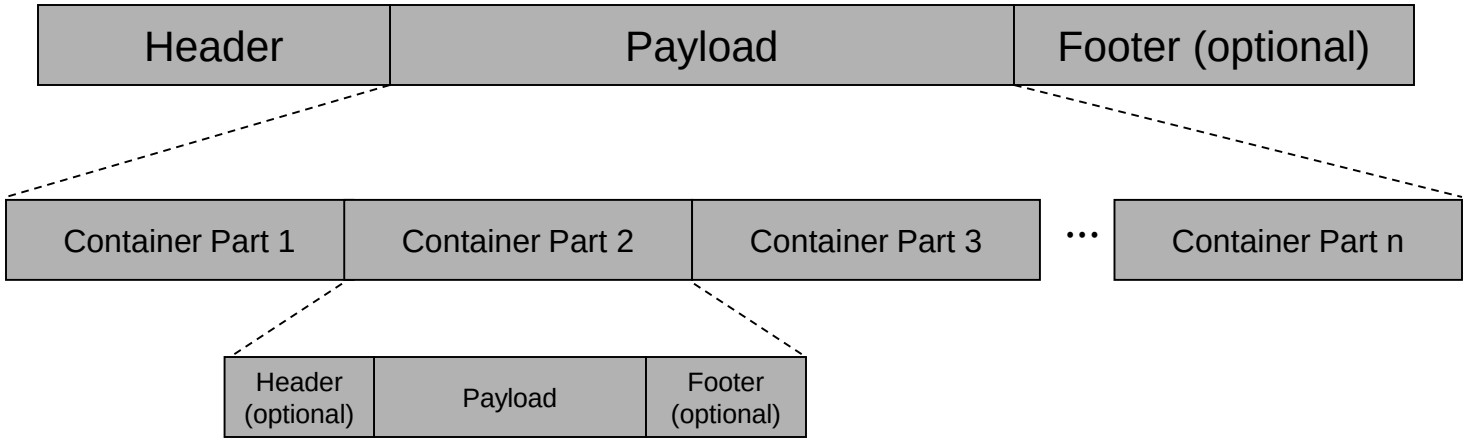


II_GeneralModel.pdf ##SIZE=[80;60]##

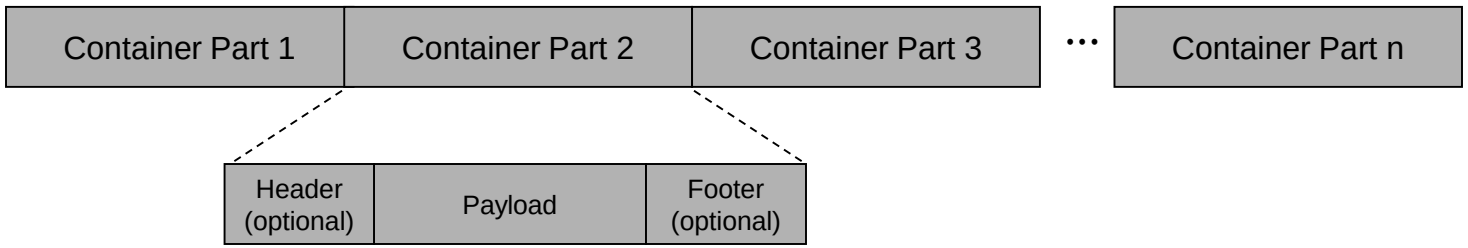


III_ForwardReading.pdf ##SIZE=[100;65]##

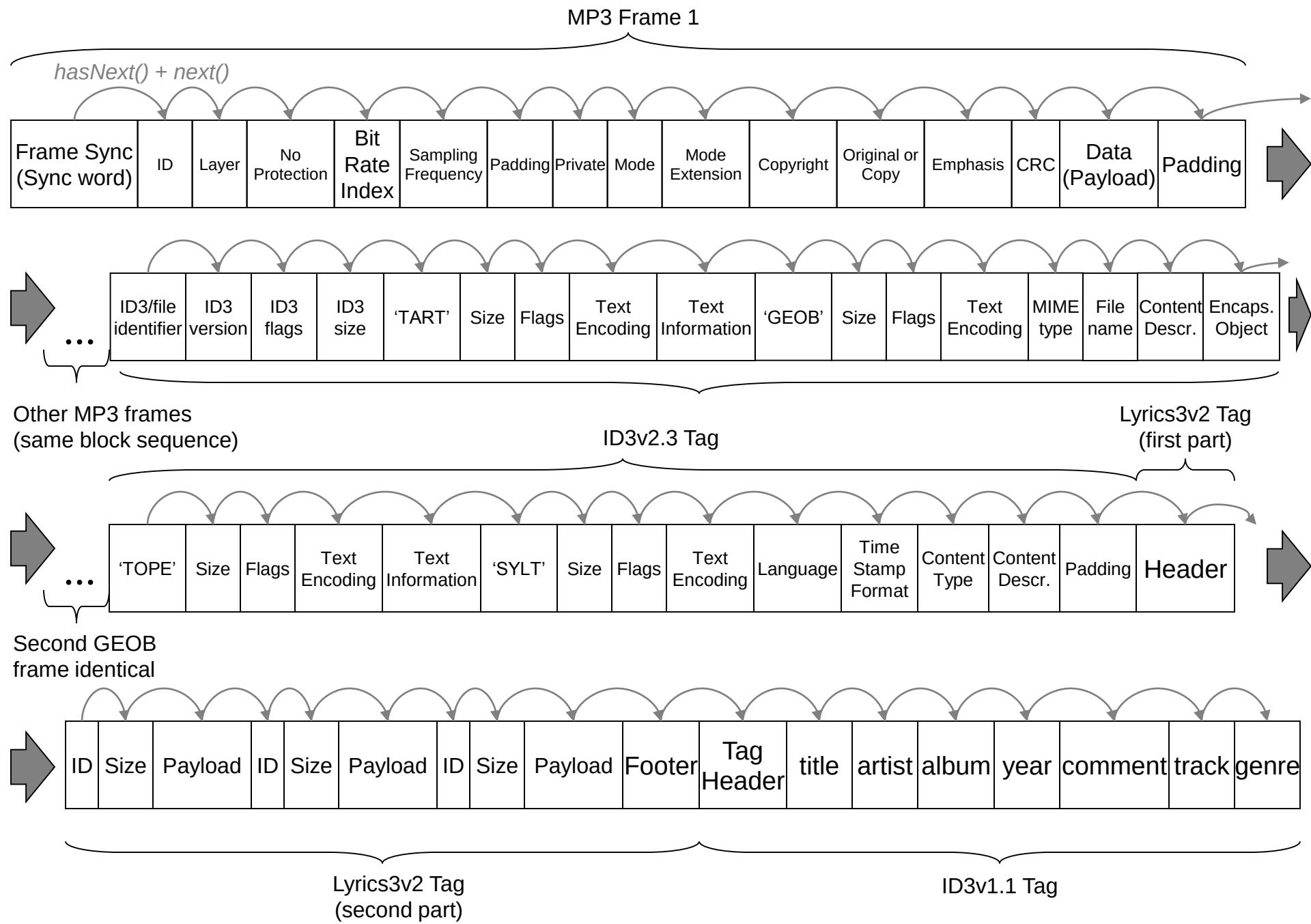
Parent Container



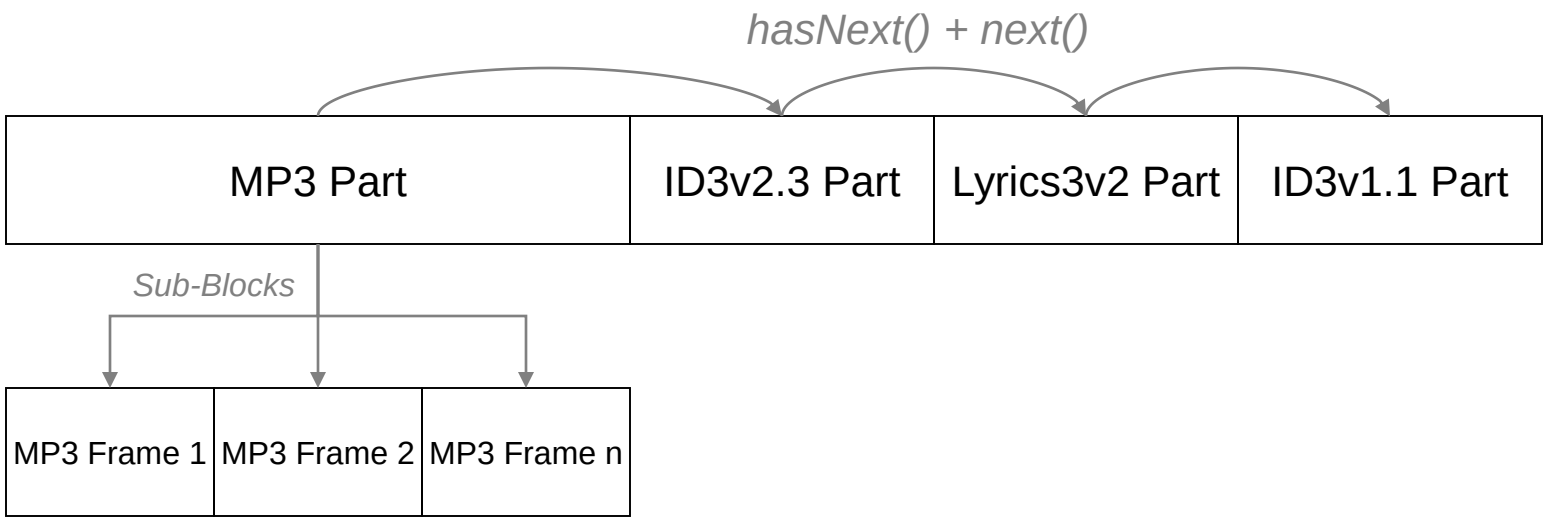
Top-Level Container Parts



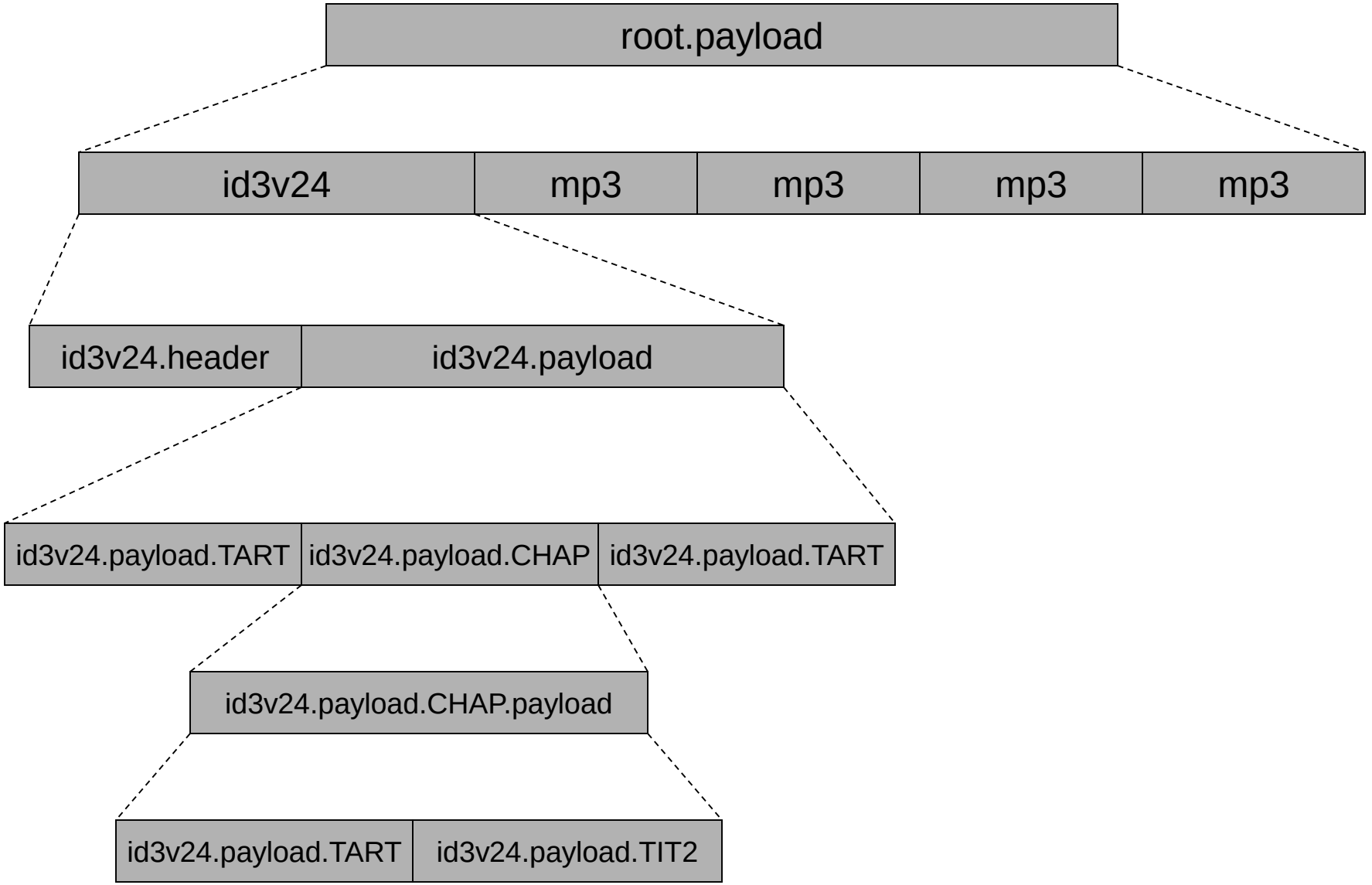
III_TypicalBlockStructure.pdf ##SIZE=[85;80]##



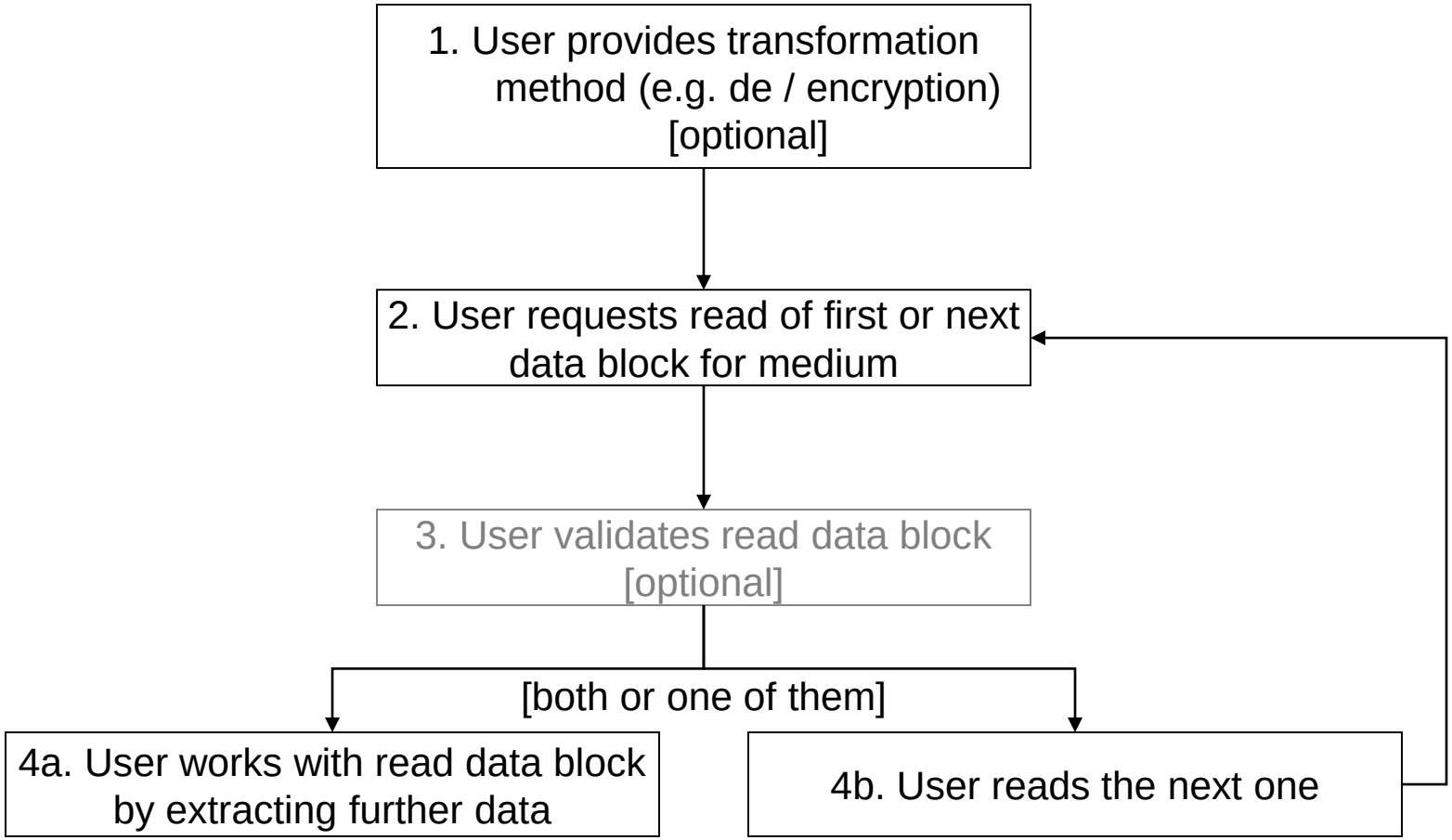
III_FlatHierarchy.pdf ##SIZE=[100;95]##



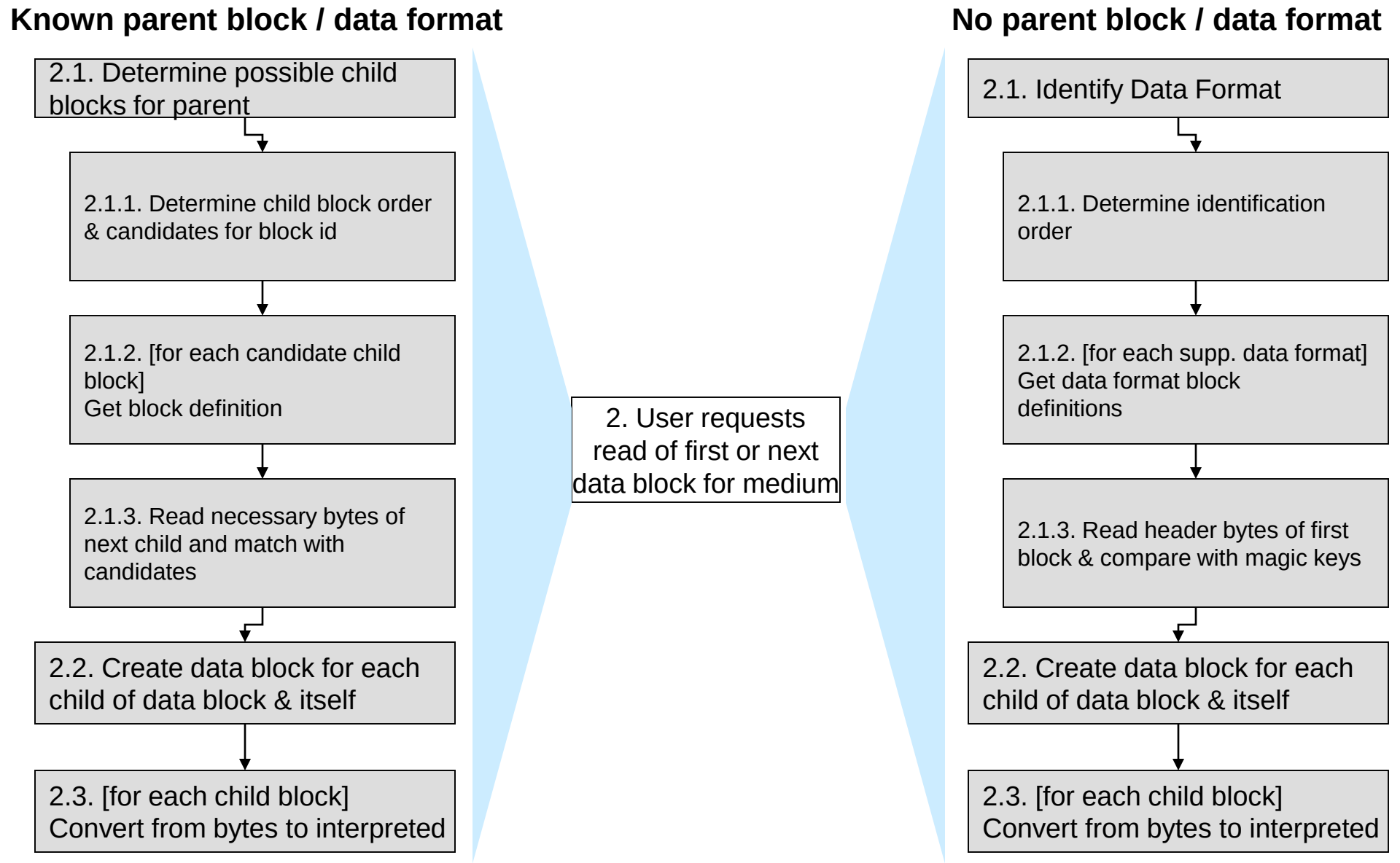
III_UniformHierarchy.pdf ##SIZE=[100;95]##



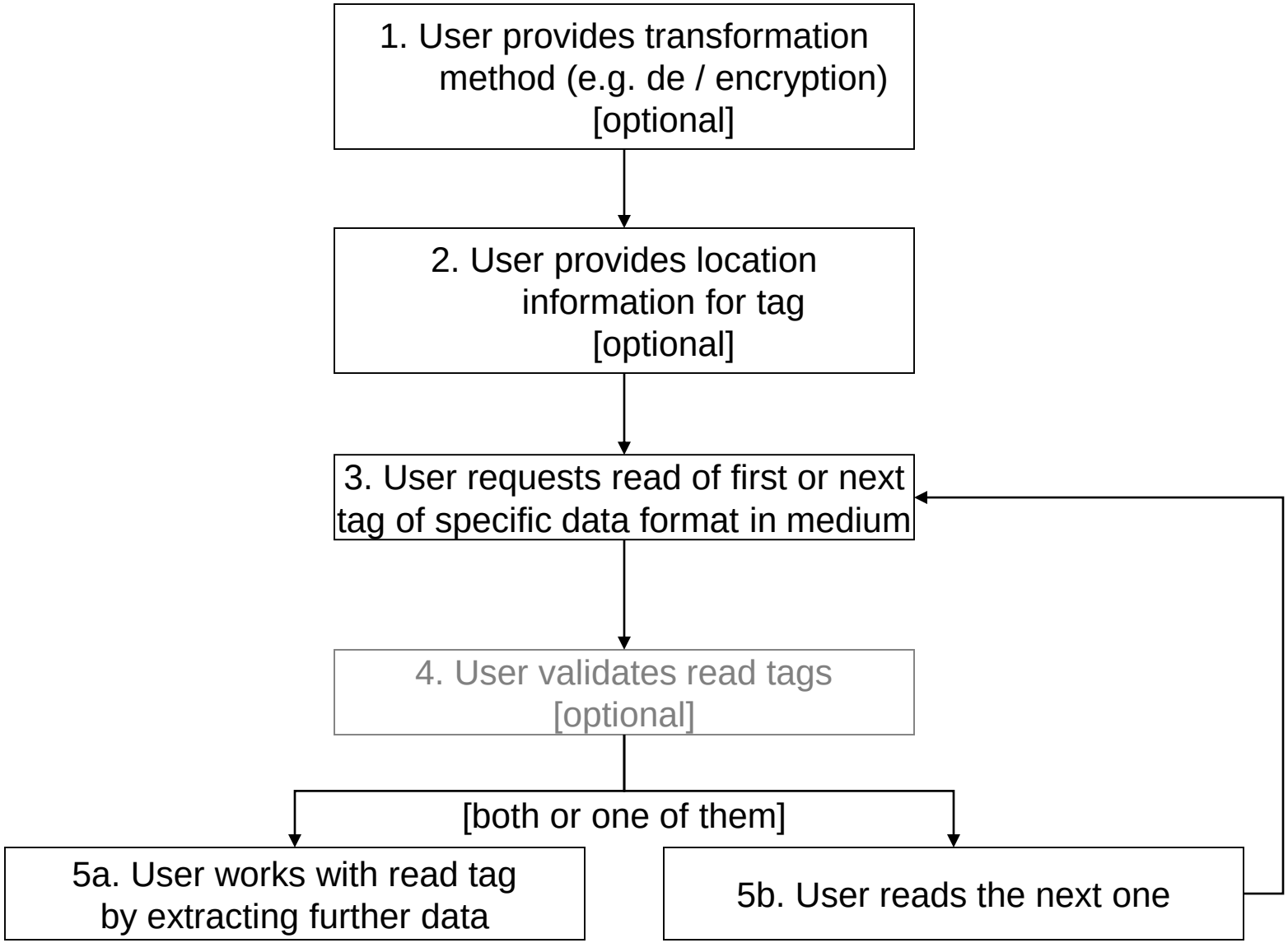
III_ExampleDataBlockHierarchy.pdf ##SIZE=[95;80]##



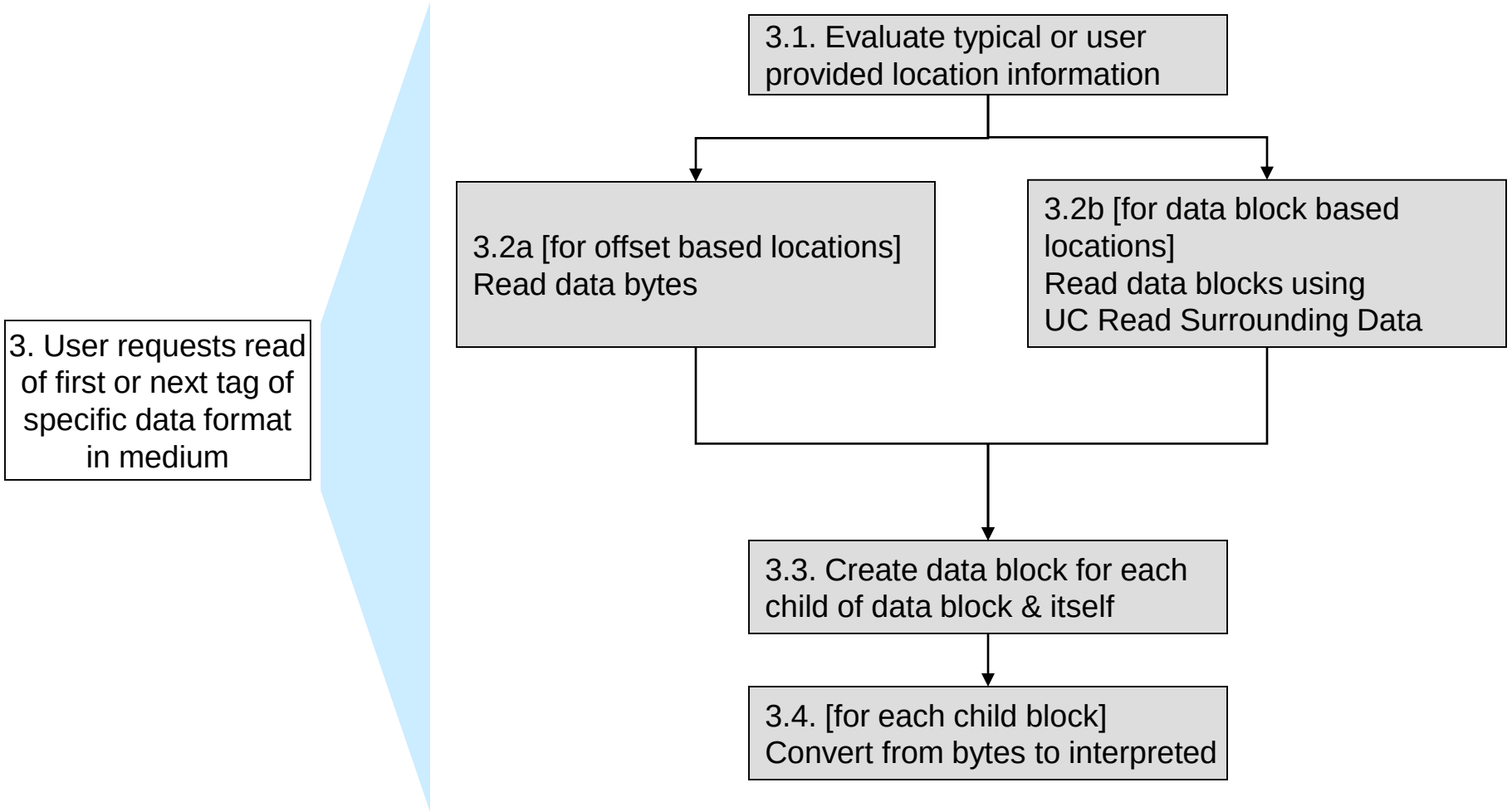
III_ReadingDataBlocks.pdf ##SIZE=[100;100]##



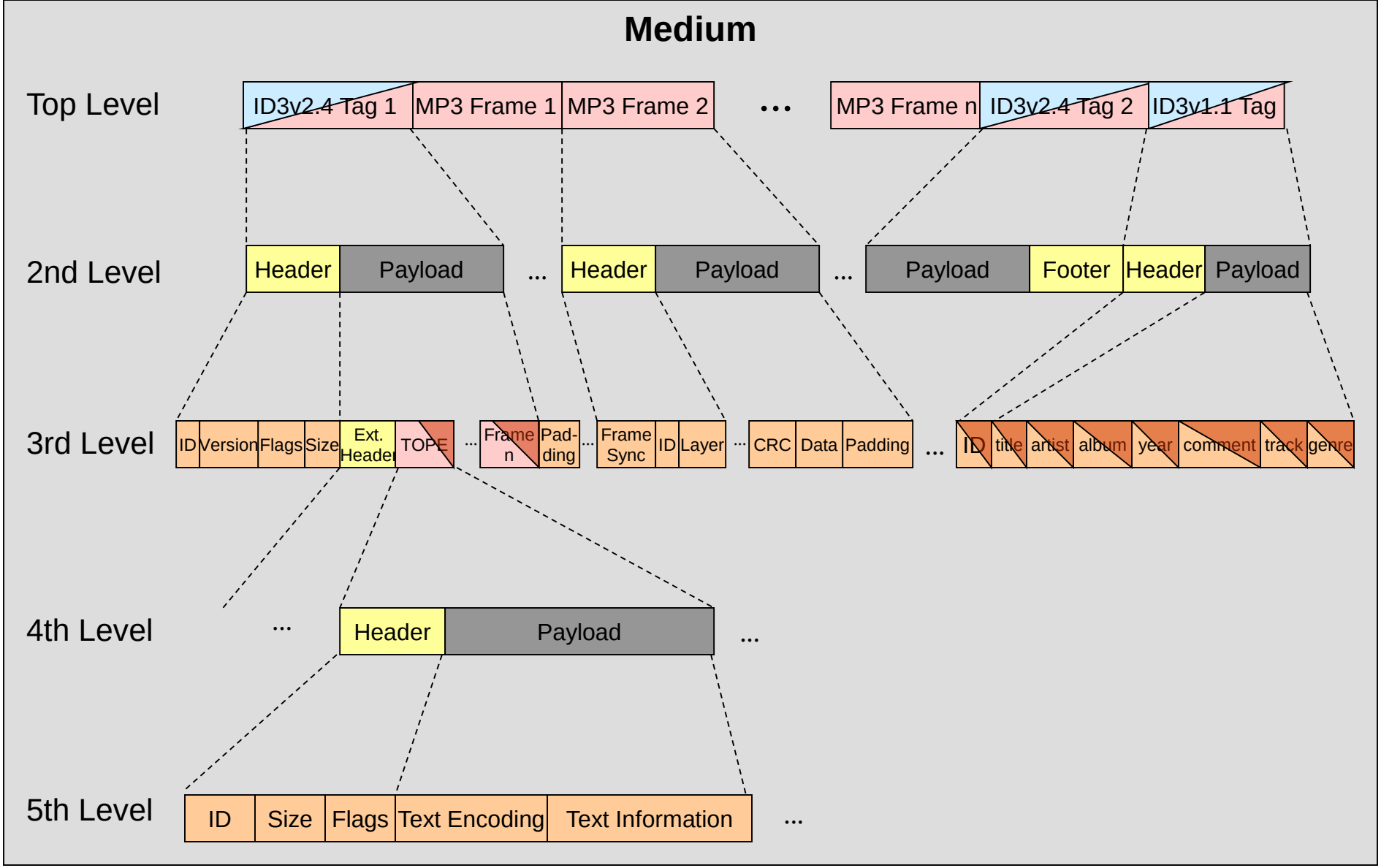
III_ReadingDataBlocksDetailed.pdf ##SIZE=[100;100]##



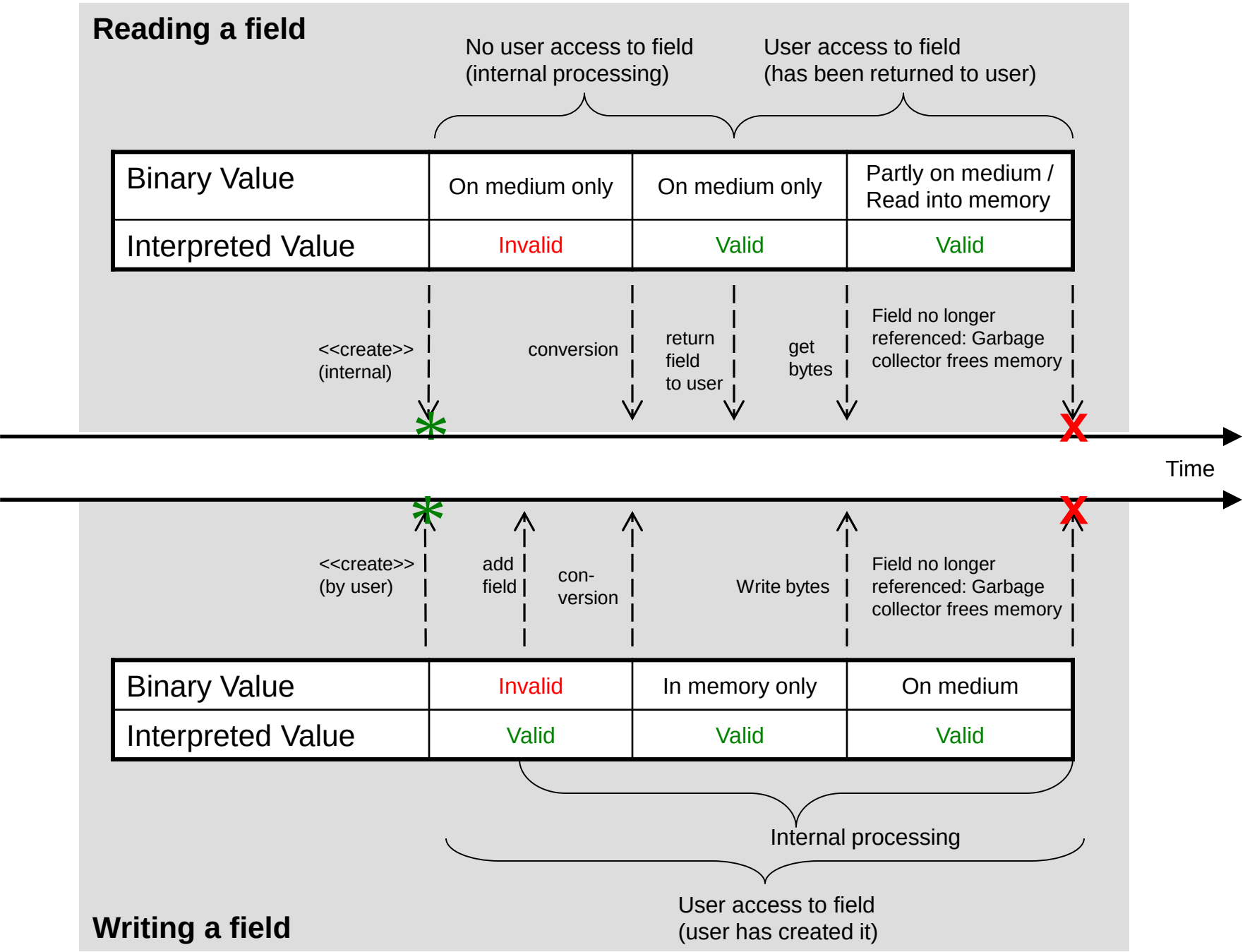
III_ReadingMetadata.pdf ##SIZE=[100;100]##



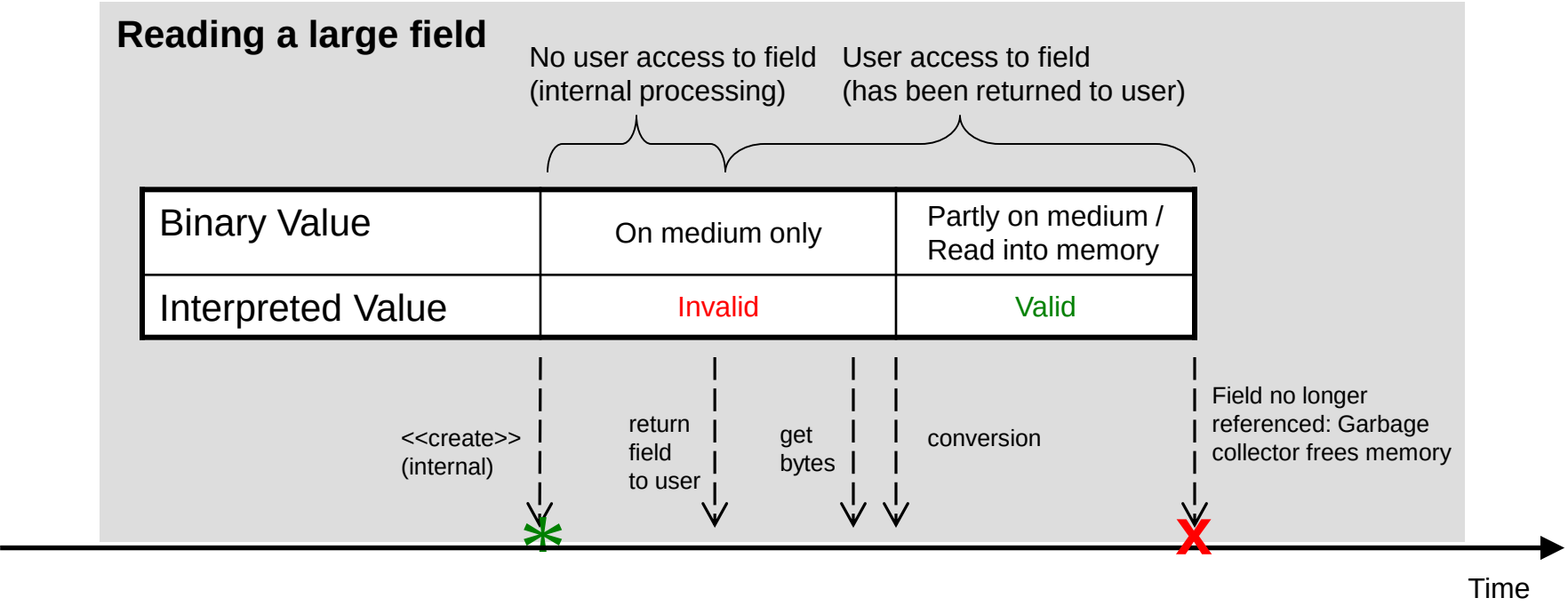
III_ReadingMetadataDetailed.pdf ##SIZE=[100;100]##



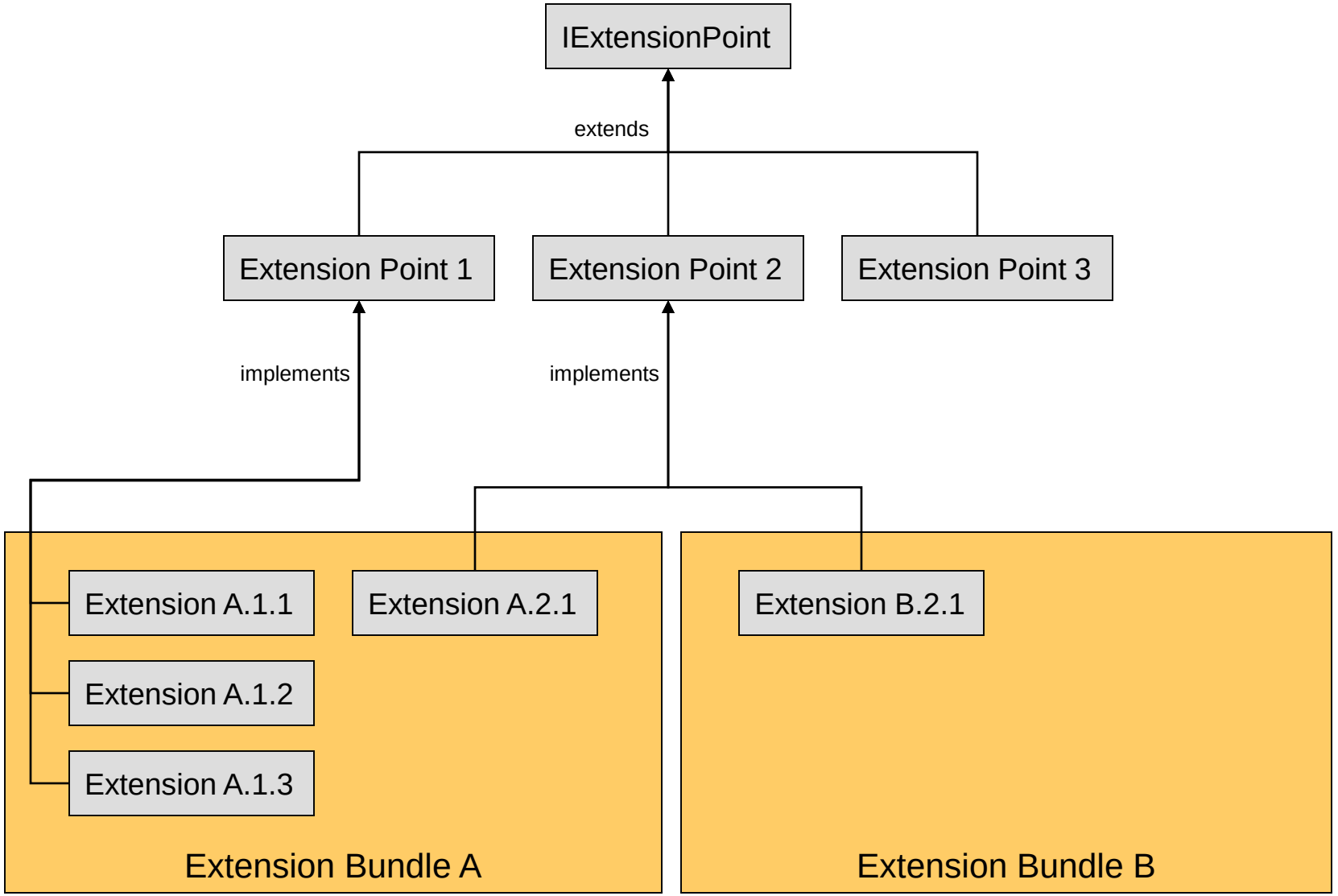
III_DataBlockStructure.pdf ##SIZE=[100;95]##



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



III_LazyFieldLifeCycle.pdf ##SIZE=[95;50]##

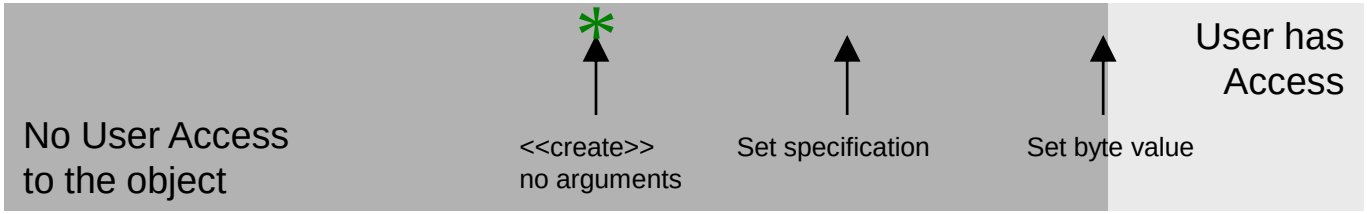


III_ExtensionBundles.pdf ##SIZE=[95;80]##

Value States

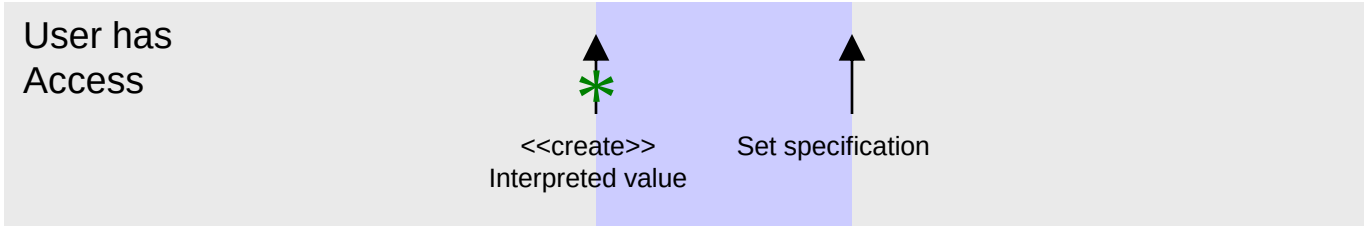
Read

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

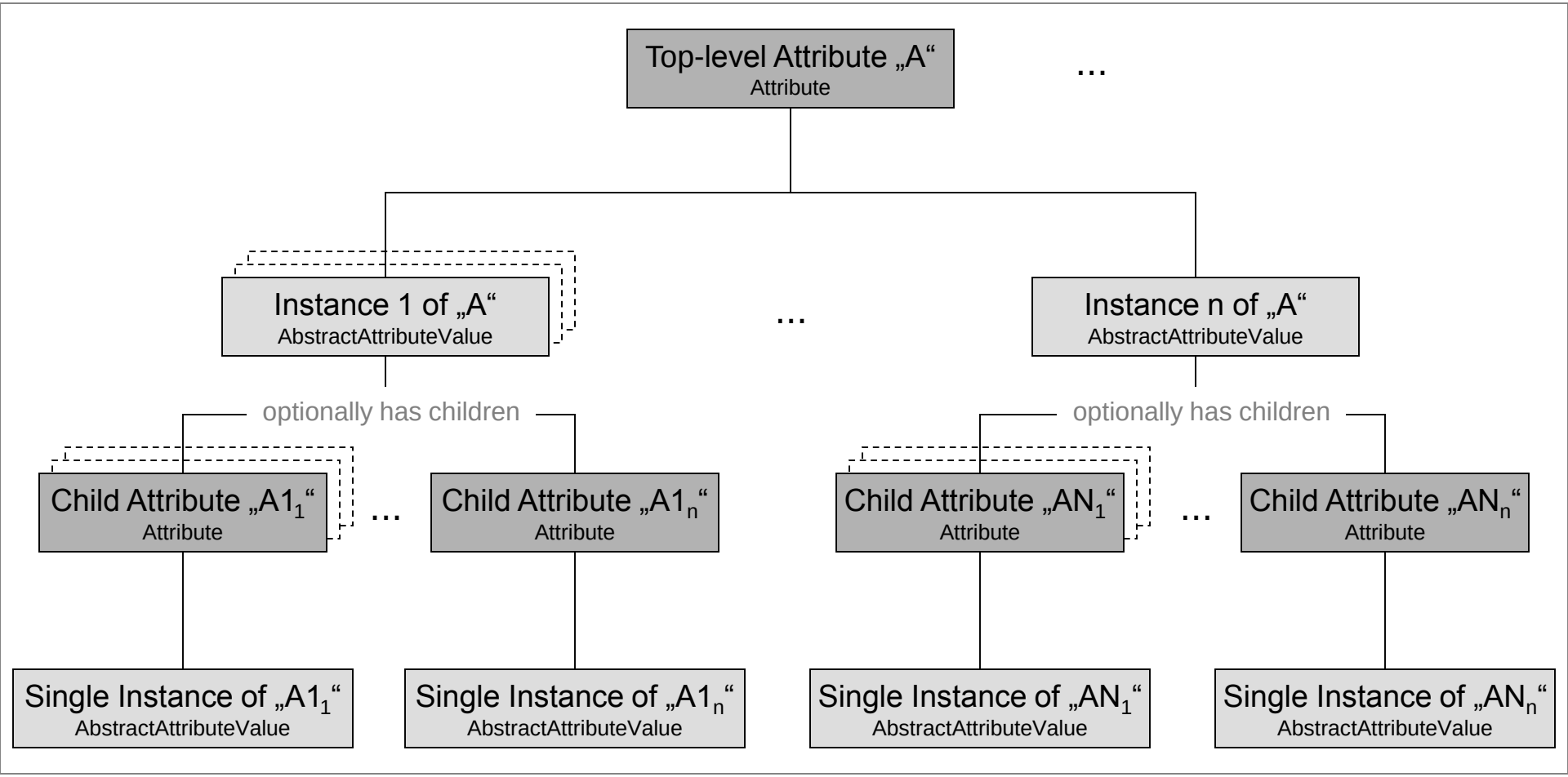


Write

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

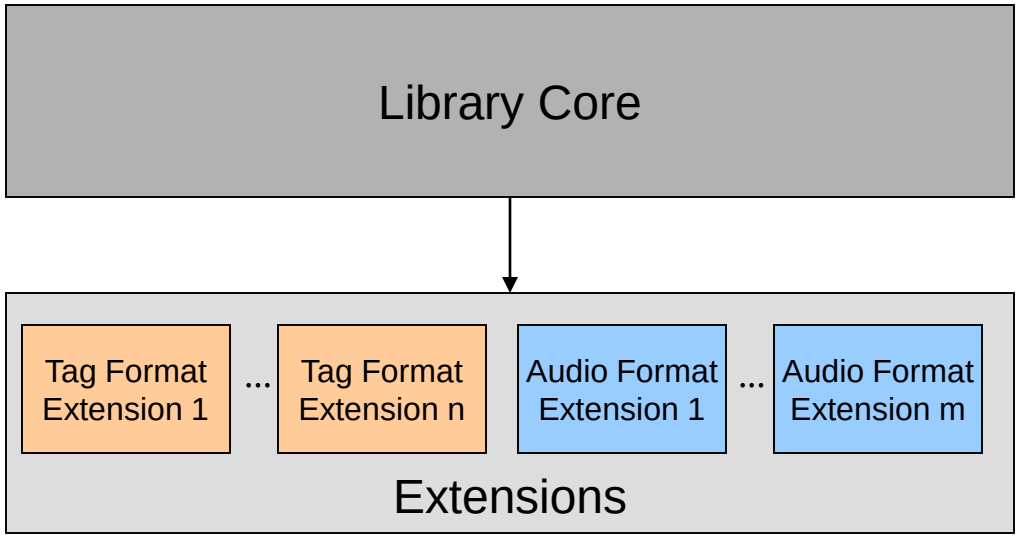


Attribute Hierarchy

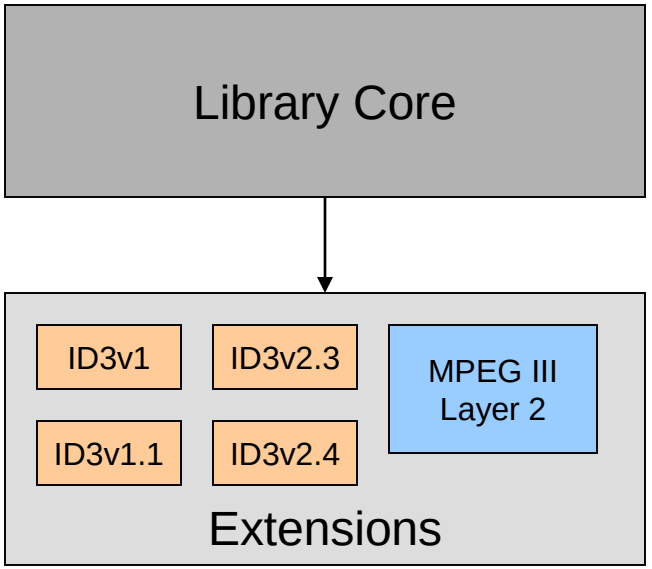


Library Structure

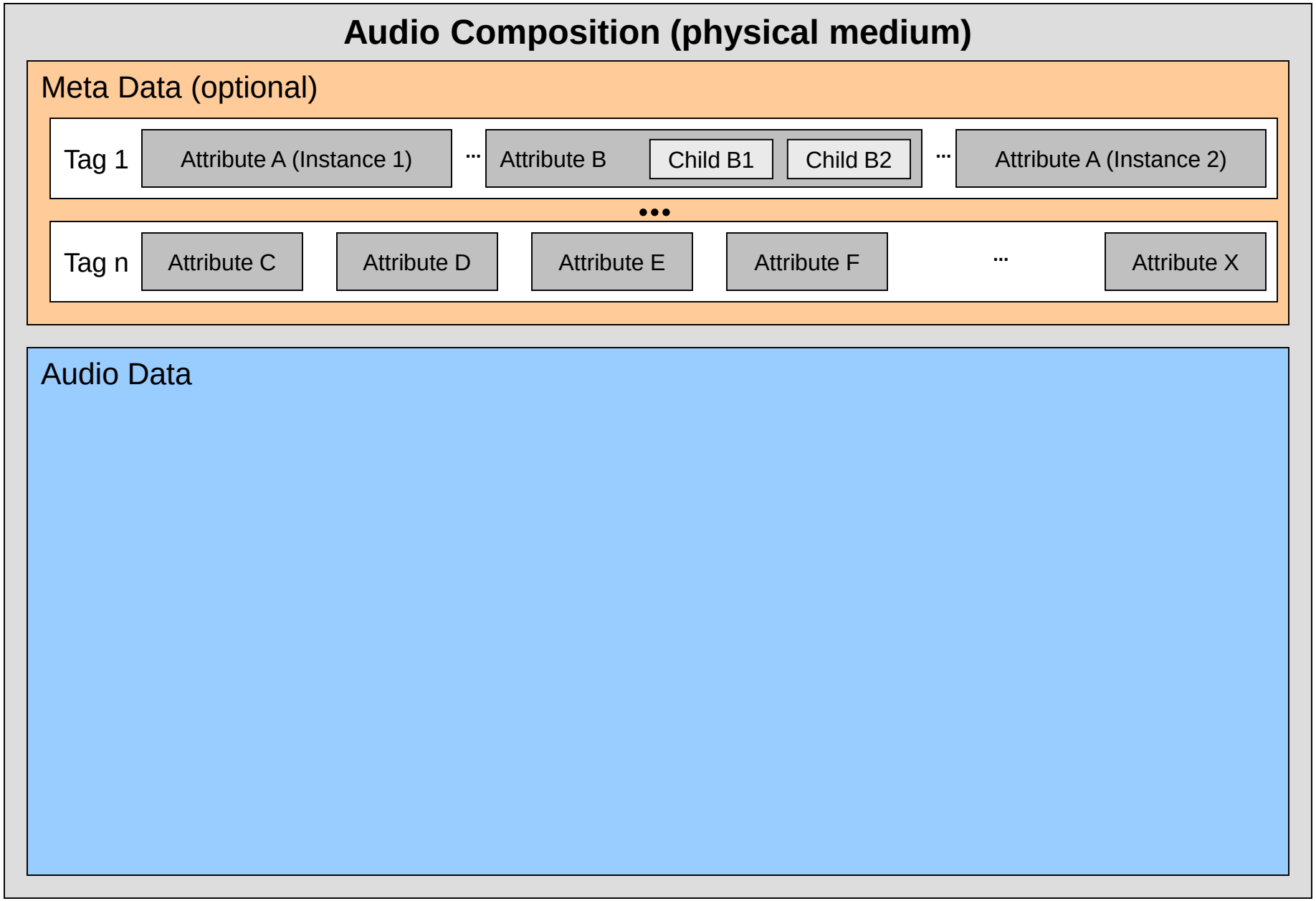
Basic concept



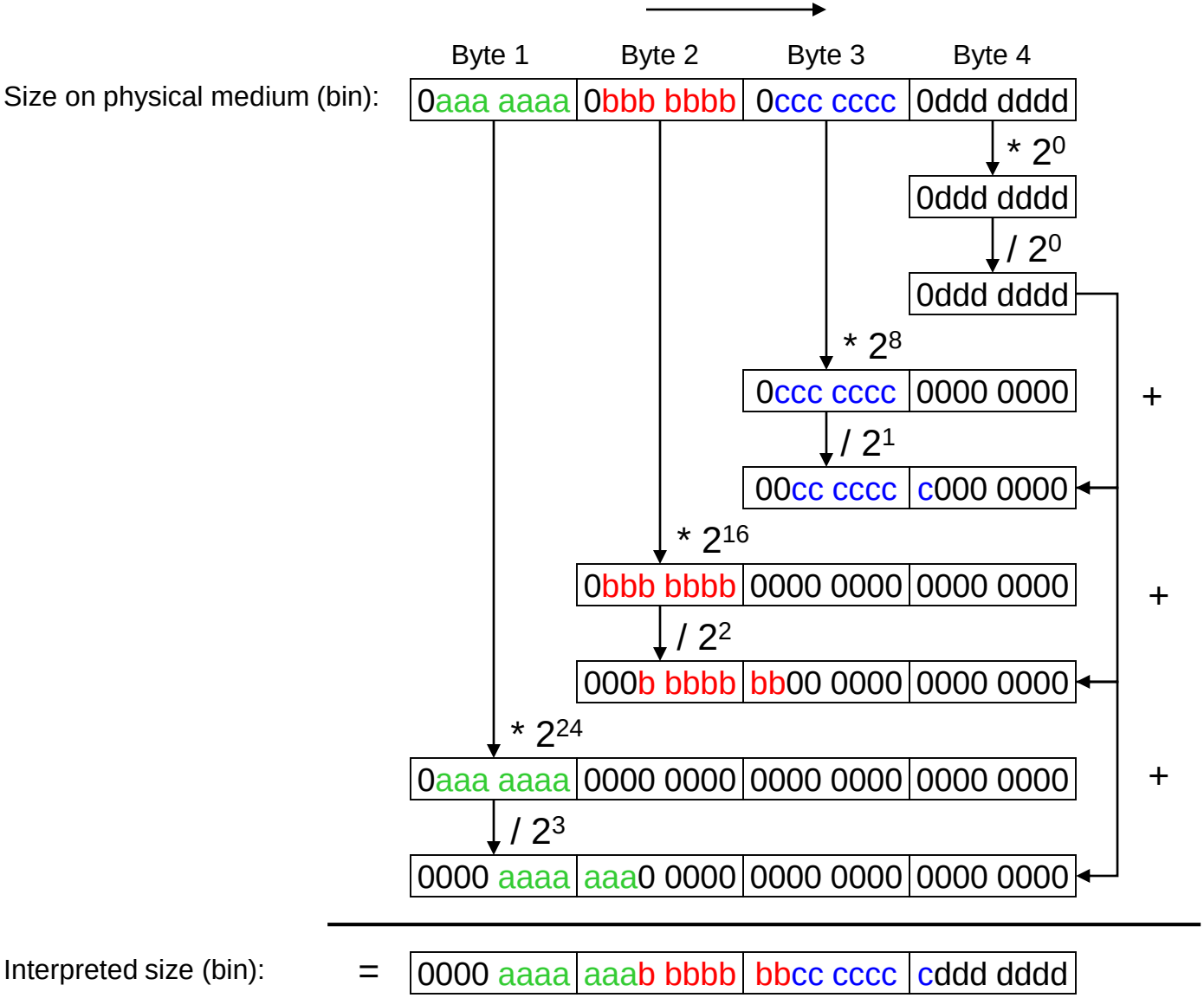
Extensions contained in v0.5 bundle



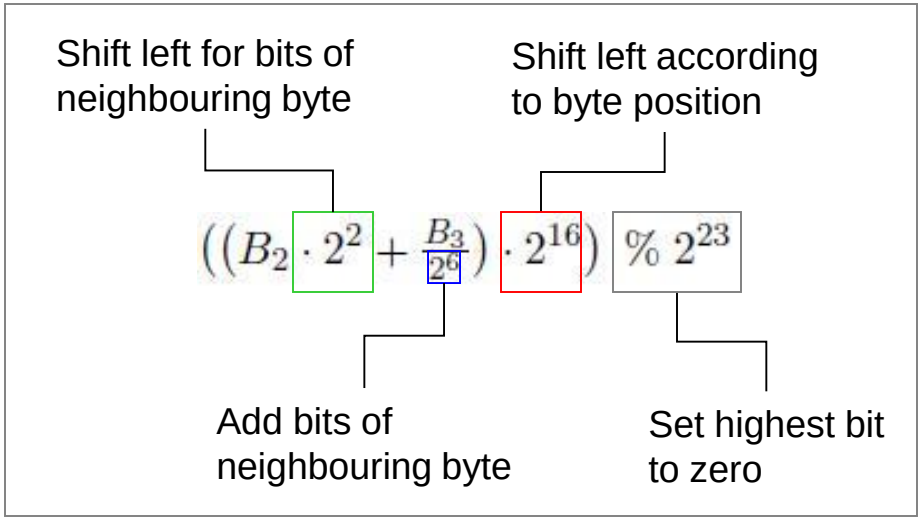
Audio Composition Structure

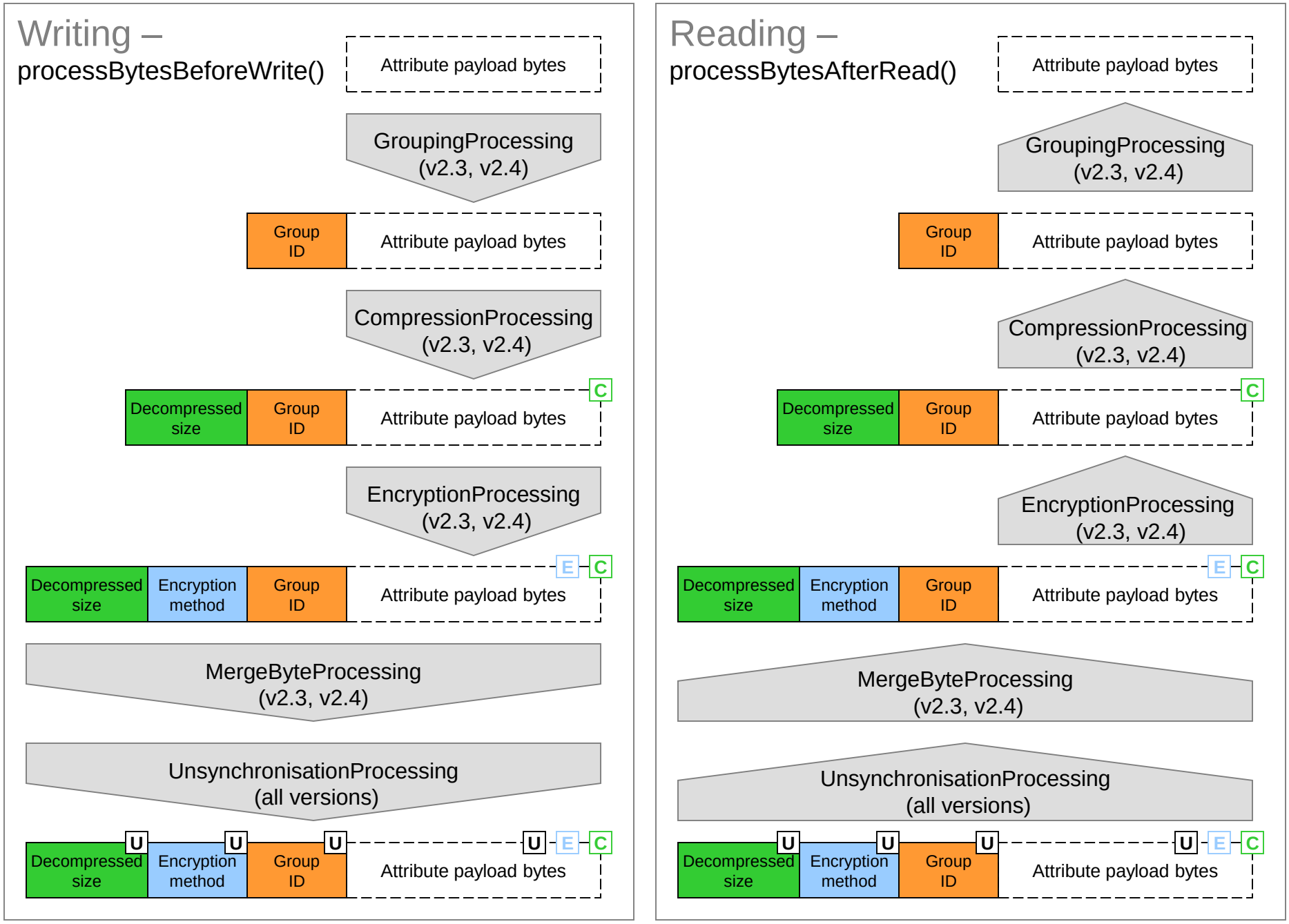


ID3v2 Size Interpretation After Reading



Formula for retrieving ID3v2 size to write




Writing –
processBytesBeforeWrite()
Attribute payload bytes
GroupingProcessing
(v2.3, v2.4)
Group ID
Attribute payload bytes
CompressionProcessing
(v2.3, v2.4)
Decompressed size
Group ID
Attribute payload bytes
C
EncryptionProcessing
(v2.3, v2.4)
Decompressed size
Encryption method
Group ID
Attribute payload bytes
E
C
MergeByteProcessing
(v2.3, v2.4)
UnsynchronisationProcessing
(all versions)
Decompressed size
Encryption method
Group ID
Attribute payload bytes
U
U
U
U
E
C
Reading –
processBytesAfterRead()
Attribute payload bytes
GroupingProcessing
(v2.3, v2.4)
Group ID
Attribute payload bytes
CompressionProcessing
(v2.3, v2.4)
Decompressed size
Group ID
Attribute payload bytes
C
EncryptionProcessing
(v2.3, v2.4)
Decompressed size
Encryption method
Group ID
Attribute payload bytes
E
C
MergeByteProcessing
(v2.3, v2.4)
UnsynchronisationProcessing
(all versions)
Decompressed size
Encryption method
Group ID
Attribute payload bytes
U
U
U
U
E
C

Example Flag Spec

Flag Bytes

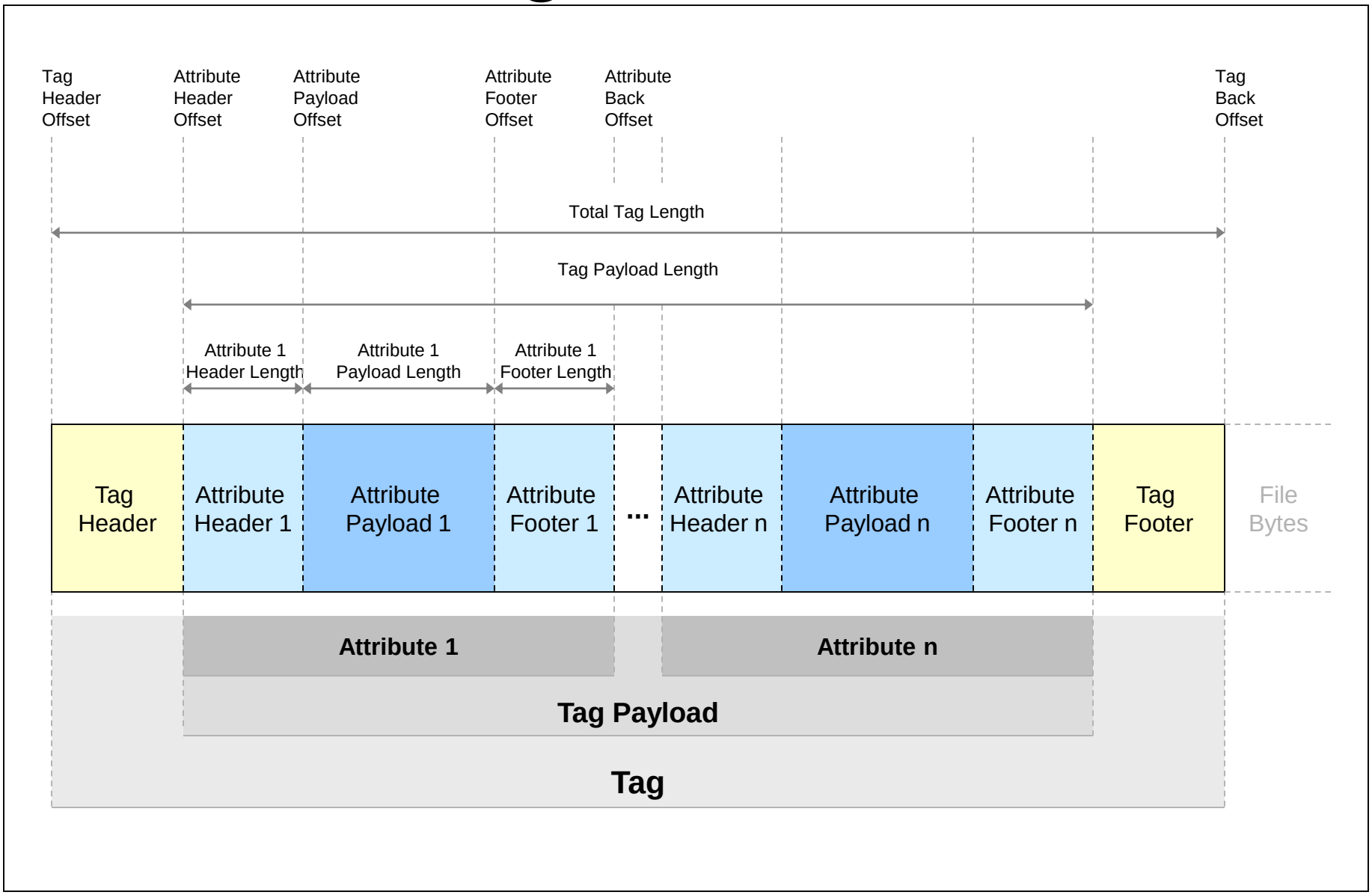
abc0 0000

Byte length = 1

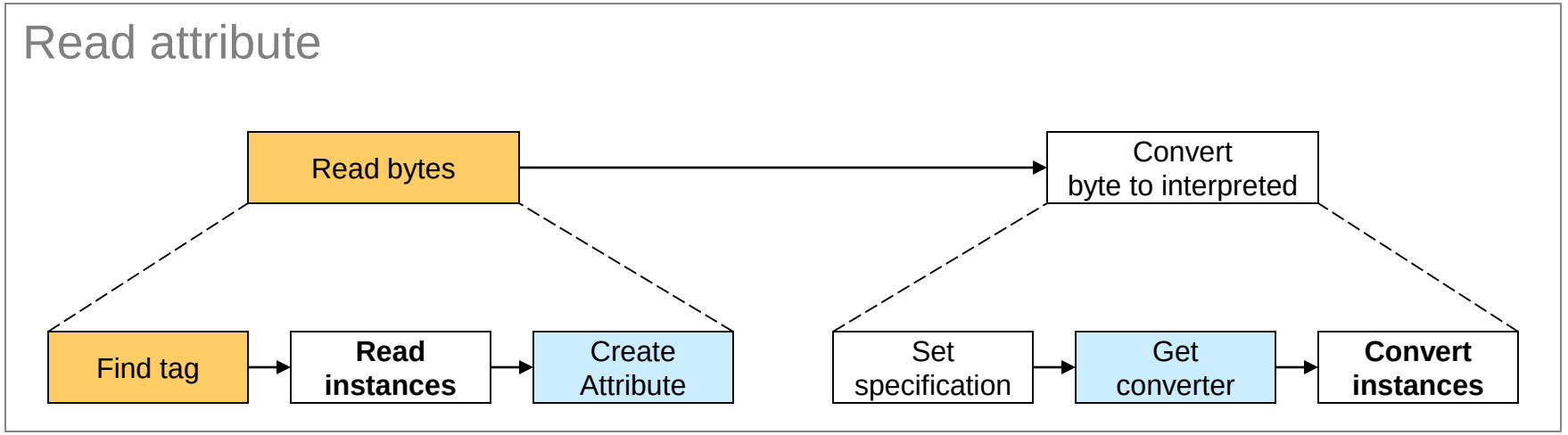
Byte order = Big Endian

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

Tag Structure

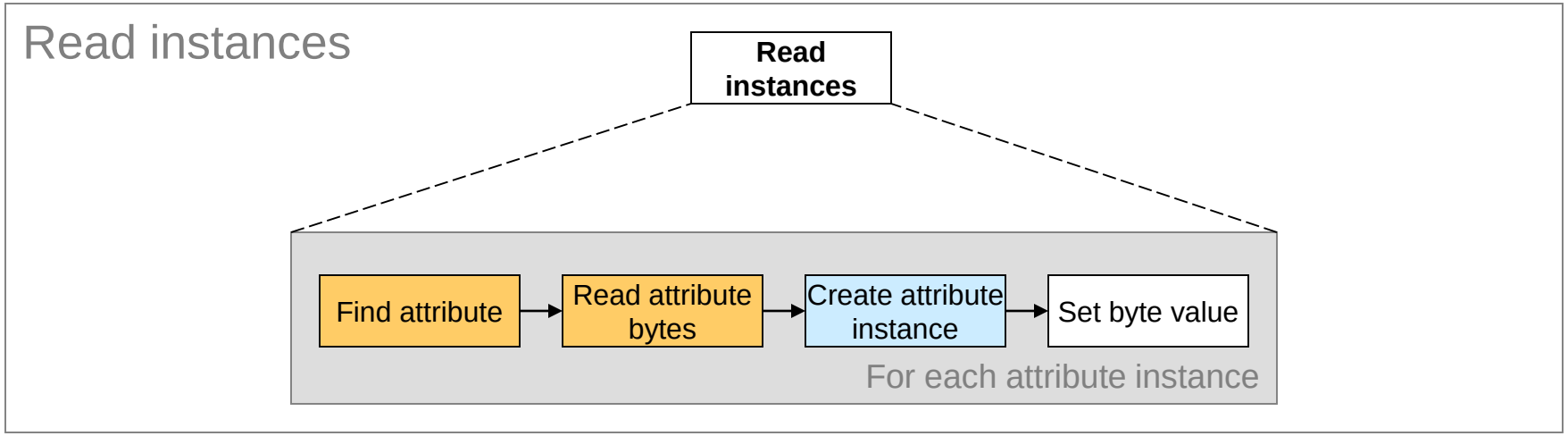


Read attribute



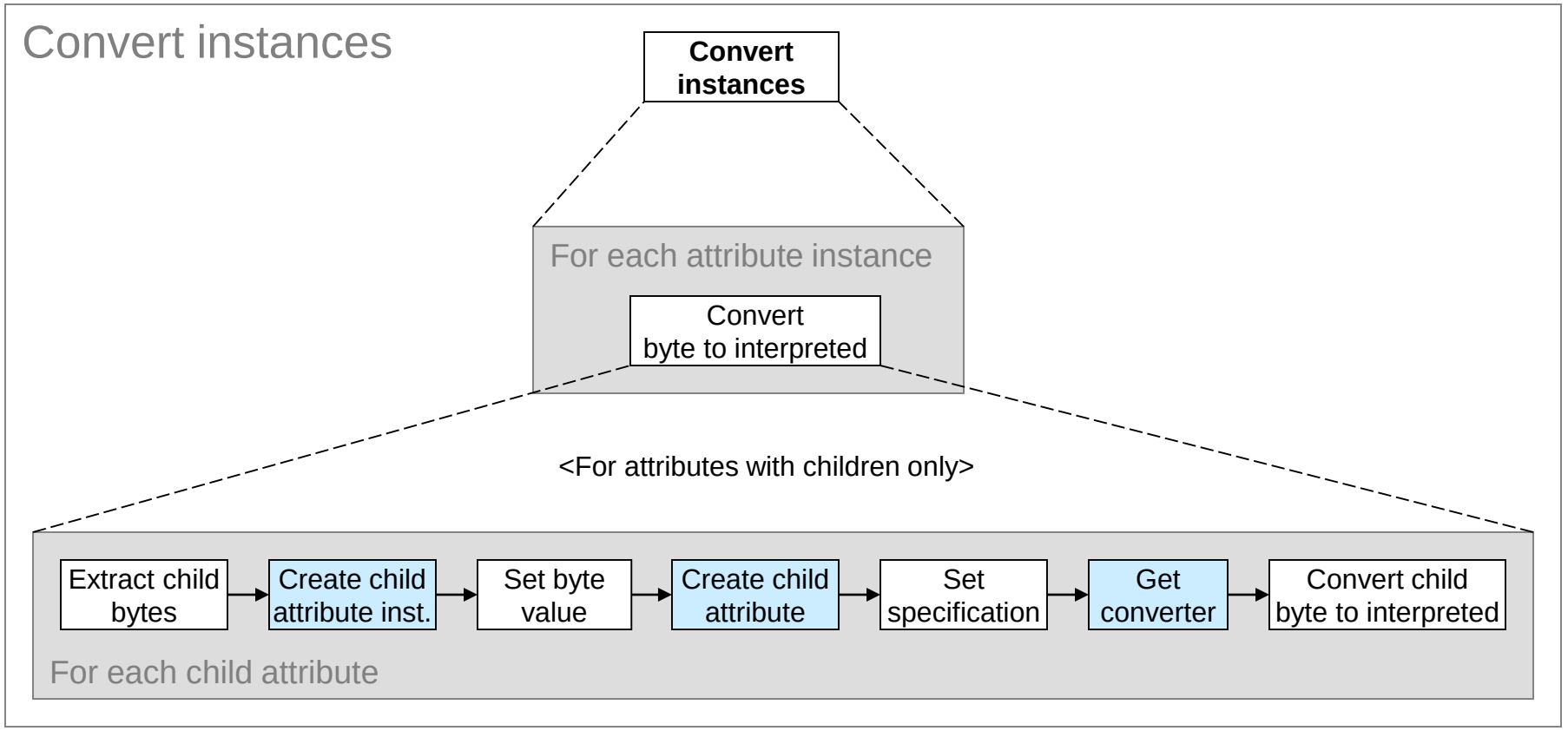
: Object creation / retrieval
: Access to physical medium
: Other action
: Action with sub-steps detailed on further figure

Read instances



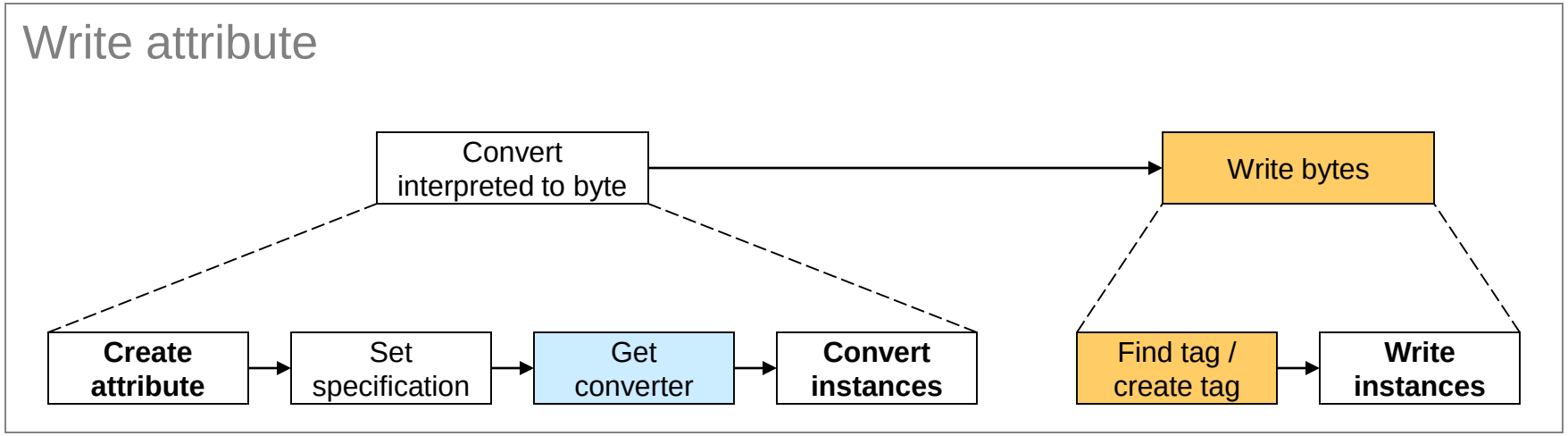
: Object creation / retrieval
: Access to physical medium
: Other action
: Action with sub-steps detailed on further figure

Convert instances (Reading)



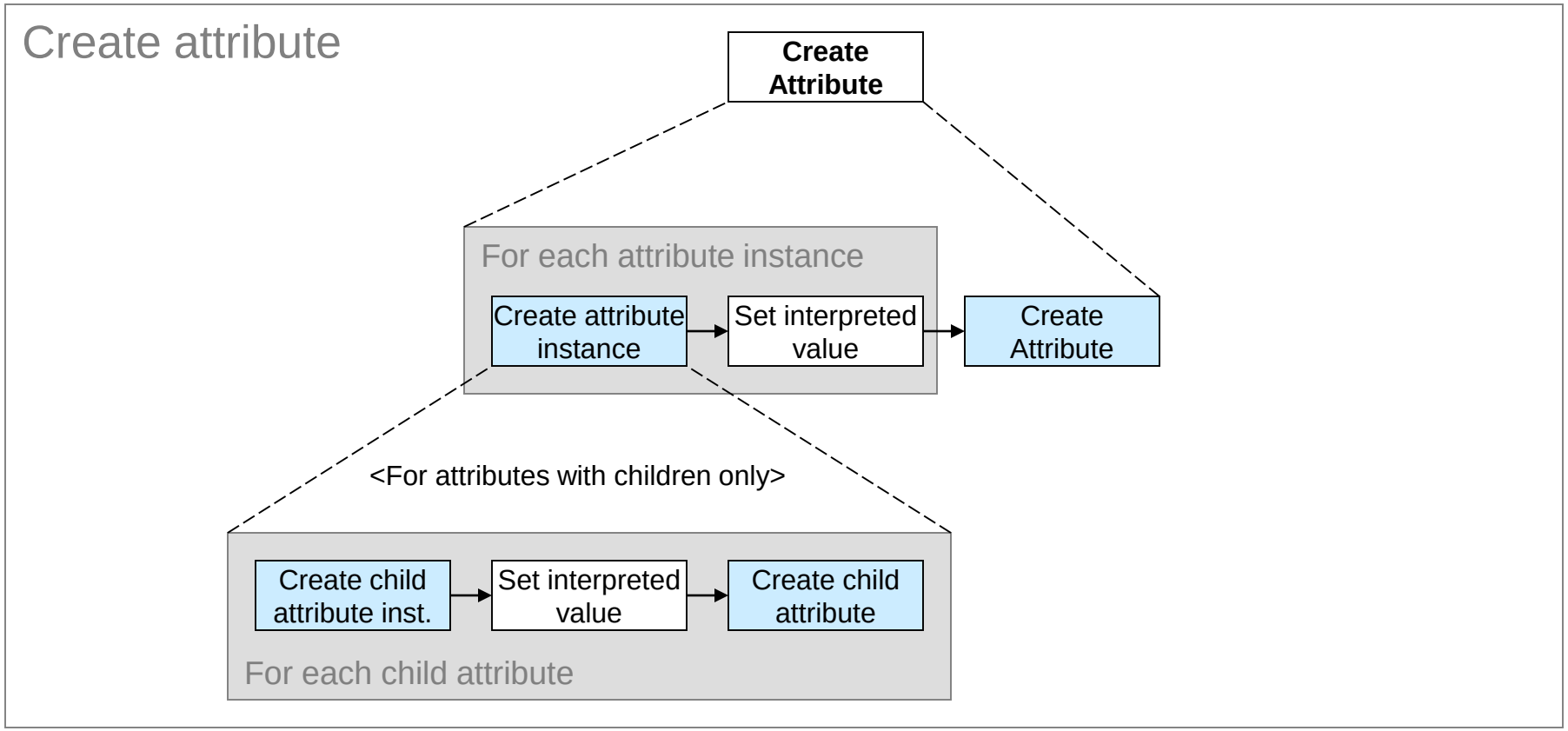
: Object creation / retrieval
: Access to physical medium
: Other action
: Action with sub-steps detailed on further figure

Write attribute



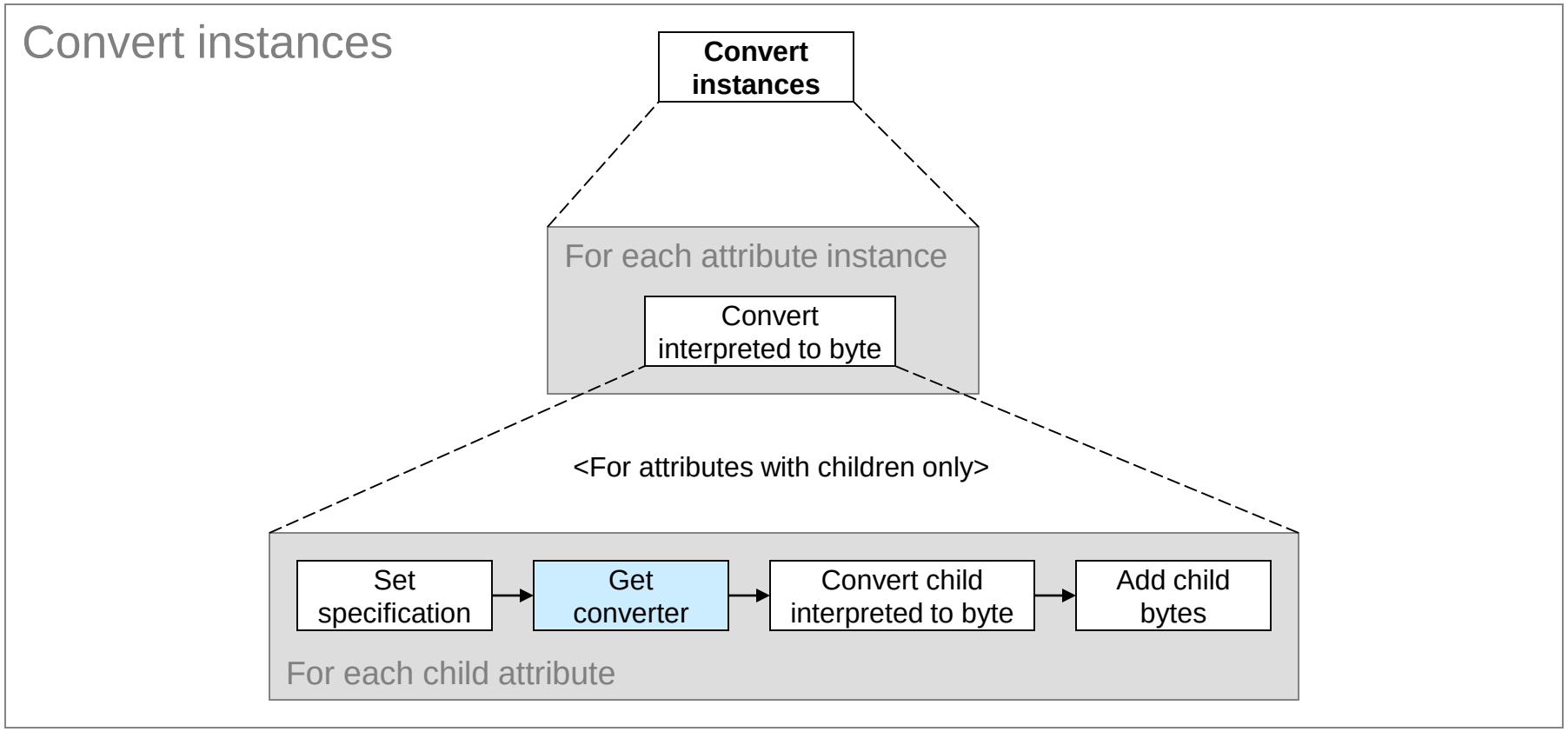
: Object creation / retrieval
: Access to physical medium
: Other action
: Action with sub-steps detailed on further figure

Create attribute (Writing)



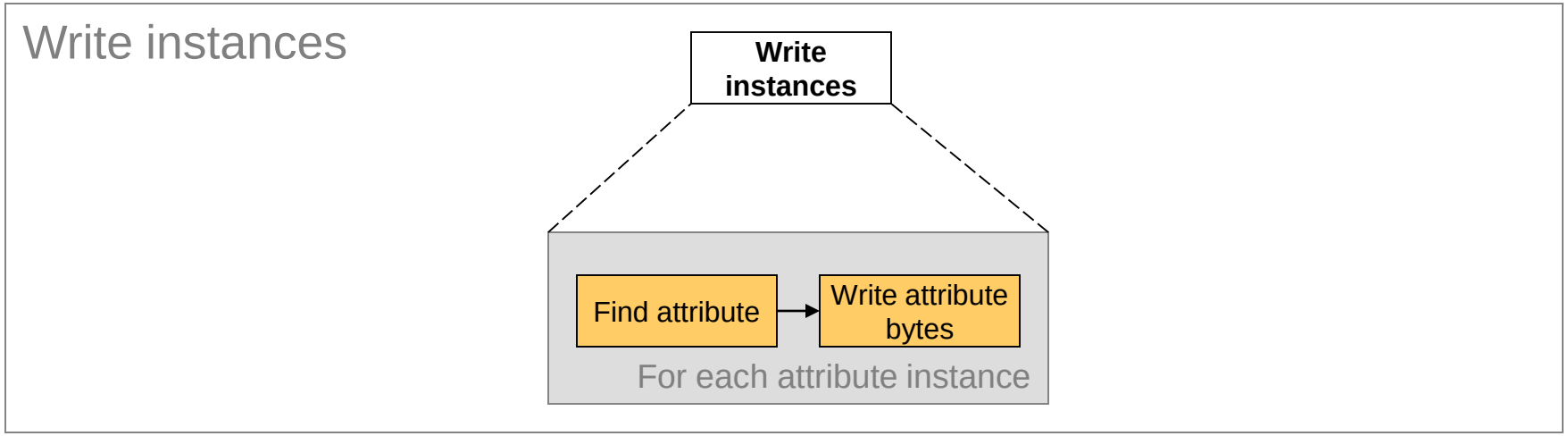
: Object creation / retrieval
: Access to physical medium
: Other action
: Action with sub-steps detailed on further figure

Convert instances (Writing)



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

Write instances



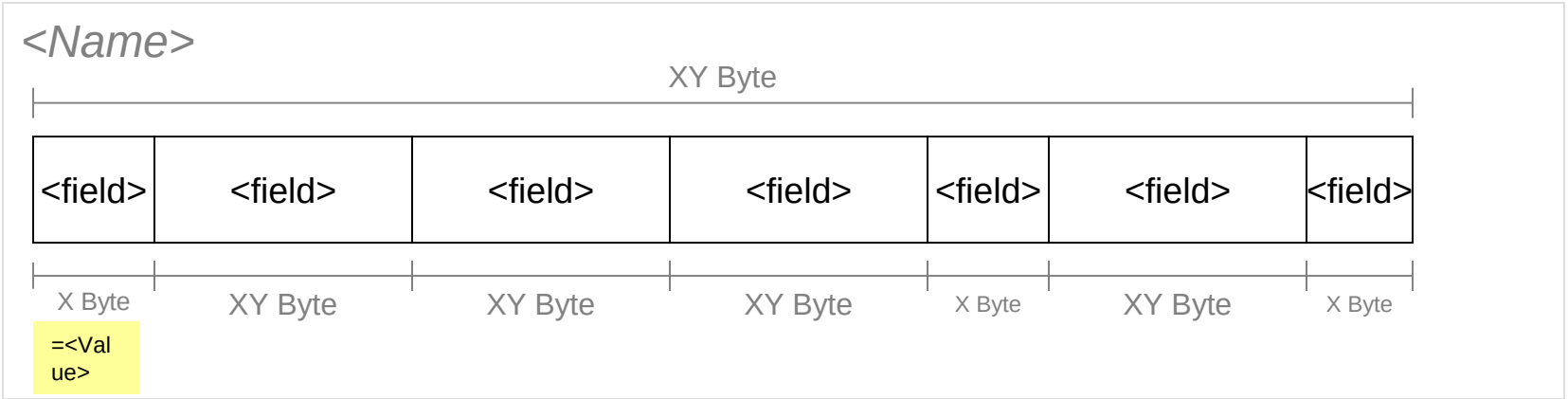
: Object creation / retrieval
: Access to physical medium
: Other action
: Action with sub-steps detailed on further figure

…

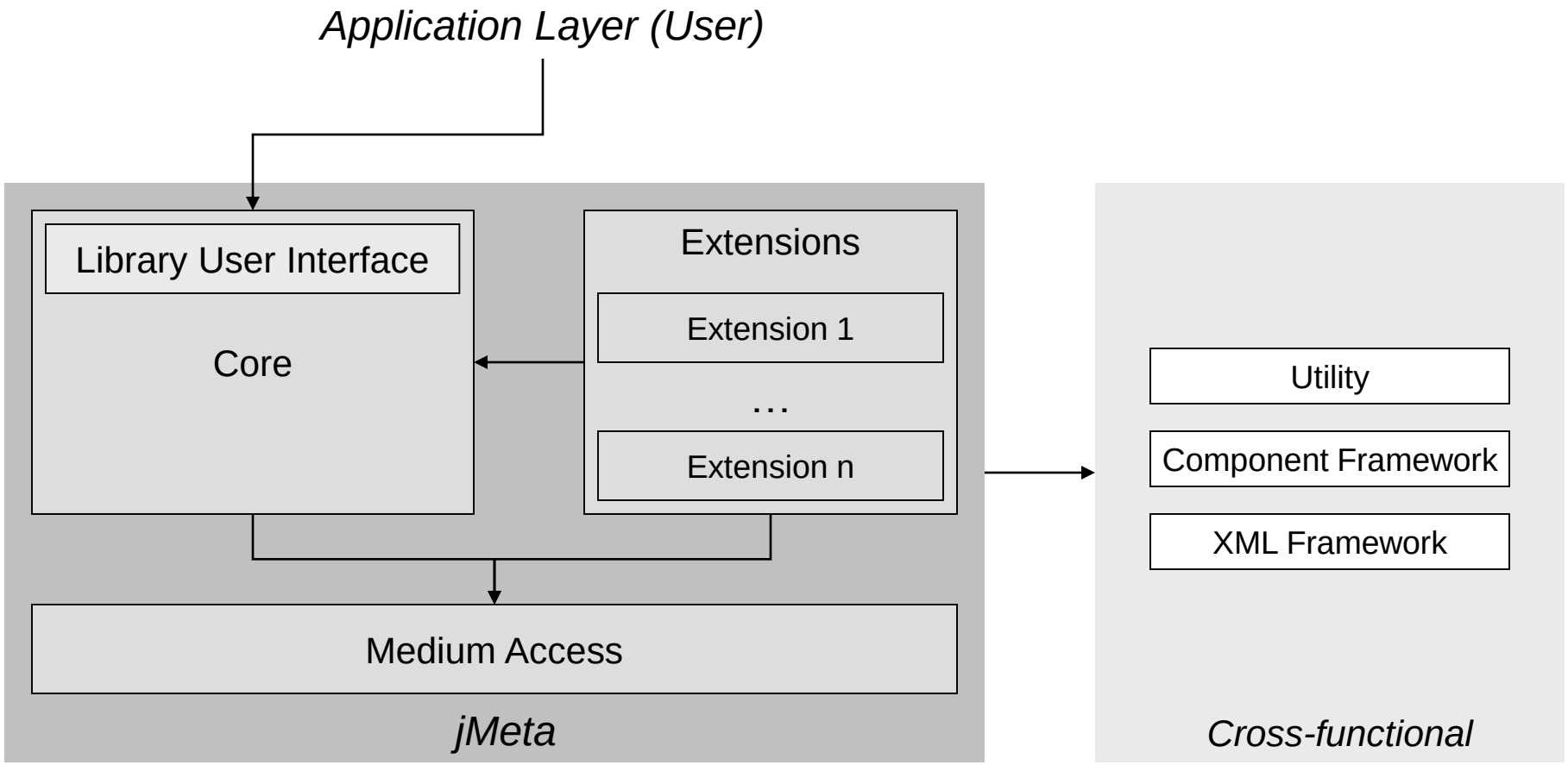
Legend

Hallo

Hallo



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


Application Layer (User)
Library User Interface
Core
Extensions
Extension 1
…
Extension n
Medium Access
jMeta
Utility
Component Framework
XML Framework
Cross-functional

ALT

Template

Hallo