

CDM

Package in package 'Model'

CDM

Version 1.0 Phase 1.0 Proposed

Clumsiest Information created on 2018/5/13. Last modified 2018/5/16

CDM_AuIA diagram

Entity Relationship diagram in package 'CDM'

CDM_AuIA

Version 1.0

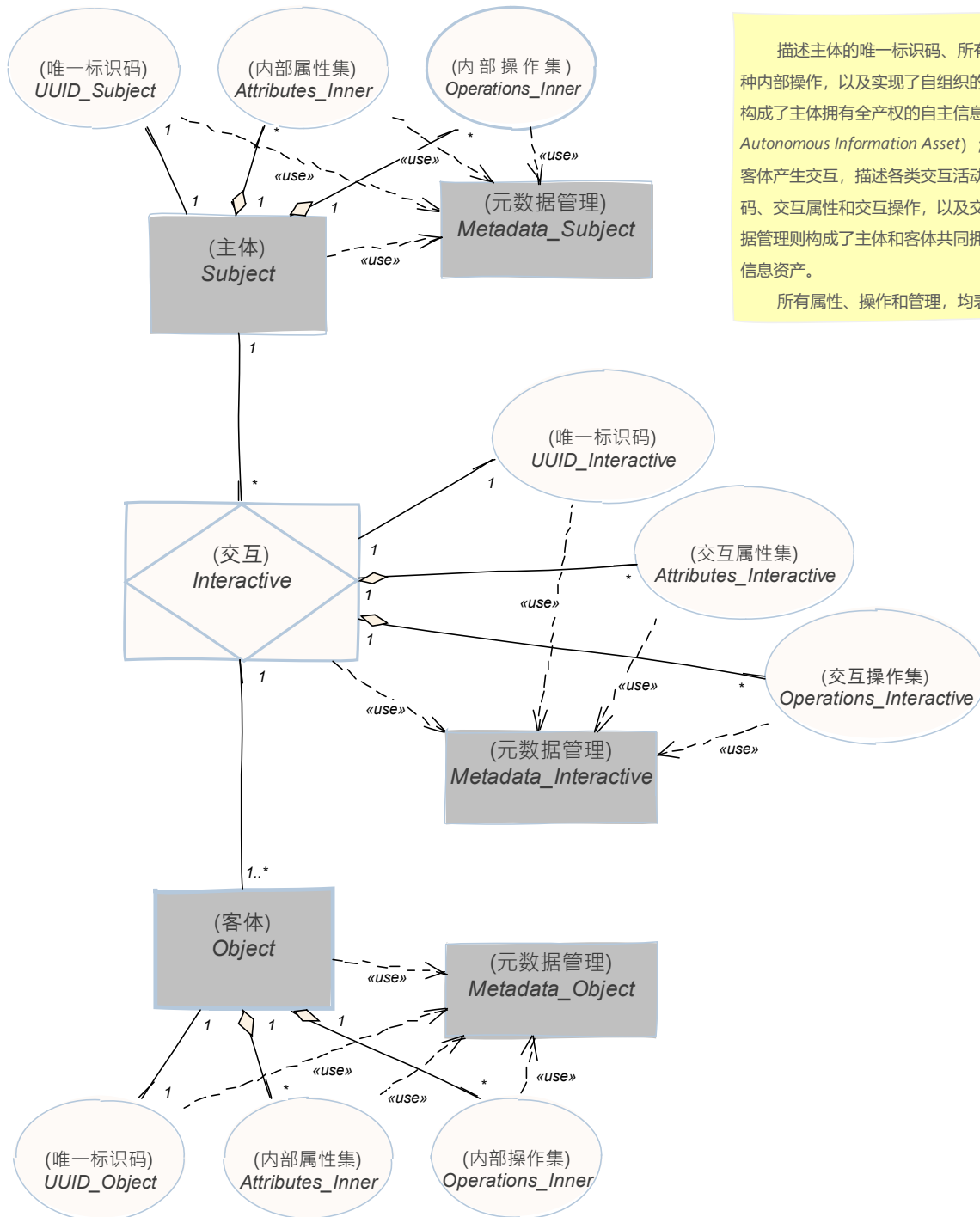
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The CDM (Conceptual Data Model) Diagram of AulA (Autonomous Information Asset) in the Blockchain-Application Project.

By Jeephy Ji

 [D:\ProjectBA\Data Modeling\CDM_AulA.pdf](#)

名称: CDM_AulA
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描述主体的唯一标识码、所有内部属性和各种内部操作，以及实现了自组织的元数据管理，构成了主体拥有全产权的自主信息资产 (AulA, Autonomous Information Asset)；而主体与外部客体产生交互，描述各类交互活动的唯一标识码、交互属性和交互操作，以及交互活动的元数据管理则构成了主体和客体共同拥有产权的自主信息资产。

所有属性、操作和管理，均表现为数据。

Figure 1: CDM_AulA

注释

注释 *in package 'CDM'*

The CDM (Conceptual Data Model) Diagram of AuIA (Autonomous Information Asset) in the BlockChain-Application Project.

By Jeephy Ji

注释

Version 1.0 Phase 1.0 Proposed

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Extends

注释

注释 *in package 'CDM'*

描述主体的唯一标识码、所有内部属性和各种内部操作，以及实现了自组织的元数据管理，构成了主体拥有全产权的自主信息资产（AuIA, Autonomous Information Asset）；而主体与外部客体产生交互，描述各类交互活动的唯一标识码、交互属性和交互操作，以及交互活动的元数据管理则构成了主体和客体共同拥有产权的自主信息资产。

所有属性、操作和管理，均表现为数据。

注释

Version 1.0 Phase 1.0 Proposed

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Extends

文本

文本 *in package 'CDM'*

文本

Version 1.0 Phase 1.0 Proposed

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Extends

D:\ProjectBA\Data Modeling\CDM_AuIA.pdf

文本 *in package 'CDM'*

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Alias D:\ProjectBA\Data Modeling\CDM_AuIA.pdf


Extends

Attributes_Inner


ERD_Attribute «ERD_Attribute» *in package 'CDM'*

Attributes_Inner
Version 1.0 Phase 1.0 Proposed
Clumsiest Information created on 2018/5/13. Last modified 2018/5/24
Alias 内部属性集

CONNECTORS

 依赖 «use» 起始 -> 目标
From: Attributes_Inner : ERD_Attribute, Public
To: Metadata_Object : ERD_Entity, Public

ASSOCIATIONS

 ERD_Connector (direction: 不指定的) «ERD_Connector»


Source: Public (ERD_Entity) Object «ERD_Entity»	Target: Public (ERD_Attribute) Attributes_Inner
Cardinality: [1]	«ERD_Attribute»
	Cardinality: [*]

Attributes_Inner


ERD_Attribute «ERD_Attribute» in package 'CDM'

Attributes_Inner
Version 1.0 Phase 1.0 Proposed
Clumsiest Information created on 2018/5/13. Last modified 2018/5/24
Alias 内部属性集

CONNECTORS

 依赖 «use» 起始 -> 目标
From: Attributes_Inner : ERD_Attribute, Public
To: Metadata_Subject : ERD_Entity, Public

ASSOCIATIONS

 ERD_Connector (direction: 起始 -> 目标) «ERD_Connector»

Source: Public (ERD_Entity) Subject «ERD_Entity»	Target: Public (ERD_Attribute) Attributes_Inner
Cardinality: [1]	«ERD_Attribute»
	Cardinality: [*]

Attributes_Interactive

ERD_Attribute «ERD_Attribute» in package 'CDM'

Attributes_Interactive
Version 1.0 Phase 1.0 Proposed
Clumsiest Information created on 2018/5/13. Last modified 2018/6/14
Alias 交互属性集

CONNECTORS



依赖 «use» 起始 -> 目标

From: Attributes_Interactive : ERD_Attribute, Public

To: Metadata_Interactive : ERD_Entity, Public

ASSOCIATIONS



ERD_Connector (direction: 不指定的) «ERD_Connector»

Source: Public (ERD_naryAssociation) Interactive
«ERD_naryAssociation»

Cardinality: [1]

Target: Public (ERD_Attribute)
Attributes_Interactive «ERD_Attribute»

Cardinality: [*]

Interactive

ERD_naryAssociation «ERD_naryAssociation» in package 'CDM'

(交互活动)

Interactive

Version 1.0 Phase 1.0 Proposed

Clumsiest Information created on 2018/5/13. Last modified 2018/6/14

Alias 交互

CONNECTORS



依赖 «use» 起始 -> 目标

From: Interactive : ERD_naryAssociation, Public

To: Metadata_Interactive : ERD_Entity, Public

ASSOCIATIONS



ERD_Connector (direction: 不指定的) «ERD_Connector»

Source: Public (ERD_naryAssociation) Interactive
«ERD_naryAssociation»

Cardinality: [1]

Target: Public (ERD_Attribute)
Operations_Interactive «ERD_Attribute»

Cardinality: [*]



ERD_Connector (direction: 不指定的) «ERD_Connector»

Source: Public (ERD_naryAssociation) Interactive
«ERD_naryAssociation»

Cardinality: [1]

Target: Public (ERD_Attribute) UUID_Interactive
«ERD_Attribute»

Cardinality: [1]



ERD_Connector (direction: 不指定的) «ERD_Connector»

Source: Public (ERD_naryAssociation) Interactive
«ERD_naryAssociation»

Cardinality: [1]

Target: Public (ERD_Attribute)
Attributes_Interactive «ERD_Attribute»

Cardinality: [*]







ERD_Connector (direction: 不指定的) «ERD_Connector»

ASSOCIATIONS	
Source: Public (ERD_Entity) Subject «ERD_Entity» Cardinality: [1]	Target: Public (ERD_naryAssociation) Interactive «ERD_naryAssociation» Cardinality: [*]
 ERD_Connector (direction: 起始 -> 目标) «ERD_Connector»	
Source: Public (ERD_Entity) Object «ERD_Entity» Cardinality: [1..*]	Target: Public (ERD_naryAssociation) Interactive «ERD_naryAssociation» Cardinality: [1]

Metadata_Interactive

ERD_Entity «ERD_Entity» in package 'CDM'

Metadata_Interactive
Version 1.0 Phase 1.0 Proposed
Clumsiest Information created on 2018/5/23. Last modified 2018/6/14
Alias 元数据管理

CONNECTORS	
 依赖 «use» 起始 -> 目标 From: UUID_Interactive : ERD_Attribute, Public To: Metadata_Interactive : ERD_Entity, Public	
 依赖 «use» 起始 -> 目标 From: Operations_Interactive : ERD_Attribute, Public To: Metadata_Interactive : ERD_Entity, Public	
 依赖 «use» 起始 -> 目标 From: Interactive : ERD_naryAssociation, Public To: Metadata_Interactive : ERD_Entity, Public	
 依赖 «use» 起始 -> 目标 From: Attributes_Interactive : ERD_Attribute, Public To: Metadata_Interactive : ERD_Entity, Public	

Metadata_Object

ERD_Entity «ERD_Entity» in package 'CDM'

Metadata_Object
Version 1.0 Phase 1.0 Proposed
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Alias 元数据管理

CONNECTORS

CONNECTORS



依赖 «use» 起始 -> 目标

From: Object : ERD_Entity, Public

To: Metadata_Object : ERD_Entity, Public



依赖 «use» 起始 -> 目标

From: UUID_Object : ERD_Attribute, Public

To: Metadata_Object : ERD_Entity, Public



依赖 «use» 起始 -> 目标

From: Attributes_Inner : ERD_Attribute, Public

To: Metadata_Object : ERD_Entity, Public



依赖 «use» 起始 -> 目标

From: Operations_Inner : ERD_Attribute, Public

To: Metadata_Object : ERD_Entity, Public

Metadata_Subject

ERD_Entity «ERD_Entity» in package 'CDM'

Metadata_Subject

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Alias 元数据管理

CONNECTORS



依赖 «use» 起始 -> 目标

From: UUID_Subject : ERD_Attribute, Public

To: Metadata_Subject : ERD_Entity, Public



依赖 «use» 起始 -> 目标

From: Operations_Inner : ERD_Attribute, Public

To: Metadata_Subject : ERD_Entity, Public



依赖 «use» 起始 -> 目标

From: Subject : ERD_Entity, Public

To: Metadata_Subject : ERD_Entity, Public



依赖 «use» 起始 -> 目标

From: Attributes_Inner : ERD_Attribute, Public


To: Metadata_Subject : ERD_Entity, Public

Object


ERD_Entity «ERD_Entity» in package 'CDM'


Object
Version 1.0 Phase 1.0 Proposed
Clumsiest Information created on 2018/5/13. Last modified 2018/5/16
Alias 客体


CONNECTORS


 依赖 «use» 起始 -> 目标
From: Object : ERD_Entity, Public
To: Metadata_Object : ERD_Entity, Public

ASSOCIATIONS

 ERD_Connector (direction: 起始 -> 目标) «ERD_Connector»
Source: Public (ERD_Entity) Object «ERD_Entity»
Cardinality: [1]
Target: Public (ERD_Attribute) UUID_Object
«ERD_Attribute»
Cardinality: [1]

 ERD_Connector (direction: 不指定的) «ERD_Connector»
Source: Public (ERD_Entity) Object «ERD_Entity»
Cardinality: [1]
Target: Public (ERD_Attribute) Attributes_Inner
«ERD_Attribute»
Cardinality: [*]

 ERD_Connector (direction: 起始 -> 目标) «ERD_Connector»
Source: Public (ERD_Entity) Object «ERD_Entity»
Cardinality: [1..*]
Target: Public (ERD_naryAssociation) Interactive
«ERD_naryAssociation»
Cardinality: [1]


 ERD_Connector (direction: 不指定的) «ERD_Connector»
Source: Public (ERD_Entity) Object «ERD_Entity»
Cardinality: [1]
Target: Public (ERD_Attribute) Operations_Inner
«ERD_Attribute»
Cardinality: [*]

Operations_Inner


ERD_Attribute «ERD_Attribute» in package 'CDM'

Operations_Inner
Version 1.0 Phase 1.0 Proposed
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Alias 内部操作集

CONNECTORS

 依赖 «use» 起始 -> 目标
From: Operations_Inner : ERD_Attribute, Public
To: Metadata_Object : ERD_Entity, Public

ASSOCIATIONS

 ERD_Connector (direction: 不指定的) «ERD_Connector»

Source: Public (ERD_Entity) Object «ERD_Entity»
Cardinality: [1]

Target: Public (ERD_Attribute) Operations_Inner
«ERD_Attribute»
Cardinality: [*]


Operations_Inner

ERD_Attribute «ERD_Attribute» in package 'CDM'

自有关系


Operations_Inner
Version 1.0 Phase 1.0 Proposed
Clumsiest Information created on 2018/5/13. Last modified 2018/5/24
Alias 内部操作集

CONNECTORS

 依赖 «use» 起始 -> 目标

From: Operations_Inner : ERD_Attribute, Public
To: Metadata_Subject : ERD_Entity, Public

ASSOCIATIONS

 ERD_Connector (direction: 起始 -> 目标) «ERD_Connector»

Source: Public (ERD_Entity) Subject «ERD_Entity»
Cardinality: [1]


Target: Public (ERD_Attribute) Operations_Inner
«ERD_Attribute»
Cardinality: [*]

Operations_Interactive

ERD_Attribute «ERD_Attribute» in package 'CDM'


Operations_Interactive
Version 1.0 Phase 1.0 Proposed
Clumsiest Information created on 2018/5/13. Last modified 2018/6/14
Alias 交互操作集

CONNECTORS

 依赖 «use» 起始 -> 目标

From: Operations_Interactive : ERD_Attribute, Public
To: Metadata_Interactive : ERD_Entity, Public

ASSOCIATIONS

 ERD_Connector (direction: 不指定的) «ERD_Connector»

ASSOCIATIONS

Source: Public (ERD_naryAssociation) Interactive
«ERD_naryAssociation»
Cardinality: [1]

Target: Public (ERD_Attribute)
Operations_Interactive «ERD_Attribute»
Cardinality: [*]

Subject

ERD_Entity «ERD_Entity» in package 'CDM'


Subject

Version 1.0 Phase 1.0 Proposed


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Alias 主体

CONNECTORS


 依赖 «use» 起始 -> 目标
From: Subject : ERD_Entity, Public
To: Metadata_Subject : ERD_Entity, Public

ASSOCIATIONS

 ERD_Connector (direction: 起始 -> 目标) «ERD_Connector»


Source: Public (ERD_Entity) Subject «ERD_Entity»
Cardinality: [1]

Target: Public (ERD_Attribute) Operations_Inner
«ERD_Attribute»
Cardinality: [*]

 ERD_Connector (direction: 不指定的) «ERD_Connector»


Source: Public (ERD_Entity) Subject «ERD_Entity»
Cardinality: [1]

Target: Public (ERD_naryAssociation) Interactive
«ERD_naryAssociation»
Cardinality: [*]

 ERD_Connector (direction: 不指定的) «ERD_Connector»

Source: Public (ERD_Entity) Subject «ERD_Entity»
Cardinality: [1]

Target: Public (ERD_Attribute) UUID_Subject
«ERD_Attribute»
Cardinality: [1]

 ERD_Connector (direction: 起始 -> 目标) «ERD_Connector»

Source: Public (ERD_Entity) Subject «ERD_Entity»
Cardinality: [1]

Target: Public (ERD_Attribute) Attributes_Inner
«ERD_Attribute»
Cardinality: [*]


UUID_Interactive

ERD_Attribute «ERD_Attribute» in package 'CDM'


UUID_Interactive

Version 1.0 Phase 1.0 Proposed
 Clumsiest Information created on 2018/5/13. Last modified 2018/6/14
 Alias 唯一标识码

CONNECTORS

 依赖 «use» 起始 -> 目标
 From: UUID_Interactive : ERD_Attribute, Public
 To: Metadata_Interactive : ERD_Entity, Public

ASSOCIATIONS


 ERD_Connector (direction: 不指定的) «ERD_Connector»
 Source: Public (ERD_naryAssociation) Interactive
 «ERD_naryAssociation»
 Cardinality: [1]
 Target: Public (ERD_Attribute) UUID_Interactive
 «ERD_Attribute»
 Cardinality: [1]

UUID_Object


ERD_Attribute «ERD_Attribute» in package 'CDM'

UUID_Object
 Version 1.0 Phase 1.0 Proposed
 Clumsiest Information created on 2018/5/15. Last modified 2018/6/20
 Alias 唯一标识码

CONNECTORS

 依赖 «use» 起始 -> 目标
 From: UUID_Object : ERD_Attribute, Public
 To: Metadata_Object : ERD_Entity, Public

ASSOCIATIONS

 ERD_Connector (direction: 起始 -> 目标) «ERD_Connector»
 Source: Public (ERD_Entity) Object «ERD_Entity»
 Cardinality: [1]
 Target: Public (ERD_Attribute) UUID_Object
 «ERD_Attribute»
 Cardinality: [1]

UUID_Subject

ERD_Attribute «ERD_Attribute» in package 'CDM'

UUID_Subject
 Version 1.0 Phase 1.0 Proposed
 Clumsiest Information created on 2018/5/13. Last modified 2018/6/20
 Alias 唯一标识码

CONNECTORS

CONNECTORS

依赖 «use» 起始 -> 目标

From: UUID_Subject : ERD_Attribute, Public

To: Metadata_Subject : ERD_Entity, Public

ASSOCIATIONS

ERD_Connector (direction: 不指定的) «ERD_Connector»

Source: Public (ERD_Entity) Subject «ERD_Entity»

Cardinality: [1]

Target: Public (ERD_Attribute) UUID_Subject

«ERD_Attribute»

Cardinality: [1]