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1 RDA DataType model

Package in package 'DataTypeModels'

RDA DataType model
Version 1.0 Phase 1.0 Proposed
srichard created on 8/17/2015. Last modified 8/17/2015

1.1 DataTypeModel diagram

Class diagram in package 'RDA DataType model'

DataTypeModel
Version 1.0
srichard created on 8/17/2015. Last modified 8/18/2015

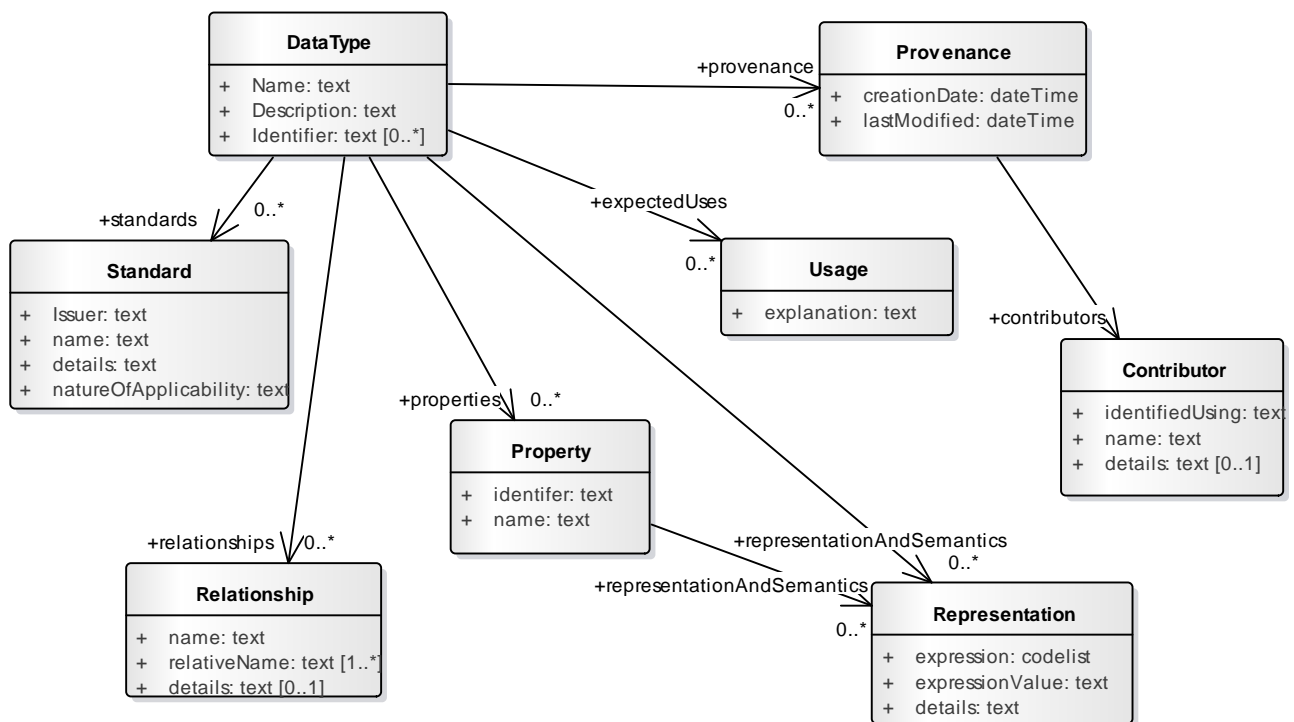


Figure 1: DataTypeModel

1.2 Contributor




Class in package 'RDA DataType model'

ATTRIBUTES	
◆ identifiedUsing : text Public	
◆ name : text Public	
◆ details : text Public	
Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)	

ASSOCIATIONS	
 Association (direction: Source -> Destination)	
Source: Public (Class) Provenance	Target: Public contributors (Class) Contributor Contributors of this Record

1.3 DataType

Class in package 'RDA DataType model'

ATTRIBUTES	
 Name : text Public	
 Description : text Public	
 Identifier : text Public	Multiplicity: ([0..*], Allow duplicates: 0, Is ordered: False)

ASSOCIATIONS	
 Association (direction: Source -> Destination)	
Source: Public (Class) DataType	Target: Public properties (Class) Property Cardinality: [0..*]
 Association (direction: Source -> Destination)	
Source: Public (Class) DataType	Target: Public expectedUses (Class) Usage Cardinality: [0..*]
 Association (direction: Source -> Destination)	
Source: Public (Class) DataType	Target: Public representationAndSemantics (Class) Representation Cardinality: [0..*] this is soft typed with {expression, value} pairs
 Association (direction: Source -> Destination)	
Source: Public (Class) DataType	Target: Public provenance (Class) Provenance Cardinality: [0..*]
 Association (direction: Source -> Destination)	
Source: Public (Class) DataType	Target: Public standards (Class) Standard Cardinality: [0..*]
 Association (direction: Source -> Destination)	
Source: Public (Class) DataType	Target: Public relationships (Class) Relationship Cardinality: [0..*]

ASSOCIATIONS

Intent: How the properties are related to each other, e.g., grouping of properties, cardinality, etc., should be captured here.

1.4 Property

Class in package 'RDA DataType model'

ATTRIBUTES

identifer : text Public

TID of Existing Data Type

name : text Public

Name assigned to dependent type in this context

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) Property

Target: Public representationAndSemantics (Class) Representation

Cardinality: [0..*]

Association (direction: Source -> Destination)

Source: Public (Class) DataType

Target: Public properties (Class) Property

Cardinality: [0..*]

1.5 Provenance

Class in package 'RDA DataType model'

ATTRIBUTES

creationDate : dateTime Public

lastModified : dateTime Public

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) Provenance

Target: Public contributors (Class) Contributor

Contributors of this Record

Association (direction: Source -> Destination)

Source: Public (Class) DataType

Target: Public provenance (Class) Provenance

Cardinality: [0..*]

ASSOCIATIONS

1.6 Relationship

Class in package 'RDA DataType model'

ATTRIBUTES	
◆ name : text Public	
◆ relativeName : text Public	Multiplicity: ([1..*], Allow duplicates: 0, Is ordered: False)
◆ details : text Public	Multiplicity: ([0..1], Allow duplicates: 0, Is ordered: False)

ASSOCIATIONS	
✍ Association (direction: Source -> Destination)	
Source: Public (Class) DataType	Target: Public relationships (Class) Relationship Cardinality: [0..*]
Intent: How the properties are related to each other, e.g., grouping of properties, cardinality, etc., should be captured here.	


1.7 Representation

Class in package 'RDA DataType model'

Representation and Semantic Expression





ATTRIBUTES	
◆ expression : codelist Public	
"suggestedVocabulary": ["Format", "Character Set", "Encoding", "Measurement Unit"	
◆ expressionValue : text Public	
Unicode, UTF-8, Meter, etc.	
◆ details : text Public	

ASSOCIATIONS	
✍ Association (direction: Source -> Destination)	
Source: Public (Class) DataType	Target: Public representationAndSemantics (Class) Representation

ASSOCIATIONS	
	Cardinality: [0..*] this is soft typed with {expression, value} pairs
 Association (direction: Source -> Destination)	
Source: Public (Class) Property	Target: Public representationAndSemantics (Class) Representation Cardinality: [0..*]

1.8 Standard

Class in package 'RDA DataType model'

ATTRIBUTES
 Issuer : text Public
 name : text Public
 details : text Public
 natureOfApplicability : text Public

ASSOCIATIONS	
 Association (direction: Source -> Destination)	
Source: Public (Class) DataType	Target: Public standards (Class) Standard Cardinality: [0..*]

1.9 Usage

Class in package 'RDA DataType model'

ATTRIBUTES
 explanation : text Public

ASSOCIATIONS	
 Association (direction: Source -> Destination)	
Source: Public (Class) DataType	Target: Public expectedUses (Class) Usage Cardinality: [0..*]