

EDIT

Common Data Model

BGBM 2008

Package

eu.etaxonomy.cdm.model.agent

Package: "agent"

Provides classes for different kind of agents such as persons, teams or institutions used in nomenclatural or bibliographical references for taxa and for information associated to them.

Related Documentation

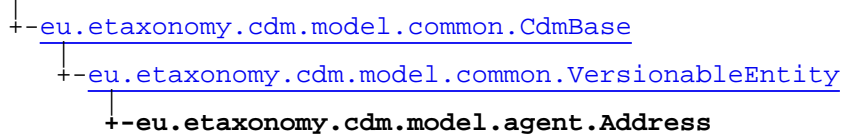
- [TDWG Ontology](#)

UML Diagrams

Agent

eu.etaxonomy.cdm.model.agent Class Address

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

public class **Address**
extends [VersionableEntity](#)

taken from TDWG & VCard <http://rs.tdwg.org/ontology/voc/ContactDetails#Address>

Constructor Summary

public	Address()
--------	---------------------------

Method Summary

Contact	getContact()
WaterbodyOrCountry	getCountry()
java.lang.String	getLocality()
Point	getLocation()
java.lang.String	getPobox()
java.lang.String	getPostcode()
java.lang.String	getRegion()
java.lang.String	getStreet()
void	setContact(Contact newContact)
void	setCountry(WaterbodyOrCountry country)
void	setLocality(java.lang.String locality)
void	setLocation(Point location)

void	setPobox (java.lang.String pobox)
void	setPostcode (java.lang.String postcode)
void	setRegion (java.lang.String region)
void	setStreet (java.lang.String street)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

Address

```
public Address()
```

Methods

getContact

```
public Contact getContact()
```

setContact

```
protected void setContact(Contact newContact)
```

getCountry

```
public WaterbodyOrCountry getCountry()
```

setCountry

```
public void setCountry(WaterbodyOrCountry country)
```

Parameters:

country - country

getLocation

```
public Point getLocation()
```

setLocation

```
public void setLocation(Point location)
```

Parameters:

location - location

getPobox

```
public java.lang.String getPobox()
```

setPobox

```
public void setPobox(java.lang.String pobox)
```

Parameters:

pobox - pobox

getStreet

```
public java.lang.String getStreet()
```

setStreet

```
public void setStreet(java.lang.String street)
```

Parameters:

street - street

getPostcode

```
public java.lang.String getPostcode()
```

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setPostcode

```
public void setPostcode(java.lang.String postcode)
```

Parameters:

postcode - postcode

getLocality

```
public java.lang.String getLocality()
```

setLocality

```
public void setLocality(java.lang.String locality)
```

Parameters:

locality - locality

getRegion

```
public java.lang.String getRegion()
```

setRegion

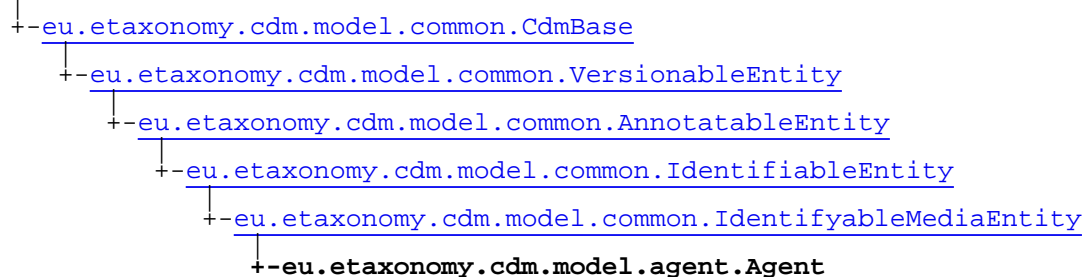
```
public void setRegion(java.lang.String region)
```

Parameters:

region - region

eu.etaxonomy.cdm.model.agent Class Agent

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

Direct Known Subclasses:

[Institution](#), [Person](#), [Team](#)

public abstract class **Agent**
extends [IdentifyableMediaEntity](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public [Agent](#)()

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifyableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

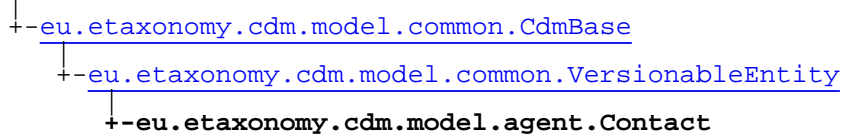
Constructors

Agent

```
public Agent()
```


eu.etaxonomy.cdm.model.agent Class Contact

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

public class **Contact**
extends [VersionableEntity](#)

<http://rs.tdwg.org/ontology/voc/ContactDetails#ContactDetails>

Field Summary

protected	addresses
-----------	---------------------------

Constructor Summary

public	Contact()
--------	---------------------------

Method Summary

void	addAddress (Address address)
java.util.Set	getAddresses ()
java.lang.String	getEmail ()
java.lang.String	getFax ()
java.lang.String	getPhone ()
java.lang.String	getUrl ()
void	removeAddress (Address address)
void	setAddresses (java.util.Set addresses)
void	setEmail (java.lang.String email)
void	setFax (java.lang.String fax)

void	setPhone (java.lang.String phone)
void	setUrl (java.lang.String url)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Fields

addresses

protected java.util.Set **addresses**

Constructors

Contact

public **Contact**()

Methods

getAddresses

public java.util.Set **getAddresses**()

setAddresses

protected void **setAddresses**(java.util.Set addresses)

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addAddress

```
public void addAddress(Address address)
```

removeAddress

```
public void removeAddress(Address address)
```

getEmail

```
public java.lang.String getEmail()
```

setEmail

```
public void setEmail(java.lang.String email)
```

Parameters:

email - email

getUrl

```
public java.lang.String getUrl()
```

setUrl

```
public void setUrl(java.lang.String url)
```

Parameters:

url - url

getPhone

```
public java.lang.String getPhone()
```

setPhone

```
public void setPhone(java.lang.String phone)
```

Parameters:

phone - phone

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getFax

```
public java.lang.String getFax()
```

setFax

```
public void setFax(java.lang.String fax)
```

Parameters:

fax - fax

eu.etaxonomy.cdm.model.agent Class Institution

```

java.lang.Object
├── eu.etaxonomy.cdm.model.common.CdmBase
│   ├── eu.etaxonomy.cdm.model.common.VersionableEntity
│   │   ├── eu.etaxonomy.cdm.model.common.AnnotatableEntity
│   │   │   ├── eu.etaxonomy.cdm.model.common.IdentifiableEntity
│   │   │   │   ├── eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity
│   │   │   │   │   ├── eu.etaxonomy.cdm.model.agent.Agent
│   │   │   │   │   └── eu.etaxonomy.cdm.model.agent.Institution

```

All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

```

public class Institution
extends Agent

```

<http://rs.tdwg.org/ontology/voc/Institution.rdf>

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	Institution()
--------	-------------------------------

Method Summary

void	addTypes(InstitutionType t)
------	---

java.lang.String	generateTitle()
------------------	---------------------------------

java.lang.String	getCode()
------------------	---------------------------

Contact	getContact()
-------------------------	------------------------------

Institution	getIsPartOf()
-----------------------------	-------------------------------

java.lang.String	getName()
------------------	---------------------------

java.util.Set	getTypes()
---------------	----------------------------

void	removeTypes(InstitutionType t)
------	--

void	setCode (java.lang.String code)
void	setContact (Contact contact)
void	setIsPartOf (Institution isPartOf)
void	setName (java.lang.String name)
void	setTypes (java.util.Set types)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

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Institution

```
public Institution()
```

Methods

getContact

```
public Contact getContact()
```

setContact

```
public void setContact(Contact contact)
```

getTypes

```
public java.util.Set getTypes()
```

addTypes

```
public void addTypes(InstitutionType t)
```

removeTypes

```
public void removeTypes(InstitutionType t)
```

setTypes

```
protected void setTypes(java.util.Set types)
```

getIsPartOf

```
public Institution getIsPartOf()
```

setIsPartOf

```
public void setIsPartOf(Institution isPartOf)
```

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getCode

```
public java.lang.String getCode()
```

setCode

```
public void setCode(java.lang.String code)
```

getName

```
public java.lang.String getName()
```

setName

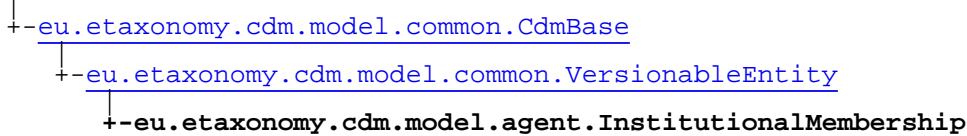
```
public void setName(java.lang.String name)
```

generateTitle

```
public java.lang.String generateTitle()
```

eu.etaxonomy.cdm.model.agent Class InstitutionalMembership

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

public class **InstitutionalMembership**
extends [VersionableEntity](#)

Constructor Summary

public	InstitutionalMembership (Institution institute, Person person, TimePeriod period, java.lang.String department, java.lang.String role)
--------	--

Method Summary

java.lang.String	getDepartment ()
Institution	getInstitute ()
TimePeriod	getPeriod ()
Person	getPerson ()
java.lang.String	getRole ()
void	setDepartment (java.lang.String department)
void	setInstitute (Institution newInstitute)
void	setPeriod (TimePeriod period)
void	setPerson (Person newPerson)
void	setRole (java.lang.String role)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

InstitutionalMembership

```
public InstitutionalMembership(Institution institute,  
                             Person person,  
                             TimePeriod period,  
                             java.lang.String department,  
                             java.lang.String role)
```

Methods

getPerson

```
public Person getPerson()
```

setPerson

```
public void setPerson(Person newPerson)
```

getInstitute

```
public Institution getInstitute()
```

setInstitute

```
public void setInstitute(Institution newInstitute)
```

getPeriod

```
public TimePeriod getPeriod()
```

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setPeriod

```
public void setPeriod(TimePeriod period)
```

Parameters:

period - period

getDepartment

```
public java.lang.String getDepartment()
```

setDepartment

```
public void setDepartment(java.lang.String department)
```

Parameters:

department - department

getRole

```
public java.lang.String getRole()
```

setRole

```
public void setRole(java.lang.String role)
```

Parameters:

role - role

eu.etaxonomy.cdm.model.agent Class InstitutionType

```

java.lang.Object
  |
  +- eu.etaxonomy.cdm.model.common.CdmBase
      |
      +- eu.etaxonomy.cdm.model.common.VersionableEntity
          |
          +- eu.etaxonomy.cdm.model.common.TermBase
              |
              +- eu.etaxonomy.cdm.model.common.DefinedTermBase
                  |
                  +- eu.etaxonomy.cdm.model.agent.InstitutionType
  
```

All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#)

```

public class InstitutionType
extends DefinedTermBase
  
```

<http://rs.tdwg.org/ontology/voc/InstitutionType>

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	InstitutionType ()
public	InstitutionType (java.lang.String term, java.lang.String label)

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

```
addPropertyChangeListener, addPropertyChangeListener, equals, firePropertyChange,  
firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange,  
firePropertyChange, getCreated, getCreatedBy, getId, getUuid, hasListeners,  
removePropertyChangeListener, removePropertyChangeListener, setCreated, setCreatedBy,  
setId, setUuid, toString
```

Methods inherited from class `java.lang.Object`

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait,  
wait
```

Methods inherited from interface `eu.etaxonomy.cdm.model.common.IDefTerm`

```
getVocabulary, readCsvLine, setVocabulary, writeCsvLine
```

Constructors

InstitutionType

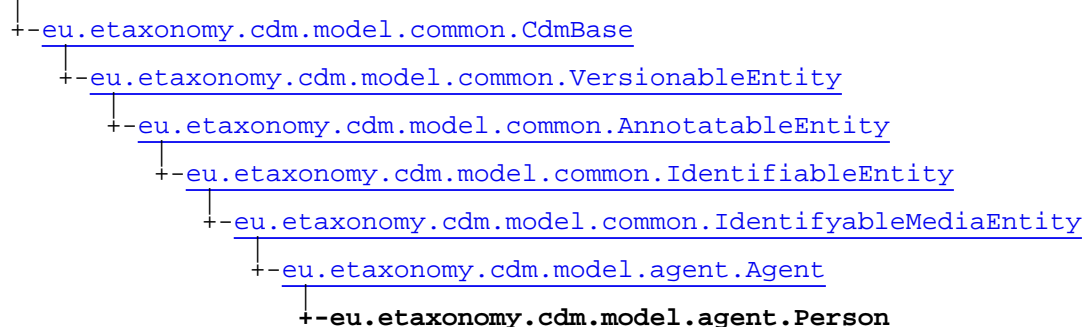
```
public InstitutionType()
```

InstitutionType

```
public InstitutionType(java.lang.String term,  
                        java.lang.String label)
```

eu.etaxonomy.cdm.model.agent Class Person

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

public class **Person**
extends [Agent](#)

<http://rs.tdwg.org/ontology/voc/Person.rdf>

Field Summary

protected	institutionalMemberships
-----------	--

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	Person ()
public	Person (java.lang.String firstname, java.lang.String lastname, java.lang.String abbreviation)

Method Summary

void	addInstitutionalMembership (Institution institution, TimePeriod period, java.lang.String department, java.lang.String role)
void	addKeyword (Keyword keyword)
java.lang.String	generateTitle ()
Contact	getContact ()
java.lang.String	getFirstname ()

java.util.Set	getInstitutionalMemberships()
java.util.Set	getKeywords()
java.lang.String	getLastname()
TimePeriod	getLifespan()
java.lang.String	getPrefix()
java.lang.String	getSuffix()
void	removeInstitutionalMembership(InstitutionalMembership ims)
void	removeKeyword(Keyword keyword)
void	setContact(Contact contact)
void	setFirstname(java.lang.String firstname)
void	setInstitutionalMemberships(java.util.Set institutionalMemberships)
void	setKeywords(java.util.Set keywords)
void	setLastname(java.lang.String lastname)
void	setLifespan(TimePeriod lifespan)
void	setPrefix(java.lang.String prefix)
void	setSuffix(java.lang.String suffix)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Fields

institutionalMemberships

protected `java.util.Set` **institutionalMemberships**

Constructors

Person

```
public Person()
```

Person

```
public Person(java.lang.String firstname,  
              java.lang.String lastname,  
              java.lang.String abbreviation)
```

Methods

getInstitutionalMemberships

```
public java.util.Set getInstitutionalMemberships()
```


setInstitutionalMemberships

```
protected void setInstitutionalMemberships(java.util.Set institutionalMemberships)
```

addInstitutionalMembership

```
public void addInstitutionalMembership(Institution institution,  
    TimePeriod period,  
    java.lang.String department,  
    java.lang.String role)
```

removeInstitutionalMembership

```
public void removeInstitutionalMembership(InstitutionalMembership ims)
```

getKeywords

```
public java.util.Set getKeywords()
```

setKeywords

```
public void setKeywords(java.util.Set keywords)
```

addKeyword

```
public void addKeyword(Keyword keyword)
```

removeKeyword

```
public void removeKeyword(Keyword keyword)
```

getContact

```
public Contact getContact()
```

setContact

```
public void setContact(Contact contact)
```

getPrefix

```
public java.lang.String getPrefix()
```

setPrefix

```
public void setPrefix(java.lang.String prefix)
```

getFirstname

```
public java.lang.String getFirstname()
```

setFirstname

```
public void setFirstname(java.lang.String firstname)
```

getLastname

```
public java.lang.String getLastname()
```

setLastname

```
public void setLastname(java.lang.String lastname)
```

getSuffix

```
public java.lang.String getSuffix()
```

setSuffix

```
public void setSuffix(java.lang.String suffix)
```

getLifespan

```
public TimePeriod getLifespan()
```

setLifespan

```
public void setLifespan(TimePeriod lifespan)
```

(continued from last page)

Parameters:

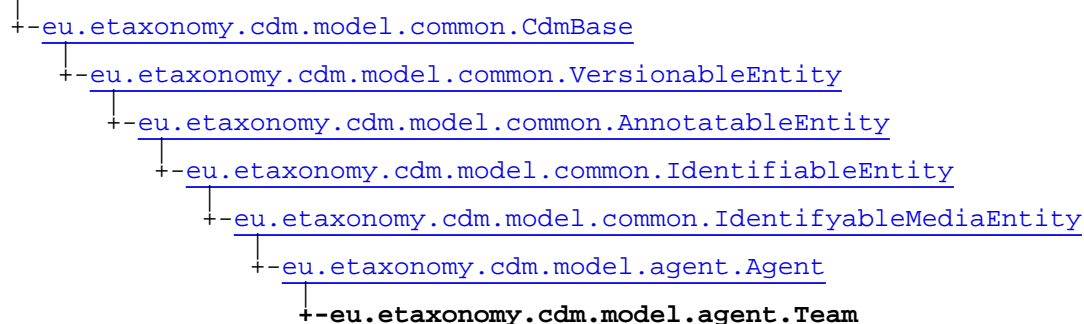
lifespan - lifespan

generateTitle

```
public java.lang.String generateTitle()
```

eu.etaxonomy.cdm.model.agent Class Team

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

public class **Team**
extends [Agent](#)

An author team may exist for itself or may be built with the persons who belong to it. {At least one of the attributes shortName or fullName must exist.}

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	Team()
--------	------------------------

Method Summary

void	addTeamMember (Person person)
------	--

java.lang.String	generateTitle ()
------------------	----------------------------------

java.util.List	getTeamMembers ()
----------------	-----------------------------------

void	removeTeamMember (Person person)
------	---

void	setTeamMembers (java.util.List teamMembers)
------	---

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifyableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

Team

```
public Team()
```

Methods

getTeamMembers

```
public java.util.List getTeamMembers()
```

(continued from last page)

setTeamMembers

```
protected void setTeamMembers(java.util.List teamMembers)
```

addTeamMember

```
public void addTeamMember(Person person)
```

removeTeamMember

```
public void removeTeamMember(Person person)
```

generateTitle

```
public java.lang.String generateTitle()
```

Package

eu.etaxonomy.cdm.model.common

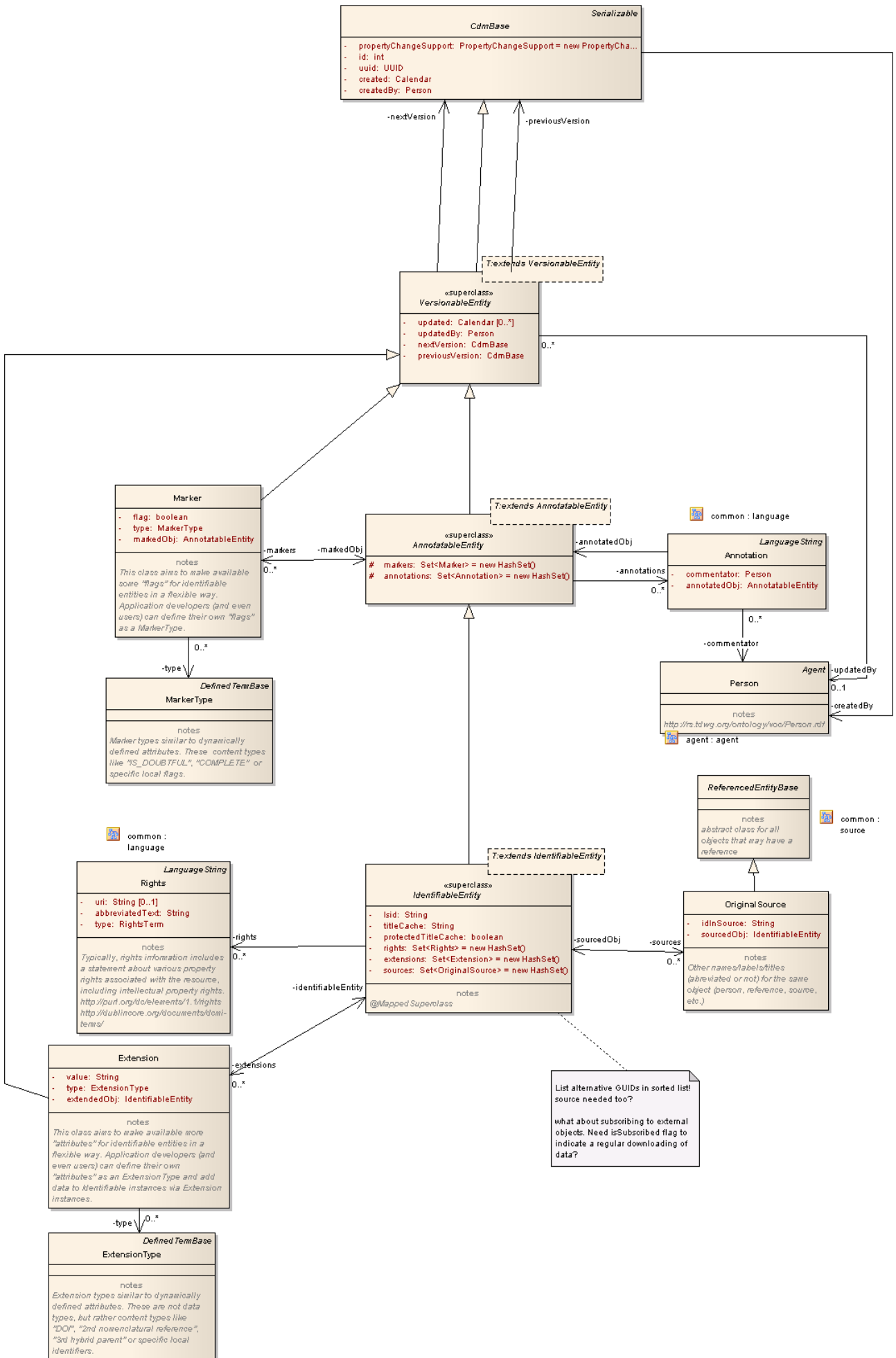
Package: "common"

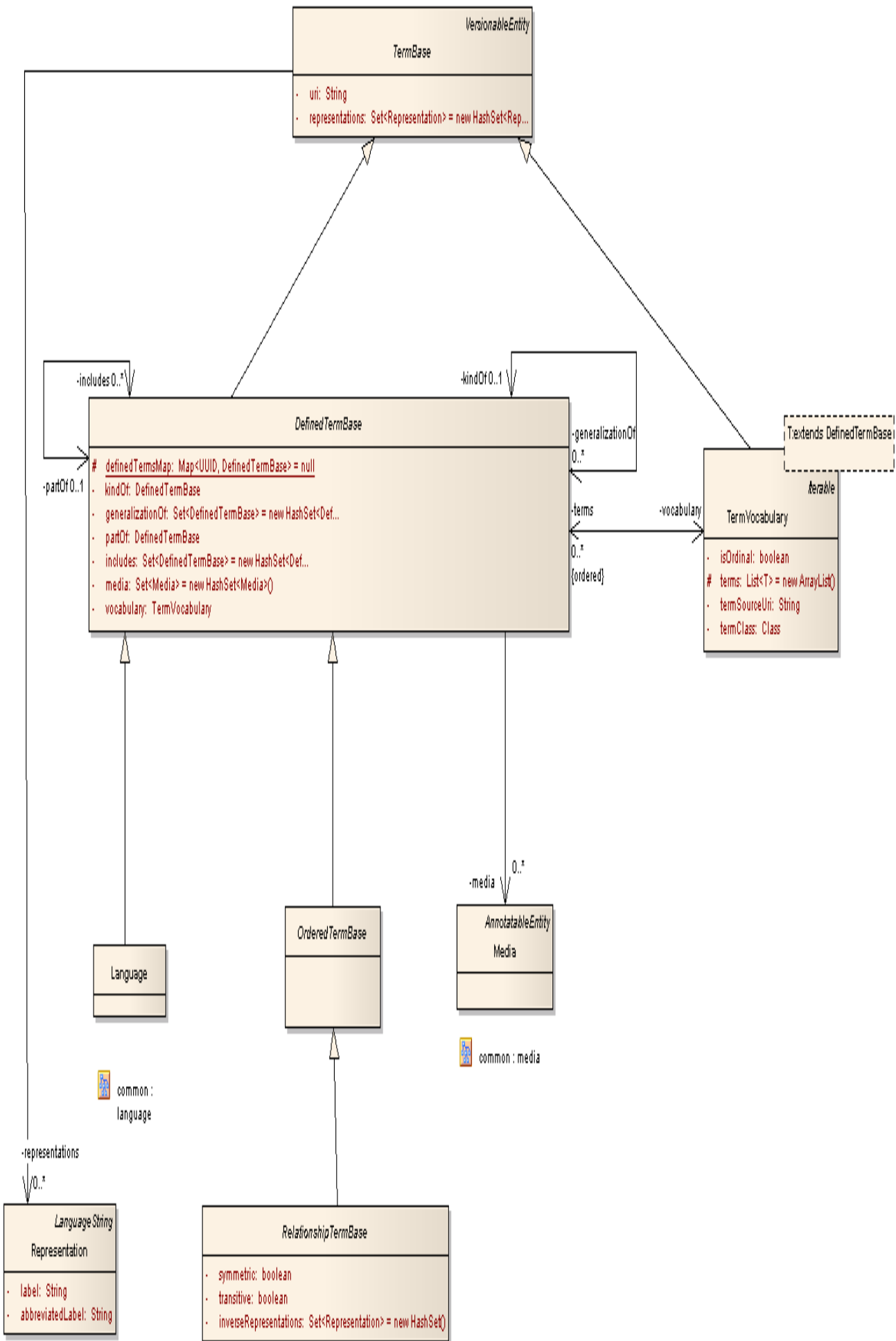
Provides general technical or common classes on the base of which are built the model classes from all others thematic packages.

UML Diagrams

Base classes

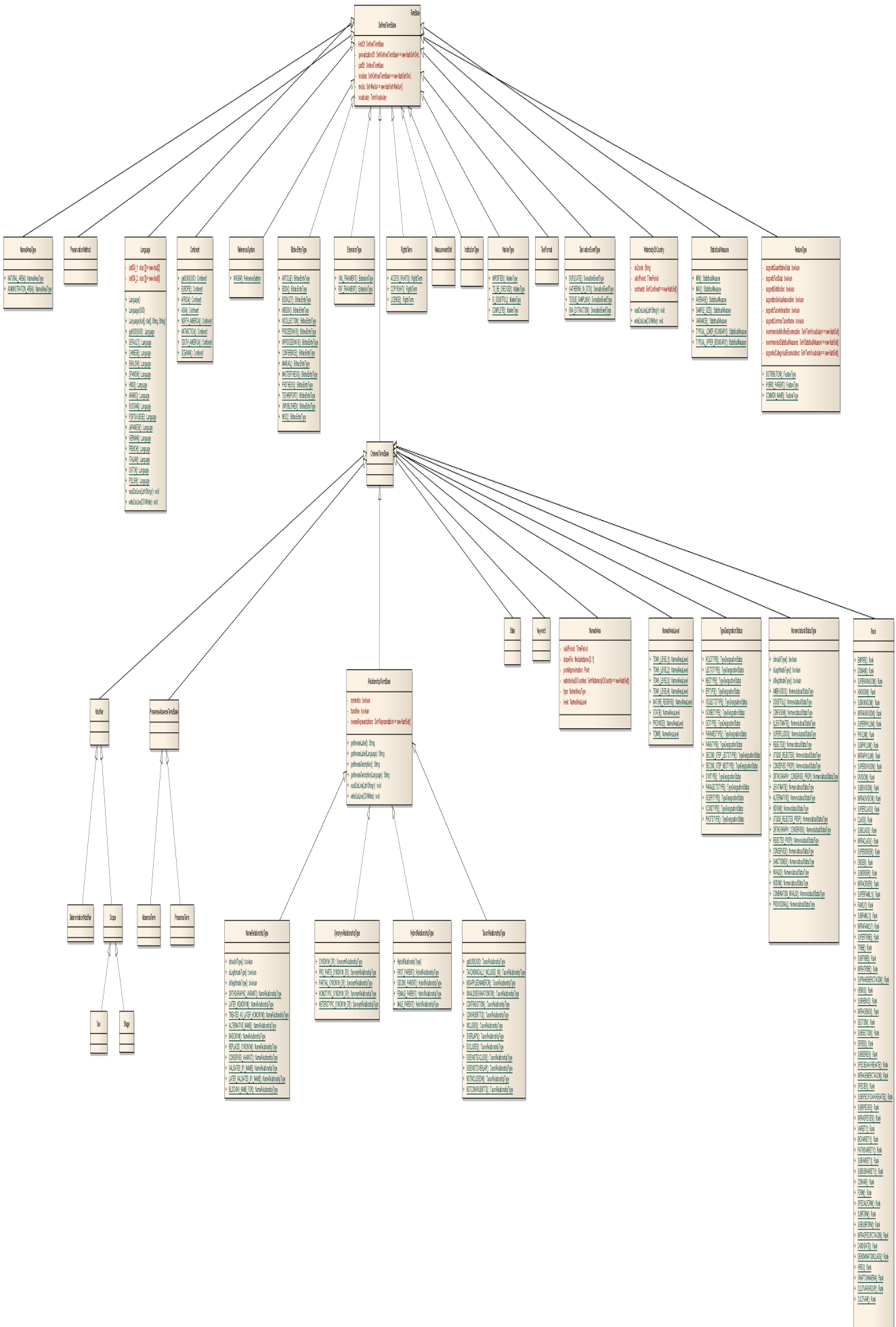
Term base

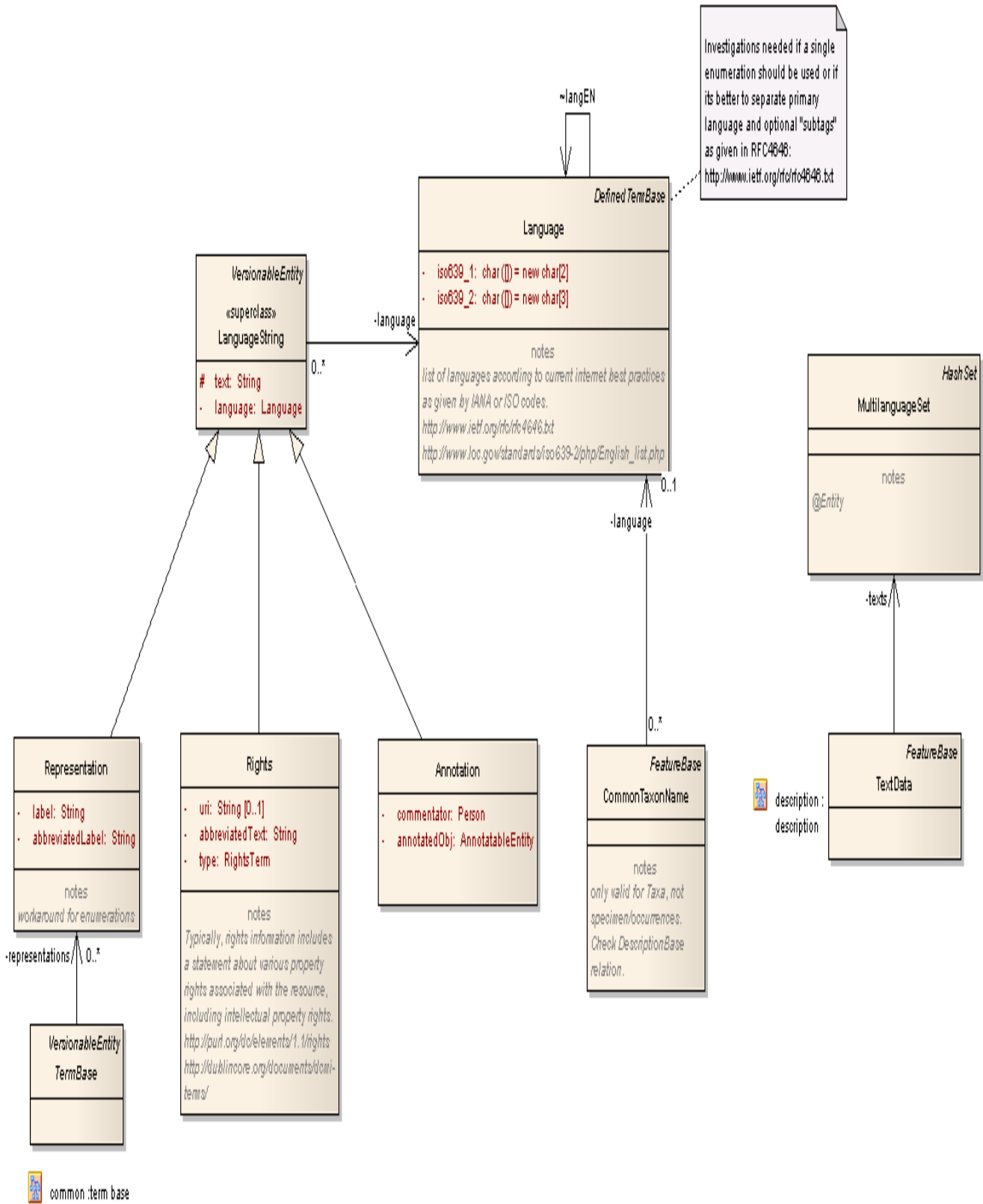




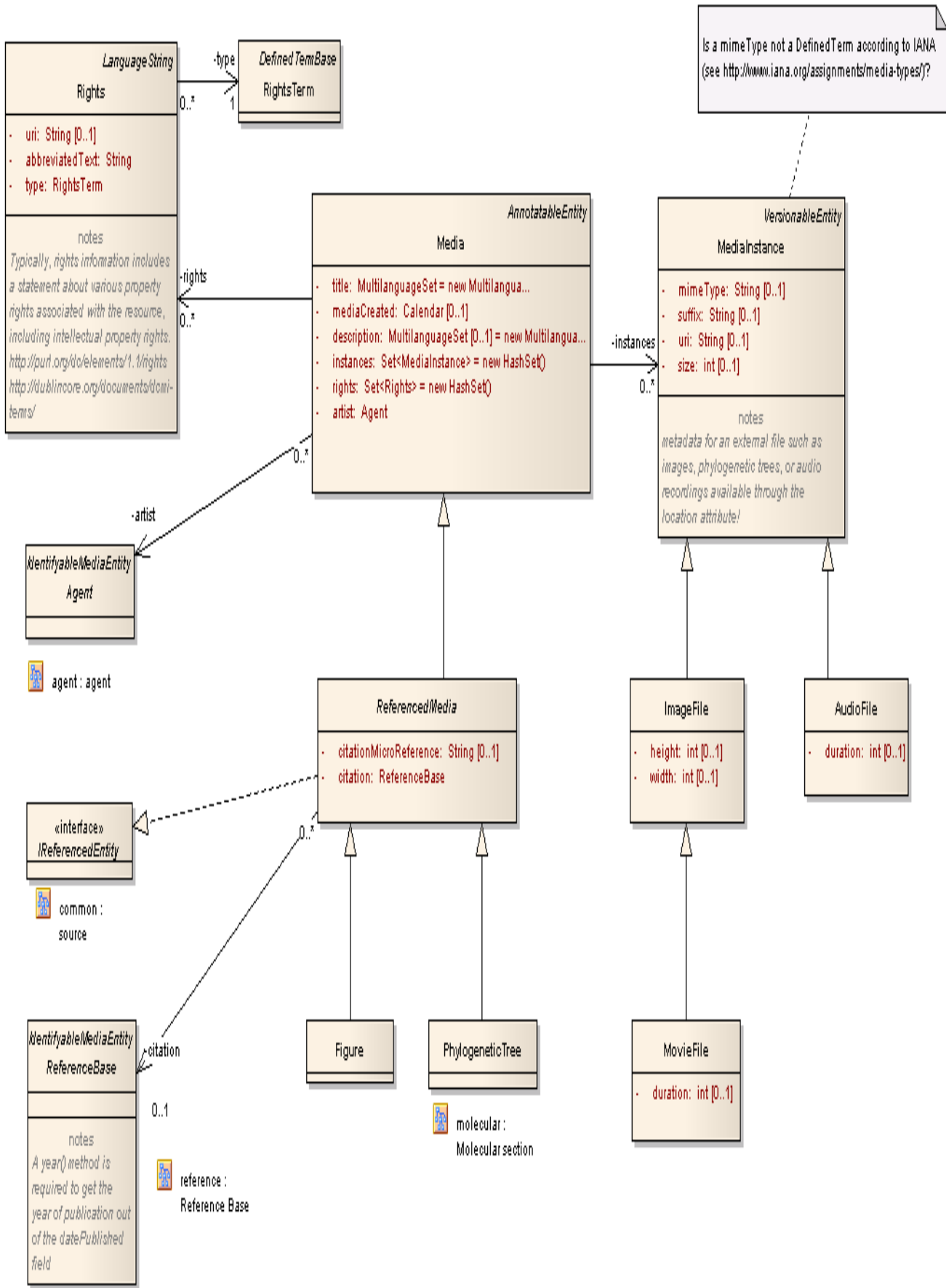
Defined terms

Language

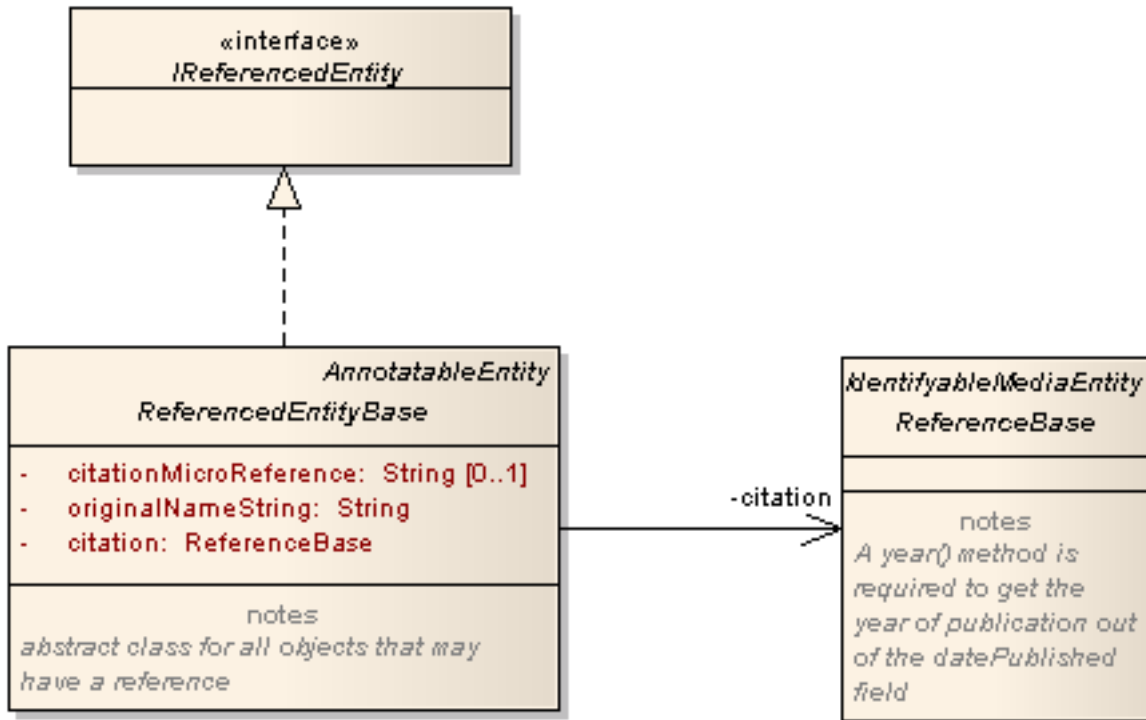




Media

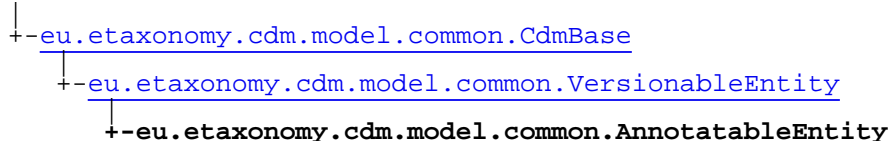


Source



eu.etaxonomy.cdm.model.common Class AnnotatableEntity

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[HomotypicalGroup](#), [EventBase](#), [IdentifiableEntity](#), [Media](#), [ReferencedEntityBase](#)

public abstract class **AnnotatableEntity**
extends [VersionableEntity](#)

Abstract superclass implementing human annotations and machine markers to be assigned to CDM objects.

Field Summary

protected	annotations
protected	markers

Constructor Summary

public	AnnotatableEntity()
--------	-------------------------------------

Method Summary

void	addAnnotations (Annotation annotation)
void	addMarker (Marker marker)
java.util.Set	getAnnotations ()
java.util.Set	getMarkers ()
void	removeAnnotations (Annotation annotation)
void	removeMarker (Marker marker)
void	setAnnotations (java.util.Set annotations)
void	setMarkers (java.util.Set markers)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Fields

markers

protected `java.util.Set` **markers**

annotations

protected `java.util.Set` **annotations**

Constructors

AnnotatableEntity

public **AnnotatableEntity**()

Methods

getMarkers

public `java.util.Set` **getMarkers**()

addMarker

public void **addMarker**([Marker](#) marker)

(continued from last page)

removeMarker

```
public void removeMarker(Marker marker)
```

setMarkers

```
protected void setMarkers(java.util.Set markers)
```

getAnnotations

```
public java.util.Set getAnnotations()
```

addAnnotations

```
public void addAnnotations(Annotation annotation)
```

removeAnnotations

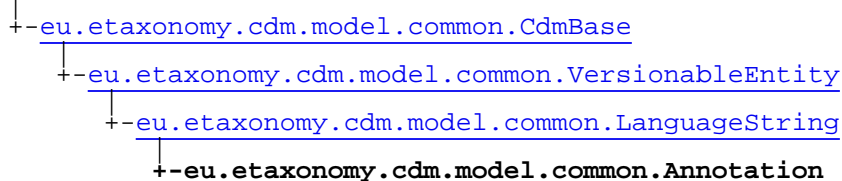
```
public void removeAnnotations(Annotation annotation)
```

setAnnotations

```
protected void setAnnotations(java.util.Set annotations)
```

eu.etaxonomy.cdm.model.common Class Annotation

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

public class **Annotation**
extends [LanguageString](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.LanguageString](#)

[text](#)

Constructor Summary

public [Annotation](#)(java.lang.String text, [Language](#) lang)

Method Summary

[AnnotatableEntity](#) [getAnnotatedObj](#)()

[Person](#) [getCommentator](#)()

java.net.URL [getLinkbackUrl](#)()

void [setAnnotatedObj](#)([AnnotatableEntity](#) newAnnotatedObj)

void [setCommentator](#)([Person](#) commentator)

void [setLinkbackUrl](#)(java.net.URL linkbackUrl)

Methods inherited from class [eu.etaxonomy.cdm.model.common.LanguageString](#)

[getLanguage](#), [getLanguageLabel](#), [getLanguageLabel](#), [getLanguageText](#), [getLanguageText](#), [getText](#), [setLanguage](#), [setText](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

```
addPropertyChangeListener, addPropertyChangeListener, equals, firePropertyChange,  
firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange,  
firePropertyChange, getCreated, getCreatedBy, getId, getUuid, hasListeners,  
removePropertyChangeListener, removePropertyChangeListener, setCreated, setCreatedBy,  
setId, setUuid, toString
```

Methods inherited from class `java.lang.Object`

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait,  
wait
```

Constructors

Annotation

```
public Annotation(java.lang.String text,  
                  Language lang)
```

Methods

getAnnotatedObj

```
public AnnotatableEntity getAnnotatedObj()
```

setAnnotatedObj

```
protected void setAnnotatedObj(AnnotatableEntity newAnnotatedObj)
```

getCommentator

```
public Person getCommentator()
```

setCommentator

```
public void setCommentator(Person commentator)
```

getLinkbackUrl

```
public java.net.URL getLinkbackUrl()
```

setLinkbackUrl

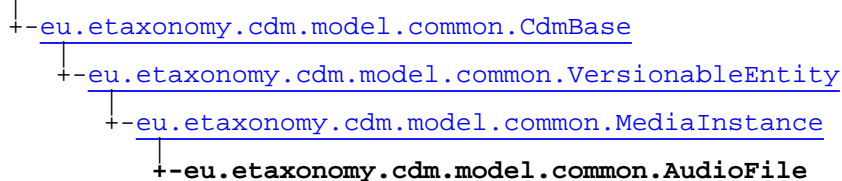
```
public void setLinkbackUrl(java.net.URL linkbackUrl)
```

(continued from last page)

eu.etaxonomy.cdm.model.common

Class AudioFile

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

public class **AudioFile**
 extends [MediaInstance](#)

Constructor Summary

public	AudioFile()
--------	-----------------------------

Method Summary

int	getDuration()
void	setDuration(int duration)

Methods inherited from class [eu.etaxonomy.cdm.model.common.MediaInstance](#)

[getMedia](#), [getMimeType](#), [getSize](#), [getUri](#), [setMedia](#), [setMimeType](#), [setSize](#), [setUri](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class java.lang.Object

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

(continued from last page)

Constructors

AudioFile

```
public AudioFile()
```

Methods

getDuration

```
public int getDuration()
```

setDuration

```
public void setDuration(int duration)
```

Parameters:

duration - duration

eu.etaxonomy.cdm.model.common Class CdmBase

java.lang.Object

└-eu.etaxonomy.cdm.model.common.CdmBase

All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[VersionableEntity](#)

public abstract class **CdmBase**
 extends java.lang.Object
 implements java.io.Serializable

The base class for all CDM domain classes implementing UUIDs and bean property change event firing. It provides a globally unique UUID and keeps track of creation date and person. The UUID is the same for different versions (see [VersionableEntity](#)) of a CDM object, so a locally unique id exists in addition that allows to safely access and store several objects (=version) with the same UUID. This class together with the `eu.etaxonomy.cdm.aspectj.PropertyChangeAspect` will fire bean change events to all registered listeners. Listener registration and event firing is done with the help of the `java.beans.PropertyChangeSupport` class.

Constructor Summary

public	CdmBase() Class constructor assigning a unique UUID and creation date.
--------	---

Method Summary

void	addPropertyChangeListener (java.beans.PropertyChangeListener listener) see PropertyChangeSupport.addPropertyChangeListener(java.beans.PropertyChangeListener)
void	addPropertyChangeListener (java.lang.String propertyName, java.beans.PropertyChangeListener listener) see PropertyChangeSupport.addPropertyChangeListener(java.lang.String, java.beans.PropertyChangeListener)
boolean	equals (java.lang.Object obj) Is true if UUID and created timestamp are the same for the passed Object and this one.
void	firePropertyChange (java.beans.PropertyChangeEvent evt)
void	firePropertyChange (java.lang.String property, boolean oldval, boolean newval)
void	firePropertyChange (java.lang.String property, float oldval, float newval)
void	firePropertyChange (java.lang.String property, int oldval, int newval)

void	firePropertyChange (java.lang.String property, java.lang.Object oldval, java.lang.Object newval)
void	firePropertyChange (java.lang.String property, java.lang.String oldval, java.lang.String newval)
java.util.Calendar	getCreated ()
Person	getCreatedBy ()
int	getId () Returns local unique identifier for the concrete subclass
java.util.UUID	getUuid ()
boolean	hasListeners (java.lang.String propertyName)
void	removePropertyChangeListener (java.beans.PropertyChangeListener listener) see PropertyChangeSupport.addPropertyChangeListener(java.beans.PropertyChangeListener)
void	removePropertyChangeListener (java.lang.String propertyName, java.beans.PropertyChangeListener listener)
void	setCreated (java.util.Calendar created) Sets the timestamp this object was created.
void	setCreatedBy (Person createdBy)
void	setId (int id) Assigns a unique local ID to this object.
void	setUuid (java.util.UUID uuid)
java.lang.String	toString () Returns the class, id and uuid as a string for any CDM object.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

CdmBase

```
public CdmBase()
```

Class constructor assigning a unique UUID and creation date. UUID can be changed later via setUuid method.

Methods

(continued from last page)

addPropertyChangeListener

```
public void addPropertyChangeListener(java.beans.PropertyChangeListener listener)
```

see `PropertyChangeSupport.addPropertyChangeListener(java.beans.PropertyChangeListener)`

Parameters:

listener

addPropertyChangeListener

```
public void addPropertyChangeListener(java.lang.String propertyName,  
    java.beans.PropertyChangeListener listener)
```

see `PropertyChangeSupport.addPropertyChangeListener(java.lang.String, java.beans.PropertyChangeListener)`

removePropertyChangeListener

```
public void removePropertyChangeListener(java.beans.PropertyChangeListener listener)
```

see `PropertyChangeSupport.removePropertyChangeListener(java.beans.PropertyChangeListener)`

removePropertyChangeListener

```
public void removePropertyChangeListener(java.lang.String propertyName,  
    java.beans.PropertyChangeListener listener)
```

See Also:

`PropertyChangeSupport.addPropertyChangeListener(java.lang.String, java.beans.PropertyChangeListener)`

hasListeners

```
public boolean hasListeners(java.lang.String propertyName)
```

firePropertyChange

```
public void firePropertyChange(java.lang.String property,  
    java.lang.String oldval,  
    java.lang.String newval)
```

firePropertyChange

```
public void firePropertyChange(java.lang.String property,  
    int oldval,  
    int newval)
```

(continued from last page)

firePropertyChange

```
public void firePropertyChange(java.lang.String property,  
    float oldval,  
    float newval)
```

firePropertyChange

```
public void firePropertyChange(java.lang.String property,  
    boolean oldval,  
    boolean newval)
```

firePropertyChange

```
public void firePropertyChange(java.lang.String property,  
    java.lang.Object oldval,  
    java.lang.Object newval)
```

firePropertyChange

```
public void firePropertyChange(java.beans.PropertyChangeEvent evt)
```

getId

```
public int getId()
```

Returns local unique identifier for the concrete subclass

Returns:

setId

```
public void setId(int id)
```

Assigns a unique local ID to this object. Because of the EJB3 @Id and @GeneratedValue annotation this id will be set automatically by the persistence framework when object is saved.

Parameters:

id

getUuid

```
public java.util.UUID getUuid()
```

setUuid

```
public void setUuid(java.util.UUID uuid)
```

(continued from last page)

getCreated

```
public java.util.Calendar getCreated()
```

setCreated

```
public void setCreated(java.util.Calendar created)
```

Sets the timestamp this object was created. Most databases cannot store milliseconds, so they are removed by this method. Caution: We are planning to replace the Calendar class with a different datetime representation which is more suitable for hibernate see TRAC ticket

Parameters:

created

getCreatedBy

```
public Person getCreatedBy()
```

setCreatedBy

```
public void setCreatedBy(Person createdBy)
```

equals

```
public boolean equals(java.lang.Object obj)
```

Is true if UUID and created timestamp are the same for the passed Object and this one.

See Also:

`Object.equals(java.lang.Object)`

toString

```
public java.lang.String toString()
```

Returns the class, id and uuid as a string for any CDM object. For example: Taxon#13

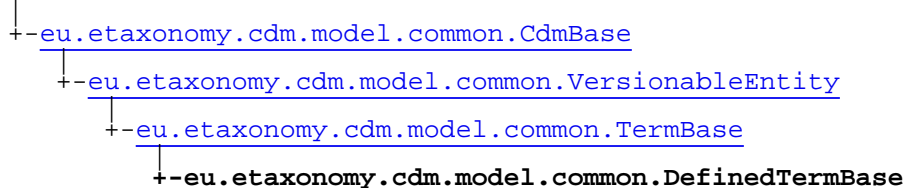
See Also:

`Object.toString()`

eu.etaxonomy.cdm.model.common

Class DefinedTermBase

java.lang.Object



All Implemented Interfaces:

[IDefTerm](#), java.io.Serializable

Direct Known Subclasses:

[BibtexEntryType](#), [DerivationEventType](#), [PreservationMethod](#), [Continent](#), [NamedAreaType](#), [ReferenceSystem](#), [WaterbodyOrCountry](#), [FeatureType](#), [MeasurementUnit](#), [StatisticalMeasure](#), [TextFormat](#), [ExtensionType](#), [Language](#), [MarkerType](#), [OrderedTermBase](#), [RightsTerm](#), [InstitutionType](#)

public abstract class **DefinedTermBase**

extends [TermBase](#)

implements java.io.Serializable, [IDefTerm](#)

workaround for enumerations, base type according to TDWG. For linear ordering use partOf relation and BreadthFirst. Default iterator order should therefore be BreadthFirst (not DepthFirst)

Field Summary

protected	vocabulary
protected static	vocabularyStore

Constructor Summary

public	DefinedTermBase ()
public	DefinedTermBase (java.lang.String term, java.lang.String label)

Method Summary

void	addIncludes (DefinedTermBase includes)
void	addMedia (Media media)
static DefinedTermBase	findByUuid (java.util.UUID uuid)
java.util.Set	getGeneralizationOf ()
java.util.Set	getIncludes ()

DefinedTermBase	getKindOf()
java.util.Set	getMedia()
DefinedTermBase	getPartOf()
TermVocabulary	getPersistentVocabulary()
TermVocabulary	getVocabulary()
void	readCsvLine (java.util.List csvLine)
void	readCsvLine (java.util.List csvLine, Language lang)
void	removeIncludes (TermBase includes)
void	removeMedia (Media media)
void	setGeneralizationOf (java.util.Set generalizationOf)
void	setIncludes (java.util.Set includes)
void	setKindOf (DefinedTermBase kindOf)
void	setMedia (java.util.Set media)
void	setPartOf (DefinedTermBase partOf)
void	setPersistentVocabulary (TermVocabulary newVocabulary)
void	setVocabulary (TermVocabulary newVocabulary)
static void	setVocabularyStore (IVocabularyStore vocabularyStore)
void	writeCsvLine (CSVWriter writer)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Fields

vocabularyStore

protected static `eu.etaxonomy.cdm.model.common.init.IVocabularyStore` **vocabularyStore**

vocabulary

protected `eu.etaxonomy.cdm.model.common.TermVocabulary` **vocabulary**

Constructors

DefinedTermBase

public **DefinedTermBase**()

DefinedTermBase

public **DefinedTermBase**(`java.lang.String` term,
`java.lang.String` label)

Methods

setVocabularyStore

public static void **setVocabularyStore**(`IVocabularyStore` vocabularyStore)

(continued from last page)

findByUuid

```
public static DefinedTermBase findByUuid(java.util.UUID uuid)
```

readCsvLine

```
public void readCsvLine(java.util.List csvLine)
```

readCsvLine

```
public void readCsvLine(java.util.List csvLine,  
    Language lang)
```

writeCsvLine

```
public void writeCsvLine(CSVWriter writer)
```

getKindOf

```
public DefinedTermBase getKindOf()
```

setKindOf

```
public void setKindOf(DefinedTermBase kindOf)
```

getGeneralizationOf

```
public java.util.Set getGeneralizationOf()
```

setGeneralizationOf

```
public void setGeneralizationOf(java.util.Set generalizationOf)
```

getPartOf

```
public DefinedTermBase getPartOf()
```

setPartOf

```
public void setPartOf(DefinedTermBase partOf)
```

(continued from last page)

getIncludes

```
public java.util.Set getIncludes()
```

setIncludes

```
public void setIncludes(java.util.Set includes)
```

addIncludes

```
public void addIncludes(DefinedTermBase includes)
```

removeIncludes

```
public void removeIncludes(TermBase includes)
```

getMedia

```
public java.util.Set getMedia()
```

setMedia

```
public void setMedia(java.util.Set media)
```

addMedia

```
public void addMedia(Media media)
```

removeMedia

```
public void removeMedia(Media media)
```

getVocabulary

```
public TermVocabulary getVocabulary()
```

(continued from last page)

setVocabulary

```
public void setVocabulary(TermVocabulary newVocabulary)
```

getPersistentVocabulary

```
protected TermVocabulary getPersistentVocabulary()
```

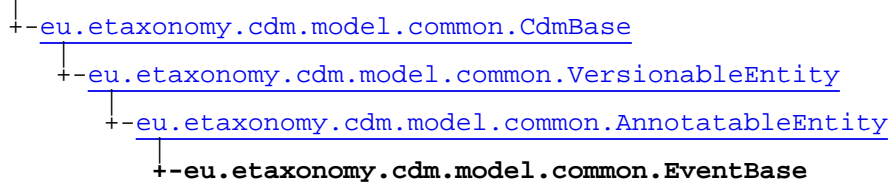
setPersistentVocabulary

```
protected void setPersistentVocabulary(TermVocabulary newVocabulary)
```

eu.etaxonomy.cdm.model.common

Class EventBase

java.lang.Object



All Implemented Interfaces:

[IEvent](#), java.io.Serializable

Direct Known Subclasses:

[DerivationEvent](#), [DeterminationEvent](#), [GatheringEvent](#)

```

public abstract class EventBase
extends AnnotatableEntity
implements java.io.Serializable, IEvent
  
```

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	EventBase()
--------	-----------------------------

Method Summary

Agent	getActor()
-----------------------	----------------------------

java.lang.String	getDescription()
------------------	----------------------------------

TimePeriod	getTimeperiod()
----------------------------	---------------------------------

void	setActor(Agent actor)
------	---

void	setDescription(java.lang.String description)
------	--

void	setTimeperiod(TimePeriod timeperiod)
------	--

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#),
[getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#),
[firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#),
[firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#),
[removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#),
[setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#),
[wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IEvent](#)

[getActor](#), [getTimeperiod](#), [setActor](#), [setTimeperiod](#)

Constructors

EventBase

```
public EventBase()
```

Methods

getTimeperiod

```
public TimePeriod getTimeperiod()
```

setTimeperiod

```
public void setTimeperiod(TimePeriod timeperiod)
```

getActor

```
public Agent getActor()
```

setActor

```
public void setActor(Agent actor)
```

(continued from last page)

getDescription

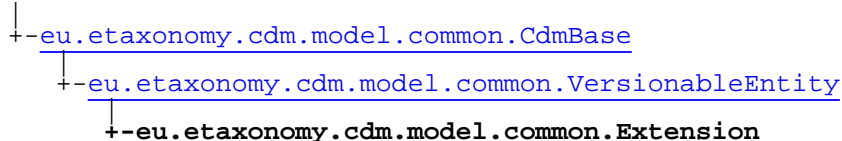
```
public java.lang.String getDescription()
```

setDescription

```
public void setDescription(java.lang.String description)
```

eu.etaxonomy.cdm.model.common Class Extension

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

public class **Extension**
extends [VersionableEntity](#)

This class aims to make available more "attributes" for identifiable entities in a flexible way. Application developers (and even users) can define their own "attributes" as an ExtensionType and add data to Identifiable instances via Extension instances.

Constructor Summary

public	Extension()
--------	-----------------------------

Method Summary

IdentifiableEntity	getExtendedObj()
ExtensionType	getType()
java.lang.String	getValue()
void	setExtendedObj(IdentifiableEntity extendedObj)
void	setType(ExtensionType type)
void	setValue(java.lang.String value)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class java.lang.Object

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Constructors

Extension

```
public Extension()
```

Methods

getExtendedObj

```
public IdentifiableEntity getExtendedObj()
```

setExtendedObj

```
public void setExtendedObj(IdentifiableEntity extendedObj)
```

getType

```
public ExtensionType getType()
```

setType

```
public void setType(ExtensionType type)
```

Parameters:

type - type

getValue

```
public java.lang.String getValue()
```

setValue

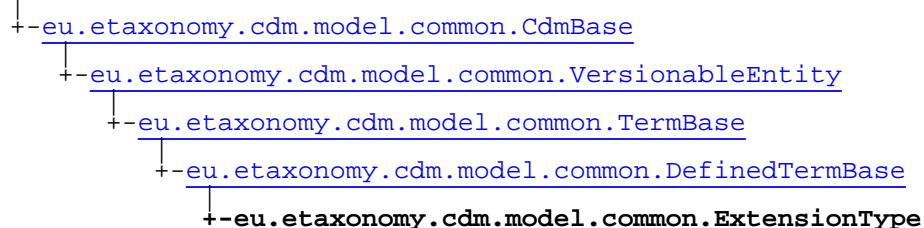
```
public void setValue(java.lang.String value)
```

Parameters:

value - value

eu.etaxonomy.cdm.model.common Class ExtensionType

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#)

public class **ExtensionType**
extends [DefinedTermBase](#)

Extension types similar to dynamically defined attributes. These are not data types, but rather content types like "DOI", "2nd nomenclatural reference", "3rd hybrid parent" or specific local identifiers.

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	ExtensionType ()
public	ExtensionType (java.lang.String term, java.lang.String label)

Method Summary

static ExtensionType	RDF_FRAGMENT ()
static ExtensionType	XML_FRAGMENT ()

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#),
[getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#),
[firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#),
[firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#),
[removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#),
[setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#),
[wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Constructors

ExtensionType

```
public ExtensionType()
```

ExtensionType

```
public ExtensionType(java.lang.String term,  
                    java.lang.String label)
```

Methods

XML_FRAGMENT

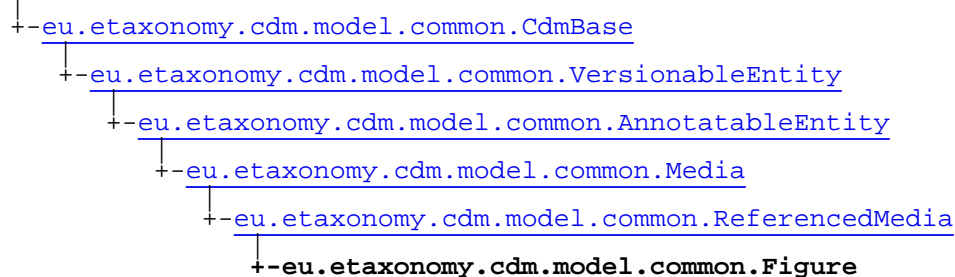
```
public final static ExtensionType XML_FRAGMENT()
```

RDF_FRAGMENT

```
public final static ExtensionType RDF_FRAGMENT()
```


eu.etaxonomy.cdm.model.common Class Figure

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IReferencedEntity](#)

public class **Figure**
extends [ReferencedMedia](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public [Figure](#)()

Methods inherited from class [eu.etaxonomy.cdm.model.common.ReferencedMedia](#)

[getCitation](#), [getCitationMicroReference](#), [setCitation](#), [setCitationMicroReference](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.Media](#)

[addDescription](#), [addDescription](#), [addInstance](#), [addRights](#), [getArtist](#), [getDescription](#), [getInstances](#), [getMediaCreated](#), [getRights](#), [getTitle](#), [removeDescription](#), [removeInstance](#), [removeRights](#), [setArtist](#), [setDescription](#), [setInstances](#), [setMediaCreated](#), [setRights](#), [setTitle](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Constructors

Figure

```
public Figure()
```

eu.etaxonomy.cdm.model.common Interface IDefTerm

All Known Implementing Classes:
[DefinedTermBase](#)

public interface **IDefTerm**
extends

Method Summary

TermVocabulary	getVocabulary()
void	readCsvLine (java.util.List csvLine)
void	setVocabulary (TermVocabulary newVocabulary)
void	writeCsvLine (CSVWriter writer)

Methods

readCsvLine

public void **readCsvLine**(java.util.List csvLine)

writeCsvLine

public void **writeCsvLine**(CSVWriter writer)

getVocabulary

public [TermVocabulary](#) **getVocabulary**()

setVocabulary

public void **setVocabulary**([TermVocabulary](#) newVocabulary)

eu.etaxonomy.cdm.model.common Class IdentifiableEntity

```

java.lang.Object
  |
  +- eu.etaxonomy.cdm.model.common.CdmBase
      |
      +- eu.etaxonomy.cdm.model.common.VersionableEntity
          |
          +- eu.etaxonomy.cdm.model.common.AnnotatableEntity
              |
              +- eu.etaxonomy.cdm.model.common.IdentifiableEntity
  
```

All Implemented Interfaces:

[IOOriginalSource](#), java.io.Serializable

Direct Known Subclasses:

[TaxonBase](#), [TaxonNameBase](#), [Sequence](#), [DescriptionBase](#), [IdentifiableMediaEntity](#)

```

public abstract class IdentifiableEntity
extends AnnotatableEntity
implements java.io.Serializable, IOOriginalSource
  
```

Superclass for the primary CDM classes that can be referenced from outside via LSIDs and contain a simple generated title string as a label for human reading. All subclasses inherit the ability to store additional properties that are stored as [Extensions](#), basically a string value with a type term. Any number of right statements can be attached as well as multiple [OriginalSource](#) objects. Original sources carry a reference to the source, an ID within that source and the original title/label of this object as it was used in that source (originalNameString). A Taxon for example that was taken from 2 sources like FaunaEuropaea and IPNI would have two originalSource objects. The originalSource representing that taxon as it was found in IPNI would contain IPNI as the reference, the IPNI id of the taxon and the name of the taxon exactly as it was used in IPNI.

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	IdentifiableEntity()
--------	--------------------------------------

Method Summary

void	addExtension (Extension extension)
void	addRights (Rights right)
void	addSource (OriginalSource source)
abstract java.lang.String	generateTitle ()
java.util.Set	getExtensions ()
java.lang.String	getLsid ()

java.util.Set	getRights()
java.util.Set	getSources()
java.lang.String	getTitleCache()
boolean	isProtectedTitleCache()
void	removeExtension(Extension extension)
void	removeRights(Rights right)
void	removeSource(OriginalSource source)
void	setExtensions(java.util.Set extensions)
void	setLsid(java.lang.String lsid)
void	setProtectedTitleCache(boolean protectedTitleCache)
void	setRights(java.util.Set rights)
void	setSources(java.util.Set sources)
void	setTitleCache(java.lang.String titleCache)
void	setTitleCache(java.lang.String titleCache, boolean protectCache)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

```
addSource, getSources, removeSource
```

Constructors

IdentifiableEntity

```
public IdentifiableEntity()
```

Methods

getLsid

```
public java.lang.String getLsid()
```

setLsid

```
public void setLsid(java.lang.String lsid)
```

generateTitle

```
public abstract java.lang.String generateTitle()
```

getTitleCache

```
public java.lang.String getTitleCache()
```

setTitleCache

```
public void setTitleCache(java.lang.String titleCache)
```

setTitleCache

```
public void setTitleCache(java.lang.String titleCache,  
                           boolean protectCache)
```

getRights

```
public java.util.Set getRights()
```

setRights

```
protected void setRights(java.util.Set rights)
```

addRights

```
public void addRights(Rights right)
```

removeRights

```
public void removeRights(Rights right)
```

getExtensions

```
public java.util.Set getExtensions()
```

setExtensions

```
protected void setExtensions(java.util.Set extensions)
```

addExtension

```
public void addExtension(Extension extension)
```

removeExtension

```
public void removeExtension(Extension extension)
```

isProtectedTitleCache

```
public boolean isProtectedTitleCache()
```

setProtectedTitleCache

```
public void setProtectedTitleCache(boolean protectedTitleCache)
```

getSources

```
public java.util.Set getSources()
```

(continued from last page)

setSources

protected void **setSources**(java.util.Set sources)

addSource

public void **addSource**([OriginalSource](#) source)

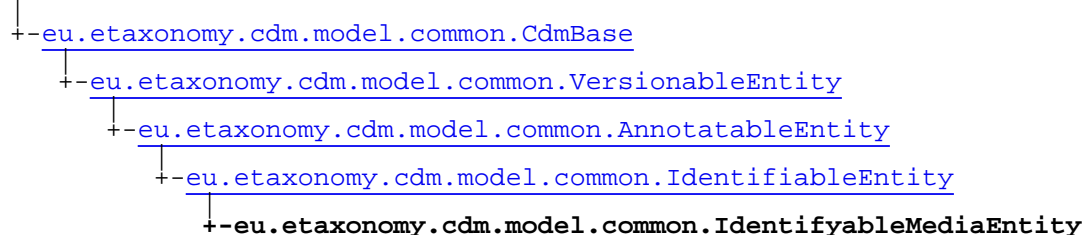
removeSource

public void **removeSource**([OriginalSource](#) source)

eu.etaxonomy.cdm.model.common

Class IdentifiableMediaEntity

java.lang.Object



All Implemented Interfaces:

[IMediaDocumented](#), [java.io.Serializable](#), [IOriginalSource](#)

Direct Known Subclasses:

[ReferenceBase](#), [Collection](#), [SpecimenOrObservationBase](#), [Agent](#)

public abstract class **IdentifiableMediaEntity**

extends [IdentifiableEntity](#)

implements [IOriginalSource](#), [java.io.Serializable](#), [IMediaDocumented](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	IdentifiableMediaEntity()
--------	---

Method Summary

void	addMedia(Media media)
------	---------------------------------------

java.util.Set	getMedia()
---------------	----------------------------

void	removeMedia(Media media)
------	--

void	setMedia(java.util.Set media)
------	---

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

IdentifiableMediaEntity

```
public IdentifiableMediaEntity()
```

Methods

getMedia

```
public java.util.Set getMedia()
```

setMedia

```
protected void setMedia(java.util.Set media)
```

addMedia

```
public void addMedia(Media media)
```

(continued from last page)

removeMedia

```
public void removeMedia(Media media)
```

eu.etaxonomy.cdm.model.common Interface IEvent

All Known Implementing Classes:

[EventBase](#)

```
public interface IEvent
extends
```

Method Summary

Agent	getActor()
TimePeriod	getTimeperiod()
void	setActor(Agent actor)
void	setTimeperiod(TimePeriod timeperiod)

Methods

getTimeperiod

```
public TimePeriod getTimeperiod()
```

setTimeperiod

```
public void setTimeperiod(TimePeriod timeperiod)
```

getActor

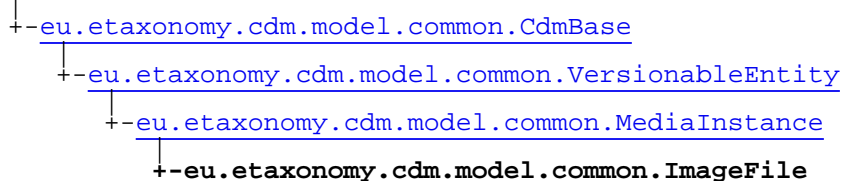
```
public Agent getActor()
```

setActor

```
public void setActor(Agent actor)
```

eu.etaxonomy.cdm.model.common Class ImageFile

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[MovieFile](#)

public class **ImageFile**
extends [MediaInstance](#)

Constructor Summary

public	ImageFile()
--------	-----------------------------

Method Summary

int	getHeight()
int	getWidth()
void	setHeight(int height)
void	setWidth(int width)

Methods inherited from class [eu.etaxonomy.cdm.model.common.MediaInstance](#)

[getMedia](#), [getMimeType](#), [getSize](#), [getUri](#), [setMedia](#), [setMimeType](#), [setSize](#), [setUri](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Constructors**ImageFile**

```
public ImageFile()
```

Methods**getHeight**

```
public int getHeight()
```

setHeight

```
public void setHeight(int height)
```

Parameters:

height - height

getWidth

```
public int getWidth()
```

setWidth

```
public void setWidth(int width)
```

Parameters:

width - width

eu.etaxonomy.cdm.model.common Interface IMediaDocumented

All Known Implementing Classes:

[Sequence](#), [IdentifiableMediaEntity](#)

public interface **IMediaDocumented**
extends

Method Summary

java.util.Set	getMedia()
---------------	----------------------------

Methods

getMedia

public java.util.Set **getMedia()**

eu.etaxonomy.cdm.model.common Interface IOriginalSource

All Known Implementing Classes:

[IdentifiableEntity](#)

public interface **IOriginalSource**
extends

Method Summary

void	addSource (OriginalSource source)
java.util.Set	getSources ()
void	removeSource (OriginalSource source)

Methods

getSources

public java.util.Set **getSources**()

addSource

public void **addSource**([OriginalSource](#) source)

removeSource

public void **removeSource**([OriginalSource](#) source)

eu.etaxonomy.cdm.model.common Interface IReferencedEntity

All Known Implementing Classes:

[TaxonNameBase](#), [Sequence](#), [ReferencedEntityBase](#), [ReferencedMedia](#)

public interface **IReferencedEntity**
extends

Method Summary

ReferenceBase	getCitation()
-------------------------------	-------------------------------

Methods

getCitation

public [ReferenceBase](#) **getCitation()**

eu.etaxonomy.cdm.model.common Interface IRelated

public interface **IRelated**
extends

PLEASE LOOK AT NameRelationship and TaxonRelationship

Parameters:

T

Method Summary

void	addRelationship (RelationshipBase relation)
------	--

Methods

addRelationship

public void **addRelationship**([RelationshipBase](#) relation)

eu.etaxonomy.cdm.model.common Class Keyword

```

java.lang.Object
  |
  +- eu.etaxonomy.cdm.model.common.CdmBase
      |
      +- eu.etaxonomy.cdm.model.common.VersionableEntity
          |
          +- eu.etaxonomy.cdm.model.common.TermBase
              |
              +- eu.etaxonomy.cdm.model.common.DefinedTermBase
                  |
                  +- eu.etaxonomy.cdm.model.common.OrderedTermBase
                      |
                      +- eu.etaxonomy.cdm.model.common.Keyword
  
```

All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#), java.lang.Comparable

```

public class Keyword
extends OrderedTermBase
  
```

simple keywords. could be taxonomic scope, geographic scope or anything else

Fields inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[orderIndex](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	Keyword ()
public	Keyword (java.lang.String term, java.lang.String label)

Methods inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[compareTo](#), [decreaseIndex](#), [equals](#), [incrementIndex](#), [isHigher](#), [isLower](#), [setVocabulary](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#),
[getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#),
[firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#),
[firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#),
[removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#),
[setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`,
`wait`

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Methods inherited from interface `java.lang.Comparable`

`compareTo`

Constructors

Keyword

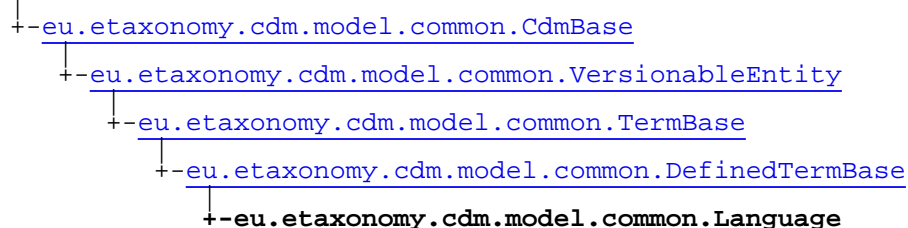
```
public Keyword()
```

Keyword

```
public Keyword(java.lang.String term,  
               java.lang.String label)
```

eu.etaxonomy.cdm.model.common Class Language

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#)

public class **Language**
extends [DefinedTermBase](#)

list of languages according to current internet best practices as given by IANA or ISO codes. <http://www.ietf.org/rfc/rfc4646.txt>
http://www.loc.gov/standards/iso639-2/php/English_list.php

Field Summary

public static final	uuidEnglish
---------------------	-----------------------------

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	Language ()
public	Language (java.util.UUID uuid)
public	Language (char[] iso639_1, char[] iso639_2, java.lang.String englishLabel, java.lang.String frenchLabel)
public	Language (java.lang.String text, java.lang.String label, Language lang)
public	Language (java.lang.String label, java.lang.String text)

Method Summary

static Language	ARABIC ()
static Language	CHINESE ()
static Language	DEFAULT ()

static Language	DUTCH()
static Language	ENGLISH()
static Language	FRENCH()
static Language	GERMAN()
static Language	getUUID(java.util.UUID uuid)
static Language	HINDI()
static Language	ITALIAN()
static Language	JAPANESE()
static Language	POLISH()
static Language	PORTUGUESE()
void	readCsvLine(java.util.List csvLine)
static Language	RUSSIAN()
static Language	SPANISH()
void	writeCsvLine(CSVWriter writer)

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

```
addPropertyChangeListener, addPropertyChangeListener, equals, firePropertyChange,  
firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange,  
firePropertyChange, getCreated, getCreatedBy, getId, getUuid, hasListeners,  
removePropertyChangeListener, removePropertyChangeListener, setCreated, setCreatedBy,  
setId, setUuid, toString
```

Methods inherited from class `java.lang.Object`

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait,  
wait
```

Methods inherited from interface `eu.etaxonomy.cdm.model.common.IDefTerm`

```
getVocabulary, readCsvLine, setVocabulary, writeCsvLine
```

Fields

uuidEnglish

```
public static final java.util.UUID uuidEnglish
```

Constructors

Language

```
public Language()
```

Language

```
public Language(java.util.UUID uuid)
```

Language

```
public Language(char[] iso639_1,  
                char[] iso639_2,  
                java.lang.String englishLabel,  
                java.lang.String frenchLabel)
```

Language

```
public Language(java.lang.String text,  
                java.lang.String label,  
                Language lang)
```

(continued from last page)

Language

```
public Language(java.lang.String label,  
                java.lang.String text)
```

Methods

getUUID

```
public final static Language getUUID(java.util.UUID uuid)
```

DEFAULT

```
public final static Language DEFAULT()
```

CHINESE

```
public final static Language CHINESE()
```

ENGLISH

```
public final static Language ENGLISH()
```

SPANISH

```
public final static Language SPANISH()
```

HINDI

```
public final static Language HINDI()
```

ARABIC

```
public final static Language ARABIC()
```

RUSSIAN

```
public final static Language RUSSIAN()
```


(continued from last page)

PORTUGUESE

```
public final static Language PORTUGUESE()
```

JAPANESE

```
public final static Language JAPANESE()
```

GERMAN

```
public final static Language GERMAN()
```

FRENCH

```
public final static Language FRENCH()
```

ITALIAN

```
public final static Language ITALIAN()
```

DUTCH

```
public final static Language DUTCH()
```

POLISH

```
public final static Language POLISH()
```

readCsvLine

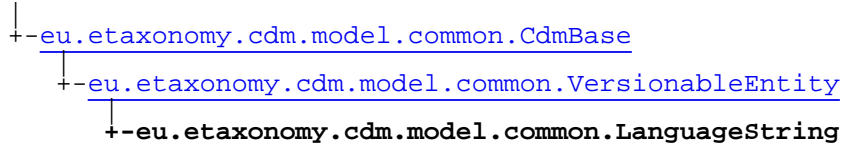
```
public void readCsvLine(java.util.List csvLine)
```

writeCsvLine

```
public void writeCsvLine(CSVWriter writer)
```

eu.etaxonomy.cdm.model.common Class LanguageString

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[Annotation](#), [Representation](#), [Rights](#)

```
public class LanguageString
extends VersionableEntity
```

Field Summary

protected	text
-----------	----------------------

Constructor Summary

public	LanguageString ()
public	LanguageString (java.lang.String text, Language lang)

Method Summary

Language	getLanguage ()
java.lang.String	getLanguageLabel ()
java.lang.String	getLanguageLabel (Language lang)
java.lang.String	getLanguageText ()
java.lang.String	getLanguageText (Language lang)
java.lang.String	getText ()
void	setLanguage (Language language)
void	setText (java.lang.String text)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#),
[getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#),
[firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#),
[firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#),
[removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#),
[setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#),
[wait](#)

Fields

text

protected [java.lang.String](#) **text**

Constructors

LanguageString

public [LanguageString](#)()

LanguageString

public [LanguageString](#)([java.lang.String](#) text,
[Language](#) lang)

Methods

getLanguage

public [Language](#) [getLanguage](#)()

setLanguage

public void [setLanguage](#)([Language](#) language)

(continued from last page)

getText

```
public java.lang.String getText()
```

setText

```
protected void setText(java.lang.String text)
```

getLanguageLabel

```
public java.lang.String getLanguageLabel()
```

getLanguageLabel

```
public java.lang.String getLanguageLabel(Language lang)
```

getLanguageText

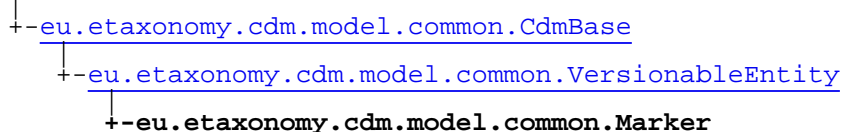
```
public java.lang.String getLanguageText()
```

getLanguageText

```
public java.lang.String getLanguageText(Language lang)
```

eu.etaxonomy.cdm.model.common Class Marker

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

public class **Marker**
extends [VersionableEntity](#)

This class aims to make available some "flags" for identifiable entities in a flexible way. Application developers (and even users) can define their own "flags" as a MarkerType.

Constructor Summary

public	Marker()
--------	--------------------------

Method Summary

boolean	getFlag()
AnnotatableEntity	getMarkedObj()
MarkerType	getType()
void	setFlag(boolean flag)
void	setMarkedObj(AnnotatableEntity newMarkedObject)
void	setType(MarkerType type)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class java.lang.Object

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Constructors

Marker

```
public Marker()
```

Methods

getMarkedObj

```
public AnnotableEntity getMarkedObj()
```

setMarkedObj

```
protected void setMarkedObj(AnnotableEntity newMarkedObject)
```

getType

```
public MarkerType getType()
```

setType

```
public void setType(MarkerType type)
```

getFlag

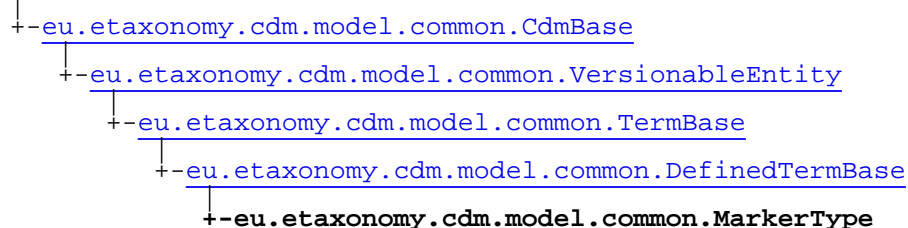
```
public boolean getFlag()
```

setFlag

```
public void setFlag(boolean flag)
```

eu.etaxonomy.cdm.model.common Class MarkerType

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#)

public class **MarkerType**
extends [DefinedTermBase](#)

Marker types similar to dynamically defined attributes. These content types like "IS_DOUBTFUL", "COMPLETE" or specific local flags.

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	MarkerType (java.lang.String term, java.lang.String label)
--------	--

Method Summary

static MarkerType	COMPLETE ()
static MarkerType	IMPORTED ()
static MarkerType	IS_DOUBTFUL ()
static MarkerType	TO_BE_CHECKED ()

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Constructors

MarkerType

```
public MarkerType(java.lang.String term,  
                  java.lang.String label)
```

Methods

IMPORTED

```
public final static MarkerType IMPORTED()
```

TO_BE_CHECKED

```
public final static MarkerType TO_BE_CHECKED()
```

IS_DOUBTFUL

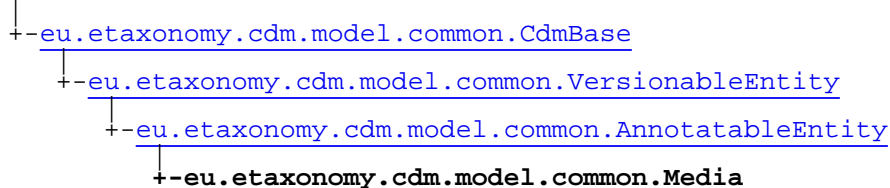
```
public final static MarkerType IS_DOUBTFUL()
```


COMPLETE

```
public final static MarkerType COMPLETE()
```

eu.etaxonomy.cdm.model.common Class Media

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[IdentificationKey](#), [ReferencedMedia](#)

public class **Media**
extends [AnnotatableEntity](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	Media ()
--------	--------------------------

Method Summary

void	addDescription (LanguageString description)
------	--

void	addDescription (java.lang.String text, Language lang)
------	---

void	addInstance (MediaInstance instance)
------	---

void	addRights (Rights rights)
------	--

Agent	getArtist ()
-----------------------	------------------------------

MultilanguageSet	getDescription ()
----------------------------------	-----------------------------------

java.util.Set	getInstances ()
---------------	---------------------------------

java.util.Calendar	getMediaCreated ()
--------------------	------------------------------------

java.util.Set	getRights ()
---------------	------------------------------

MultilanguageSet	getTitle()
void	removeDescription(Language lang)
void	removeInstance(MediaInstance instance)
void	removeRights(Rights rights)
void	setArtist(Agent artist)
void	setDescription(MultilanguageSet description)
void	setInstances(java.util.Set instances)
void	setMediaCreated(java.util.Calendar mediaCreated)
void	setRights(java.util.Set rights)
void	setTitle(MultilanguageSet title)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

Media

```
public Media()
```

(continued from last page)

Methods

getInstances

```
public java.util.Set getInstances()
```

setInstances

```
protected void setInstances(java.util.Set instances)
```

addInstance

```
public void addInstance(MediaInstance instance)
```

removeInstance

```
public void removeInstance(MediaInstance instance)
```

getArtist

```
public Agent getArtist()
```

setArtist

```
public void setArtist(Agent artist)
```

getRights

```
public java.util.Set getRights()
```

setRights

```
protected void setRights(java.util.Set rights)
```

addRights

```
public void addRights(Rights rights)
```

(continued from last page)

removeRights

```
public void removeRights(Rights rights)
```

getTitle

```
public MultilanguageSet getTitle()
```

setTitle

```
public void setTitle(MultilanguageSet title)
```

getMediaCreated

```
public java.util.Calendar getMediaCreated()
```

setMediaCreated

```
public void setMediaCreated(java.util.Calendar mediaCreated)
```

getDescription

```
public MultilanguageSet getDescription()
```

setDescription

```
protected void setDescription(MultilanguageSet description)
```

addDescription

```
public void addDescription(LanguageString description)
```

addDescription

```
public void addDescription(java.lang.String text,  
    Language lang)
```

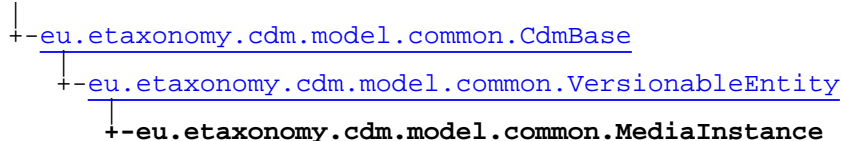
removeDescription

```
public void removeDescription(Language lang)
```

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eu.etaxonomy.cdm.model.common Class MediaInstance

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[AudioFile](#), [ImageFile](#)

```
public class MediaInstance
extends VersionableEntity
```

metadata for an external file such as images, phylogenetic trees, or audio recordings available through the location attribute!

Constructor Summary

public	MediaInstance ()
--------	----------------------------------

Method Summary

Media	getMedia ()
java.lang.String	getMimeType ()
int	getSize ()
java.lang.String	getUri ()
void	setMedia (Media media)
void	setMimeType (java.lang.String mimeType)
void	setSize (int size)
void	setUri (java.lang.String uri)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

MediaInstance

```
public MediaInstance()
```

Methods

getMimeType

```
public java.lang.String getMimeType()
```

setMimeType

```
public void setMimeType(java.lang.String mimeType)
```

Parameters:

mimeType - mimeType

getUri

```
public java.lang.String getUri()
```

setUri

```
public void setUri(java.lang.String uri)
```

Parameters:

uri - uri

getSize

```
public int getSize()
```


(continued from last page)

setSize

```
public void setSize(int size)
```

Parameters:

size - size

getMedia

```
public Media getMedia()
```

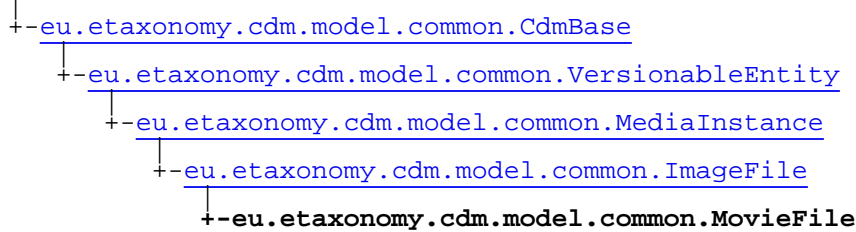
setMedia

```
public void setMedia(Media media)
```

eu.etaxonomy.cdm.model.common

Class MovieFile

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

public class **MovieFile**
 extends [ImageFile](#)

Constructor Summary

public	MovieFile()
--------	-----------------------------

Method Summary

int	getDuration()
-----	-------------------------------

void	setDuration(int duration)
------	---

Methods inherited from class [eu.etaxonomy.cdm.model.common.ImageFile](#)

[getHeight](#), [getWidth](#), [setHeight](#), [setWidth](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.MediaInstance](#)

[getMedia](#), [getMimeType](#), [getSize](#), [getUri](#), [setMedia](#), [setMimeType](#), [setSize](#), [setUri](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class java.lang.Object

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Constructors

MovieFile

```
public MovieFile()
```

Methods

getDuration

```
public int getDuration()
```

setDuration

```
public void setDuration(int duration)
```

Parameters:

duration - duration

eu.etaxonomy.cdm.model.common Class MultilanguageSet

```

java.lang.Object
  |-- java.util.AbstractCollection
        |-- java.util.AbstractSet
              |-- java.util.HashSet
                    +- eu.etaxonomy.cdm.model.common.MultilanguageSet
  
```

All Implemented Interfaces:

java.util.Collection, java.util.Set, java.io.Serializable, java.lang.Cloneable, java.util.Set

```

public class MultilanguageSet
extends java.util.HashSet
  
```

Constructor Summary

public	MultilanguageSet()
--------	------------------------------------

Method Summary

void	add (java.lang.String text, Language lang)
LanguageString	get (Language lang)
void	remove (Language lang)

Methods inherited from class java.util.HashSet

add, clear, clone, contains, isEmpty, iterator, remove, size

Methods inherited from class java.util.AbstractSet

equals, hashCode, removeAll

Methods inherited from class java.util.AbstractCollection

add, addAll, clear, contains, containsAll, isEmpty, iterator, remove, removeAll, retainAll, size, toArray, toArray, toString

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface java.util.Collection

add, addAll, clear, contains, containsAll, equals, hashCode, isEmpty, iterator, remove, removeAll, retainAll, size, toArray, toArray

Methods inherited from interface java.lang.Iterable

iterator

Methods inherited from interface java.util.Set

add, addAll, clear, contains, containsAll, equals, hashCode, isEmpty, iterator, remove, removeAll, retainAll, size, toArray, toArray

Methods inherited from interface java.util.Collection

add, addAll, clear, contains, containsAll, equals, hashCode, isEmpty, iterator, remove, removeAll, retainAll, size, toArray, toArray

Methods inherited from interface java.lang.Iterable

iterator

Methods inherited from interface java.util.Set

add, addAll, clear, contains, containsAll, equals, hashCode, isEmpty, iterator, remove, removeAll, retainAll, size, toArray, toArray

Methods inherited from interface java.util.Collection

add, addAll, clear, contains, containsAll, equals, hashCode, isEmpty, iterator, remove, removeAll, retainAll, size, toArray, toArray

Methods inherited from interface java.lang.Iterable

iterator

Constructors

MultilanguageSet

```
public MultilanguageSet()
```

Methods

add

```
public void add(java.lang.String text,  
               Language lang)
```

remove

```
public void remove(Language lang)
```

get

```
public LanguageString get(Language lang)
```

eu.etaxonomy.cdm.model.common Class NoDefinedTermClassException

```

java.lang.Object
  |
  +- java.lang.Throwable
    |
    +- java.lang.Exception
      |
      +- eu.etaxonomy.cdm.model.common.NoDefinedTermClassException
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class NoDefinedTermClassException
extends java.lang.Exception
  
```

Constructor Summary

public	NoDefinedTermClassException()
public	NoDefinedTermClassException (java.lang.String arg0)
public	NoDefinedTermClassException (java.lang.Throwable arg0)
public	NoDefinedTermClassException (java.lang.String arg0, java.lang.Throwable arg1)

Methods inherited from class java.lang.Throwable

fillInStackTrace, getCause, getLocalizedMessage, getMessage, getStackTrace, initCause, printStackTrace, printStackTrace, printStackTrace, setStackTrace, toString

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

NoDefinedTermClassException

```
public NoDefinedTermClassException()
```

NoDefinedTermClassException

```
public NoDefinedTermClassException(java.lang.String arg0)
```

NoDefinedTermClassException

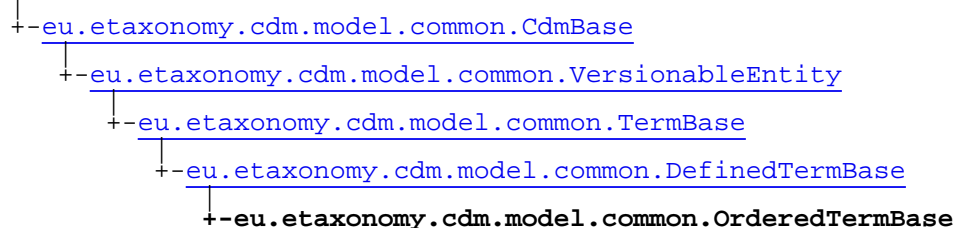
```
public NoDefinedTermClassException(java.lang.Throwable arg0)
```

NoDefinedTermClassException

```
public NoDefinedTermClassException(java.lang.String arg0,  
                                   java.lang.Throwable arg1)
```


eu.etaxonomy.cdm.model.common Class OrderedTermBase

java.lang.Object



All Implemented Interfaces:

java.lang.Comparable, java.io.Serializable, [IDefTerm](#)

Direct Known Subclasses:

[NomenclaturalStatusType](#), [Rank](#), [TypeDesignationStatus](#), [NamedArea](#), [NamedAreaLevel](#), [Modifier](#), [PresenceAbsenceTermBase](#), [State](#), [Keyword](#), [RelationshipTermBase](#)

public abstract class **OrderedTermBase**

extends [DefinedTermBase](#)

implements [IDefTerm](#), java.io.Serializable, java.lang.Comparable

Field Summary

protected	orderIndex
-----------	----------------------------

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	OrderedTermBase ()
public	OrderedTermBase (java.lang.String term, java.lang.String label)

Method Summary

int	compareTo (OrderedTermBase orderedTerm)
boolean	decreaseIndex (OrderedTermVocabulary vocabulary) To be used only by OrderedTermVocabulary
boolean	equals (java.lang.Object o)
boolean	incrementIndex (OrderedTermVocabulary vocabulary) To be used only by OrderedTermVocabulary

boolean	isHigher (OrderedTermBase orderedTerm) If this term is higher than the parameter term, true is returned, else false.
boolean	isLower (OrderedTermBase orderedTerm) If this term is lower than the parameter term, true is returned, else false.
void	setVocabulary (TermVocabulary newVocabulary)

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Methods inherited from interface [java.lang.Comparable](#)

[compareTo](#)

Fields

orderIndex

protected int **orderIndex**

Constructors

OrderedTermBase

```
public OrderedTermBase()
```

OrderedTermBase

```
public OrderedTermBase(java.lang.String term,  
                        java.lang.String label)
```

Methods

compareTo

```
public int compareTo(OrderedTermBase orderedTerm)
```

isLower

```
public boolean isLower(OrderedTermBase orderedTerm)
```

If this term is lower than the parameter term, true is returned, else false. If the parameter term is null, an Exception is thrown.

Parameters:

orderedTerm

Returns:

boolean result of the comparison

isHigher

```
public boolean isHigher(OrderedTermBase orderedTerm)
```

If this term is higher than the parameter term, true is returned, else false. If the parameter term is null, an Exception is thrown.

Parameters:

orderedTerm

Returns:

boolean result of the comparison

setVocabulary

```
public void setVocabulary(TermVocabulary newVocabulary)
```

(continued from last page)

decreaseIndex

```
public boolean decreaseIndex(OrderedTermVocabulary vocabulary)
```

To be used only by OrderedTermVocabulary

incrementIndex

```
public boolean incrementIndex(OrderedTermVocabulary vocabulary)
```

To be used only by OrderedTermVocabulary

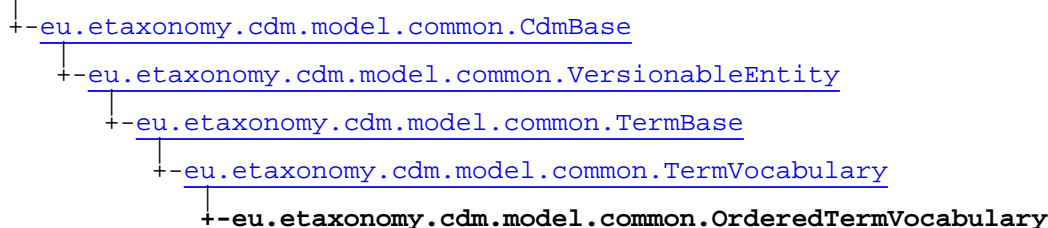
equals

```
public boolean equals(java.lang.Object o)
```

Is true if UUID and created timestamp are the same for the passed Object and this one.

eu.etaxonomy.cdm.model.common Class OrderedTermVocabulary

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, java.lang.Iterable

public class **OrderedTermVocabulary**
extends [TermVocabulary](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.TermVocabulary](#)

[termClass](#), [terms](#)

Constructor Summary

public	OrderedTermVocabulary ()
public	OrderedTermVocabulary (java.lang.String term, java.lang.String label, java.lang.String termSourceUri)

Method Summary

void	addTerm (OrderedTermBase term)
void	addTermAbove (OrderedTermBase termToBeAdded, OrderedTermBase lowerTerm)
void	addTermBelow (OrderedTermBase termToBeAdded, OrderedTermBase higherTerm)
java.util.SortedSet	getEqualTerms (OrderedTermBase otb)
java.util.SortedSet	getHigherAndEqualTerms (OrderedTermBase otb)
java.util.SortedSet	getHigherTerms (OrderedTermBase otb)
OrderedTermBase	getHighestTerm ()
java.util.SortedSet	getLowerAndEqualTerms (OrderedTermBase otb)
java.util.SortedSet	getLowerTerms (OrderedTermBase otb)

OrderedTermBase	getLowestTerm()
java.util.Set	getNewTermSet()
OrderedTermBase	getNextHigherTerm(OrderedTermBase otb)
OrderedTermBase	getNextLowerTerm(OrderedTermBase otb)
boolean	indexChangeAllowed(OrderedTermBase otb)
void	removeTerm(OrderedTermBase term)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermVocabulary](#)

[addTerm](#), [findByUuid](#), [getNewTermSet](#), [getPersistentTerms](#), [getTermClass](#), [getTerms](#), [getTermSourceUri](#), [getUUID](#), [iterator](#), [LANGUAGE](#), [removeTerm](#), [setPersistentTerms](#), [setTerms](#), [setTermSourceUri](#), [size](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface java.lang.Iterable

iterator

Constructors

OrderedTermVocabulary

```
public OrderedTermVocabulary()
```

OrderedTermVocabulary

```
public OrderedTermVocabulary(java.lang.String term,  
                             java.lang.String label,  
                             java.lang.String termSourceUri)
```

Parameters:

```
term  
label  
termSourceUri
```

Methods

getNewTermSet

```
protected java.util.Set getNewTermSet()
```

getHigherAndEqualTerms

```
public java.util.SortedSet getHigherAndEqualTerms(OrderedTermBase otb)
```

getHigherTerms

```
public java.util.SortedSet getHigherTerms(OrderedTermBase otb)
```

getLowerAndEqualTerms

```
public java.util.SortedSet getLowerAndEqualTerms(OrderedTermBase otb)
```

getLowerTerms

```
public java.util.SortedSet getLowerTerms(OrderedTermBase otb)
```

getEqualTerms

```
public java.util.SortedSet getEqualTerms(OrderedTermBase otb)
```

getNextHigherTerm

```
public OrderedTermBase getNextHigherTerm(OrderedTermBase otb)
```

getNextLowerTerm

```
public OrderedTermBase getNextLowerTerm(OrderedTermBase otb)
```

getLowestTerm

```
public OrderedTermBase getLowestTerm()
```

getHighestTerm

```
public OrderedTermBase getHighestTerm()
```

addTerm

```
public void addTerm(OrderedTermBase term)  
    throws WrongTermTypeException
```

addTermAbove

```
public void addTermAbove(OrderedTermBase termToBeAdded,  
    OrderedTermBase lowerTerm)  
    throws WrongTermTypeException
```

addTermBelow

```
public void addTermBelow(OrderedTermBase termToBeAdded,  
    OrderedTermBase higherTerm)  
    throws WrongTermTypeException
```

removeTerm

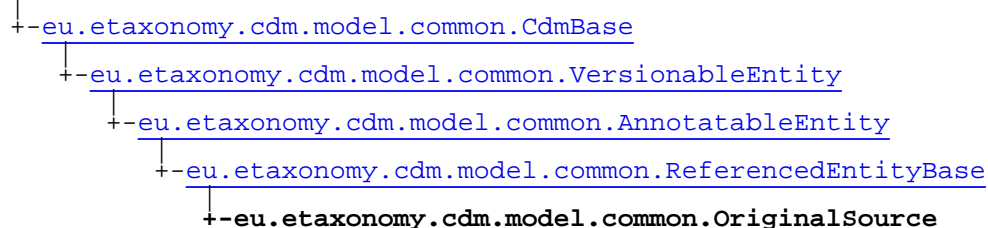
```
public void removeTerm(OrderedTermBase term)
```

indexChangeAllowed

```
public boolean indexChangeAllowed(OrderedTermBase otb)
```

eu.etaxonomy.cdm.model.common Class OriginalSource

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IReferencedEntity](#)

public class **OriginalSource**
extends [ReferencedEntityBase](#)

Other names/labels/titles (abbreviated or not) for the same object (person, reference, source, etc.)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	OriginalSource()
--------	----------------------------------

Method Summary

java.lang.String	getIdInSource()
------------------	---------------------------------

IdentifiableEntity	getSourceObj()
------------------------------------	--------------------------------

void	setIdInSource (java.lang.String idInSource)
------	---

void	setSourceObj (IdentifiableEntity sourcedObj)
------	---

Methods inherited from class [eu.etaxonomy.cdm.model.common.ReferencedEntityBase](#)

[getCitation](#), [getCitationMicroReference](#), [getOriginalNameString](#), [setCitation](#), [setCitationMicroReference](#), [setOriginalNameString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Constructors

OriginalSource

```
public OriginalSource()
```

Methods

getIdInSource

```
public java.lang.String getIdInSource()
```

setIdInSource

```
public void setIdInSource(java.lang.String idInSource)
```

getSourceObj

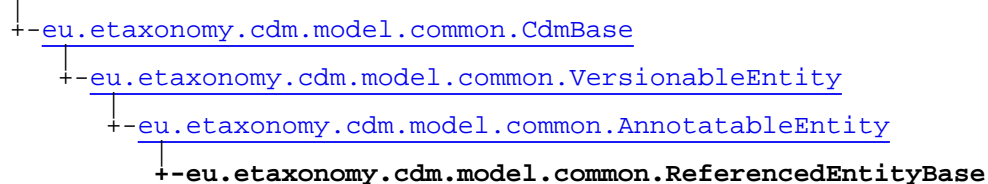
```
public IdentifiableEntity getSourceObj()
```

setSourceObj

```
public void setSourceObj(IdentifiableEntity sourcedObj)
```

eu.etaxonomy.cdm.model.common Class ReferencedEntityBase

java.lang.Object



All Implemented Interfaces:

[IReferencedEntity](#), java.io.Serializable

Direct Known Subclasses:

[SynonymRelationship](#), [TaxonRelationship](#), [HybridRelationship](#), [NameRelationship](#), [NameTypeDesignation](#), [NomenclaturalStatus](#), [SpecimenTypeDesignation](#), [FeatureBase](#), [OriginalSource](#), [RelationshipBase](#)

public abstract class **ReferencedEntityBase**

extends [AnnotatableEntity](#)

implements java.io.Serializable, [IReferencedEntity](#)

abstract class for all objects that may have a reference

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	ReferencedEntityBase ()
public	ReferencedEntityBase (ReferenceBase citation, java.lang.String citationMicroReference, java.lang.String originalNameString)

Method Summary

ReferenceBase	getCitation ()
java.lang.String	getCitationMicroReference ()
java.lang.String	getOriginalNameString ()
void	setCitation (ReferenceBase citation)
void	setCitationMicroReference (java.lang.String citationMicroReference)
void	setOriginalNameString (java.lang.String originalNameString)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Constructors

ReferencedEntityBase

```
public ReferencedEntityBase()
```

ReferencedEntityBase

```
public ReferencedEntityBase(ReferenceBase citation,
                             java.lang.String citationMicroReference,
                             java.lang.String originalNameString)
```

Methods

getCitationMicroReference

```
public java.lang.String getCitationMicroReference()
```

setCitationMicroReference

```
public void setCitationMicroReference(java.lang.String citationMicroReference)
```

getOriginalNameString

```
public java.lang.String getOriginalNameString()
```

setOriginalNameString

```
public void setOriginalNameString(java.lang.String originalNameString)
```

getCitation

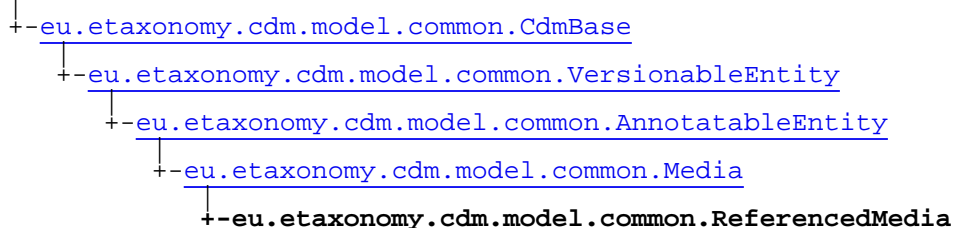
```
public ReferenceBase getCitation()
```

setCitation

```
public void setCitation(ReferenceBase citation)
```

eu.etaxonomy.cdm.model.common Class ReferencedMedia

java.lang.Object



All Implemented Interfaces:

[IReferencedEntity](#), java.io.Serializable

Direct Known Subclasses:

[PhylogeneticTree](#), [Figure](#)

public abstract class **ReferencedMedia**

extends [Media](#)

implements java.io.Serializable, [IReferencedEntity](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	ReferencedMedia ()
--------	------------------------------------

Method Summary

ReferenceBase	getCitation ()
-------------------------------	--------------------------------

java.lang.String	getCitationMicroReference ()
------------------	--

void	setCitation (ReferenceBase citation)
------	---

void	setCitationMicroReference (java.lang.String citationMicroReference)
------	---

Methods inherited from class [eu.etaxonomy.cdm.model.common.Media](#)

[addDescription](#), [addDescription](#), [addInstance](#), [addRights](#), [getArtist](#), [getDescription](#), [getInstances](#), [getMediaCreated](#), [getRights](#), [getTitle](#), [removeDescription](#), [removeInstance](#), [removeRights](#), [setArtist](#), [setDescription](#), [setInstances](#), [setMediaCreated](#), [setRights](#), [setTitle](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Constructors

ReferencedMedia

```
public ReferencedMedia()
```

Methods

getCitation

```
public ReferenceBase getCitation()
```

setCitation

```
public void setCitation(ReferenceBase citation)
```

getCitationMicroReference

```
public java.lang.String getCitationMicroReference()
```

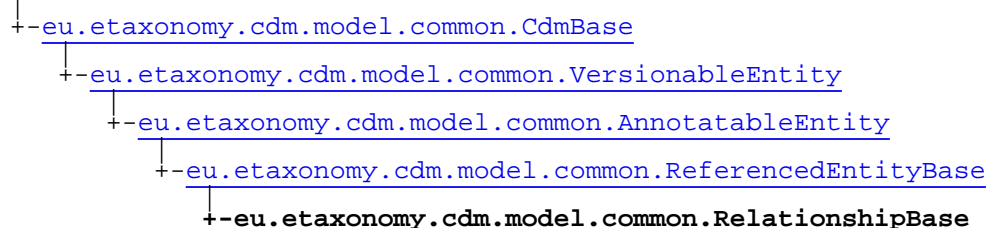
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setCitationMicroReference

```
public void setCitationMicroReference(java.lang.String citationMicroReference)
```


eu.etaxonomy.cdm.model.common Class RelationshipBase

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IReferencedEntity](#)

public abstract class **RelationshipBase**
extends [ReferencedEntityBase](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

protected	RelationshipBase (IRelated from, IRelated to, RelationshipTermBase type, ReferenceBase citation, java.lang.String citationMicroReference) creates a relationship between 2 names and adds this relationship object to the respective name relation sets
-----------	---

Method Summary

IRelated	getRelationFrom ()
--------------------------	------------------------------------

IRelated	getRelationTo ()
--------------------------	----------------------------------

RelationshipTermBase	getType ()
--------------------------------------	----------------------------

Methods inherited from class [eu.etaxonomy.cdm.model.common.ReferencedEntityBase](#)

[getCitation](#), [getCitationMicroReference](#), [getOriginalNameString](#), [setCitation](#), [setCitationMicroReference](#), [setOriginalNameString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Constructors

RelationshipBase

```
protected RelationshipBase(IRelated from,  
                           IRelated to,  
                           RelationshipTermBase type,  
                           ReferenceBase citation,  
                           java.lang.String citationMicroReference)
```

creates a relationship between 2 names and adds this relationship object to the respective name relation sets

Parameters:

`toName`
`fromName`
`type`
`ruleConsidered`

Methods

getType

```
public RelationshipTermBase getType()
```

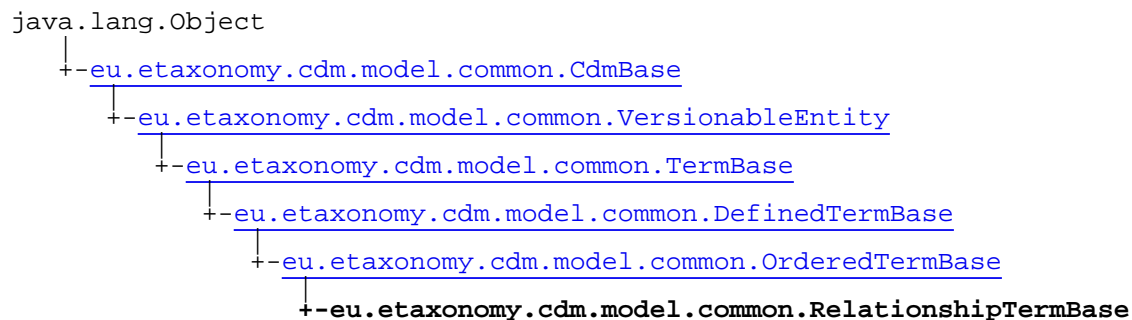
getRelationFrom

```
public IRelated getRelationFrom()
```

getRelationTo

```
public IRelated getRelationTo()
```

eu.etaxonomy.cdm.model.common Class RelationshipTermBase



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#), java.lang.Comparable

Direct Known Subclasses:

[SynonymRelationshipType](#), [TaxonRelationshipType](#), [HybridRelationshipType](#), [NameRelationshipType](#)

public abstract class **RelationshipTermBase**
extends [OrderedTermBase](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[orderIndex](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	RelationshipTermBase ()
public	RelationshipTermBase (java.lang.String term, java.lang.String label, boolean symmetric, boolean transitive)

Method Summary

void	addInverseRepresentation (Representation inverseRepresentation)
void	addRepresentation (Representation representation, Representation inverseRepresentation)
java.lang.String	getInverseDescription ()
java.lang.String	getInverseDescription (Language lang)
java.lang.String	getInverseLabel ()

java.lang.String	getInverseLabel(Language lang)
Representation	getInverseRepresentation(Language lang)
java.util.Set	getInverseRepresentations()
boolean	isSymmetric()
boolean	isTransitive()
void	readCsvLine(java.util.List csvLine)
void	removeInverseRepresentation(Representation inverseRepresentation)
void	setInverseRepresentations(java.util.Set inverseRepresentations)
void	setSymmetric(boolean symmetric)
void	setTransitive(boolean transitive)
void	writeCsvLine(CSVWriter writer)

Methods inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[compareTo](#), [decreaseIndex](#), [equals](#), [incrementIndex](#), [isHigher](#), [isLower](#), [setVocabulary](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Methods inherited from interface `java.lang.Comparable`

`compareTo`

Constructors

RelationshipTermBase

```
public RelationshipTermBase()
```

RelationshipTermBase

```
public RelationshipTermBase(java.lang.String term,  
                           java.lang.String label,  
                           boolean symmetric,  
                           boolean transitive)
```

Methods

isSymmetric

```
public boolean isSymmetric()
```

setSymmetric

```
public void setSymmetric(boolean symmetric)
```

isTransitive

```
public boolean isTransitive()
```

setTransitive

```
public void setTransitive(boolean transitive)
```

getInverseRepresentations

```
public java.util.Set getInverseRepresentations()
```

setInverseRepresentations

```
protected void setInverseRepresentations(java.util.Set inverseRepresentations)
```

addInverseRepresentation

```
public void addInverseRepresentation(Representation inverseRepresentation)
```

removeInverseRepresentation

```
public void removeInverseRepresentation(Representation inverseRepresentation)
```

addRepresentation

```
public void addRepresentation(Representation representation,  
    Representation inverseRepresentation)
```

getInverseRepresentation

```
public Representation getInverseRepresentation(Language lang)
```

getInverseLabel

```
public java.lang.String getInverseLabel()
```

getInverseLabel

```
public java.lang.String getInverseLabel(Language lang)
```

getInverseDescription

```
public java.lang.String getInverseDescription()
```

(continued from last page)

getInverseDescription

```
public java.lang.String getInverseDescription(Language lang)
```

readCsvLine

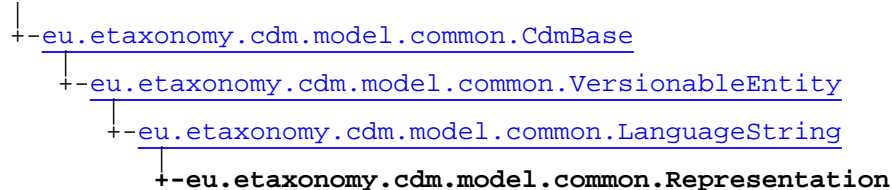
```
public void readCsvLine(java.util.List csvLine)
```

writeCsvLine

```
public void writeCsvLine(CSVWriter writer)
```

eu.etaxonomy.cdm.model.common Class Representation

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

public class **Representation**

extends [LanguageString](#)

workaround for enumerations

Fields inherited from class [eu.etaxonomy.cdm.model.common.LanguageString](#)

[text](#)

Constructor Summary

public	Representation ()
public	Representation (java.lang.String text, java.lang.String label, Language lang)

Method Summary

java.lang.String	getAbbreviatedLabel ()
java.lang.String	getDescription ()
java.lang.String	getLabel ()
void	setAbbreviatedLabel (java.lang.String abbreviatedLabel)
void	setDescription (java.lang.String text)
void	setLabel (java.lang.String label)
java.lang.String	toString ()

Methods inherited from class [eu.etaxonomy.cdm.model.common.LanguageString](#)

[getLanguage](#), [getLanguageLabel](#), [getLanguageLabel](#), [getLanguageText](#), [getLanguageText](#), [getText](#), [setLanguage](#), [setText](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#),
[getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#),
[firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#),
[firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#),
[removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#),
[setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#),
[wait](#)

Constructors

Representation

```
public Representation()
```

Representation

```
public Representation(java.lang.String text,  
                      java.lang.String label,  
                      Language lang)
```

Methods

getLabel

```
public java.lang.String getLabel()
```

setLabel

```
public void setLabel(java.lang.String label)
```

getAbbreviatedLabel

```
public java.lang.String getAbbreviatedLabel()
```

(continued from last page)

setAbbreviatedLabel

```
public void setAbbreviatedLabel(java.lang.String abbreviatedLabel)
```

getDescription

```
public java.lang.String getDescription()
```

setDescription

```
protected void setDescription(java.lang.String text)
```

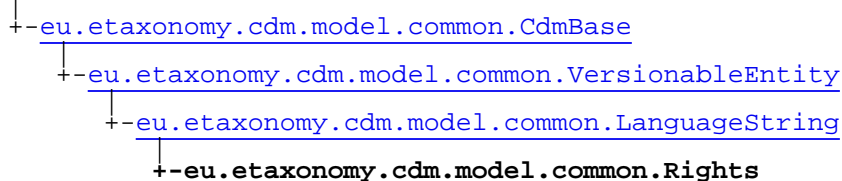
toString

```
public java.lang.String toString()
```

Returns the class, id and uuid as a string for any CDM object. For example: Taxon#13

eu.etaxonomy.cdm.model.common Class Rights

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

public class **Rights**
extends [LanguageString](#)

Typically, rights information includes a statement about various property rights associated with the resource, including intellectual property rights. <http://purl.org/dc/elements/1.1/rights> <http://dublincore.org/documents/dcmi-terms/>

Fields inherited from class [eu.etaxonomy.cdm.model.common.LanguageString](#)

[text](#)

Constructor Summary

public [Rights](#)(java.lang.String text, [Language](#) lang)

Method Summary

java.lang.String [getAbbreviatedText](#)()

[Agent](#) [getAgent](#)()

[RightsTerm](#) [getType](#)()

java.lang.String [getUri](#)()

void [setAbbreviatedText](#)(java.lang.String abbreviatedStatement)

void [setAgent](#)([Agent](#) agent)

void [setType](#)([RightsTerm](#) type)

void [setUri](#)(java.lang.String uri)

Methods inherited from class [eu.etaxonomy.cdm.model.common.LanguageString](#)

[getLanguage](#), [getLanguageLabel](#), [getLanguageLabel](#), [getLanguageText](#), [getLanguageText](#), [getText](#), [setLanguage](#), [setText](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

Rights

```
public Rights(java.lang.String text,  
              Language lang)
```

Methods

getType

```
public RightsTerm getType()
```

setType

```
public void setType(RightsTerm type)
```

getUri

```
public java.lang.String getUri()
```

setUri

```
public void setUri(java.lang.String uri)
```

(continued from last page)

getAbbreviatedText

```
public java.lang.String getAbbreviatedText()
```

setAbbreviatedText

```
public void setAbbreviatedText(java.lang.String abbreviatedStatement)
```

getAgent

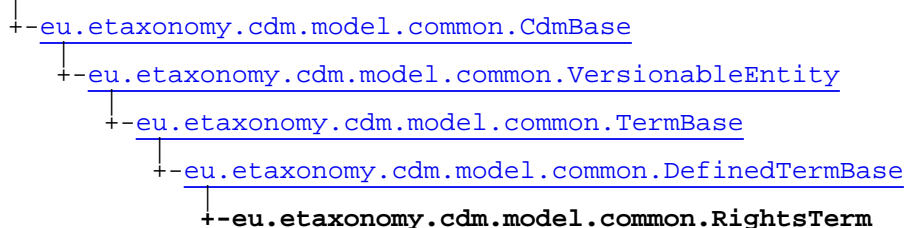
```
public Agent getAgent()
```

setAgent

```
public void setAgent(Agent agent)
```

eu.etaxonomy.cdm.model.common Class RightsTerm

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#)

public class **RightsTerm**
extends [DefinedTermBase](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public [RightsTerm](#)(java.lang.String term, java.lang.String label)

Method Summary

static [RightsTerm](#) [ACCESS_RIGHTS](#)()
[http://purl.org/dc/terms/accessRights](#)

static [RightsTerm](#) [COPYRIGHT](#)()

static [RightsTerm](#) [LICENSE](#)()

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#),
[getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#),
[firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#),
[firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#),
[removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#),
[setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#),
[wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Constructors

RightsTerm

```
public RightsTerm(java.lang.String term,  
                  java.lang.String label)
```

Methods

ACCESS_RIGHTS

```
public final static RightsTerm ACCESS_RIGHTS()  
  
    http://purl.org/dc/terms/accessRights
```

COPYRIGHT

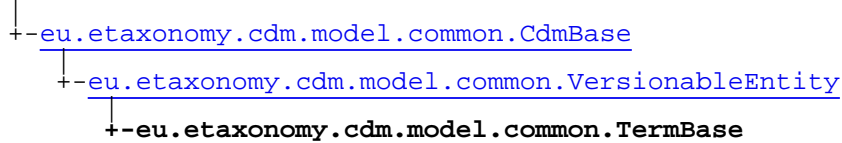
```
public final static RightsTerm COPYRIGHT()
```

LICENSE

```
public final static RightsTerm LICENSE()
```

eu.etaxonomy.cdm.model.common Class TermBase

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[FeatureTree](#), [DefinedTermBase](#), [TermVocabulary](#)

public abstract class **TermBase**
extends [VersionableEntity](#)

Constructor Summary

public	TermBase()
public	TermBase (java.lang.String term, java.lang.String label)

Method Summary

void	addRepresentation (Representation representation)
boolean	equals (java.lang.Object obj)
java.lang.String	getDescription ()
java.lang.String	getDescription (Language lang)
java.lang.String	getLabel ()
java.lang.String	getLabel (Language lang)
Representation	getRepresentation (Language lang)
java.util.Set	getRepresentations ()
java.lang.String	getUri ()
void	removeRepresentation (Representation representation)
void	setRepresentations (java.util.Set representations)

void	setUri (java.lang.String uri)
java.lang.String	toString ()

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

TermBase

```
public TermBase()
```

TermBase

```
public TermBase(java.lang.String term,
                java.lang.String label)
```

Methods

getRepresentations

```
public java.util.Set getRepresentations()
```

setRepresentations

```
public void setRepresentations(java.util.Set representations)
```

addRepresentation

```
public void addRepresentation(Representation representation)
```

(continued from last page)

removeRepresentation

```
public void removeRepresentation(Representation representation)
```

getRepresentation

```
public Representation getRepresentation(Language lang)
```

getUri

```
public java.lang.String getUri()
```

setUri

```
public void setUri(java.lang.String uri)
```

getLabel

```
public java.lang.String getLabel()
```

getLabel

```
public java.lang.String getLabel(Language lang)
```

getDescription

```
public java.lang.String getDescription()
```

getDescription

```
public java.lang.String getDescription(Language lang)
```

equals

```
public boolean equals(java.lang.Object obj)
```

Is true if UUID and created timestamp are the same for the passed Object and this one.

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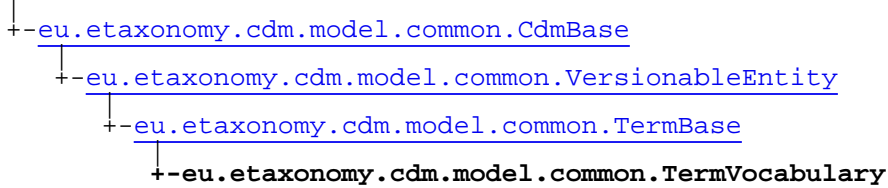
toString

```
public java.lang.String toString()
```

Returns the class, id and uuid as a string for any CDM object. For example: Taxon#13

eu.etaxonomy.cdm.model.common Class TermVocabulary

java.lang.Object



All Implemented Interfaces:

java.lang.Iterable, java.io.Serializable

Direct Known Subclasses:

[OrderedTermVocabulary](#)

public class **TermVocabulary**

extends [TermBase](#)

implements java.io.Serializable, java.lang.Iterable

A single enumeration must only contain DefinedTerm instances of one kind (=class)

Field Summary

protected	termClass
public	terms

Constructor Summary

public	TermVocabulary()
public	TermVocabulary (java.lang.String term, java.lang.String label, java.lang.String termSourceUri)

Method Summary

void	addTerm (DefinedTermBase term)
static TermVocabulary	findByUuid (java.util.UUID uuid)
java.util.Set	getNewTermSet ()
java.util.Set	getPersistentTerms ()
java.lang.Class	getTermClass ()
java.util.Set	getTerms ()

java.lang.String	getTermSourceUri()
static TermVocabulary	getUUID (java.util.UUID uuid)
java.util.Iterator	iterator ()
static TermVocabulary	LANGUAGE ()
void	removeTerm (DefinedTermBase term)
void	setPersistentTerms (java.util.Set terms)
void	setTerms (java.util.Set terms)
void	setTermSourceUri (java.lang.String vocabularyUri)
int	size ()

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface java.lang.Iterable

iterator

Fields

termClass

protected java.lang.Class **termClass**

(continued from last page)

terms

```
public java.util.Set terms
```

Constructors

TermVocabulary

```
public TermVocabulary()
```

TermVocabulary

```
public TermVocabulary(java.lang.String term,  
                      java.lang.String label,  
                      java.lang.String termSourceUri)
```

Methods

findByUuid

```
public static TermVocabulary findByUuid(java.util.UUID uuid)
```

getUUID

```
public final static TermVocabulary getUUID(java.util.UUID uuid)
```

LANGUAGE

```
public final static TermVocabulary LANGUAGE()
```

getNewTermSet

```
protected java.util.Set getNewTermSet()
```

getTerms

```
public java.util.Set getTerms()
```

(continued from last page)

setTerms

```
protected void setTerms(java.util.Set terms)
```

getPersistentTerms

```
public java.util.Set getPersistentTerms()
```

setPersistentTerms

```
protected void setPersistentTerms(java.util.Set terms)
```

addTerm

```
public void addTerm(DefinedTermBase term)  
    throws WrongTermTypeException
```

removeTerm

```
public void removeTerm(DefinedTermBase term)
```

getTermSourceUri

```
public java.lang.String getTermSourceUri()
```

setTermSourceUri

```
public void setTermSourceUri(java.lang.String vocabularyUri)
```

getTermClass

```
public java.lang.Class getTermClass()
```

iterator

```
public java.util.Iterator iterator()
```

size

```
public int size()
```

(continued from last page)

eu.etaxonomy.cdm.model.common Class TimePeriod

java.lang.Object

└-eu.etaxonomy.cdm.model.common.TimePeriod

public class **TimePeriod**
extends java.lang.Object

Constructor Summary

public	TimePeriod()
public	TimePeriod (java.util.Calendar startDate)
public	TimePeriod (java.util.Calendar startDate, java.util.Calendar endDate)

Method Summary

java.util.Calendar	getEnd()
java.util.Calendar	getStart()
void	setEnd (java.util.Calendar end)
void	setStart (java.util.Calendar start)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

TimePeriod

public **TimePeriod**()

TimePeriod

public **TimePeriod**(java.util.Calendar startDate)

(continued from last page)

TimePeriod

```
public TimePeriod(java.util.Calendar startDate,  
                  java.util.Calendar endDate)
```

Methods

getStart

```
public java.util.Calendar getStart()
```

setStart

```
public void setStart(java.util.Calendar start)
```

getEnd

```
public java.util.Calendar getEnd()
```

setEnd

```
public void setEnd(java.util.Calendar end)
```

eu.etaxonomy.cdm.model.common Class VersionableEntity

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

Direct Known Subclasses:

[GenBankAccession](#), [Locus](#), [FeatureNode](#), [StateData](#), [StatisticalMeasurementValue](#), [AnnotatableEntity](#), [Extension](#), [LanguageString](#), [Marker](#), [MediaInstance](#), [TermBase](#), [Address](#), [Contact](#), [InstitutionalMembership](#)

public abstract class **VersionableEntity**

extends [CdmBase](#)

The class keeps track of versions via a full linked list to different version objects, or a simple updated/updatedBy property in the same object. Full versioning allows concrete subclasses to keep track of previous or later versions of an object. A different version is another (persistent) java object, but with the same UUID. The version history is established as a linked list of the version objects in time. If versioning via the linked list is used, updated/updatedBy is the same as created/createdBy (better NULL?). Versioning can be turned off and in this case this class provides updated/updatedBy to keep track of the latest change event.

Parameters:

T

Constructor Summary

public	VersionableEntity()
--------	-------------------------------------

Method Summary

VersionableEntity	getNextVersion() Returns the succeeding version of this object with the same UUID
VersionableEntity	getPreviousVersion()
java.util.Calendar	getUpdated()
Person	getUpdatedBy()
java.util.Calendar	getValidFrom() based on created
java.util.Calendar	getValidTo() based on updated
void	setNextVersion(VersionableEntity nextVersion)
void	setPreviousVersion(VersionableEntity previousVersion)
void	setUpdated(java.util.Calendar updated)

void	setUpdatedBy(Person) updatedBy)
------	---

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

VersionableEntity

```
public VersionableEntity()
```

Methods

getNextVersion

```
public VersionableEntity getNextVersion()
```

Returns the succeeding version of this object with the same UUID

Returns:

next, i.e. succeeding version of this object

setNextVersion

```
public void setNextVersion(VersionableEntity nextVersion)
```

getPreviousVersion

```
public VersionableEntity getPreviousVersion()
```

setPreviousVersion

```
public void setPreviousVersion(VersionableEntity previousVersion)
```

(continued from last page)

getUpdatedBy

```
public Person getUpdatedBy()
```

setUpdatedBy

```
public void setUpdatedBy(Person updatedBy)
```

Parameters:

updatedBy - updatedBy

getUpdated

```
public java.util.Calendar getUpdated()
```

Returns:

setUpdated

```
public void setUpdated(java.util.Calendar updated)
```

Parameters:

updated - updated

getValidFrom

```
public java.util.Calendar getValidFrom()
```

based on created

getValidTo

```
public java.util.Calendar getValidTo()
```

based on updated

eu.etaxonomy.cdm.model.common Class WrongTermTypeException

```

java.lang.Object
  |
  +- java.lang.Throwable
      |
      +- java.lang.Exception
          |
          +- eu.etaxonomy.cdm.model.common.WrongTermTypeException
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class WrongTermTypeException
extends java.lang.Exception
  
```

Constructor Summary

public	WrongTermTypeException()
public	WrongTermTypeException(java.lang.String arg0)
public	WrongTermTypeException(java.lang.Throwable arg0)
public	WrongTermTypeException(java.lang.String arg0, java.lang.Throwable arg1)

Methods inherited from class java.lang.Throwable

fillInStackTrace, getCause, getLocalizedMessage, getMessage, getStackTrace, initCause, printStackTrace, printStackTrace, printStackTrace, setStackTrace, toString

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

WrongTermTypeException

```
public WrongTermTypeException()
```

WrongTermTypeException

```
public WrongTermTypeException(java.lang.String arg0)
```

WrongTermTypeException

```
public WrongTermTypeException(java.lang.Throwable arg0)
```

WrongTermTypeException

```
public WrongTermTypeException(java.lang.String arg0,  
                               java.lang.Throwable arg1)
```

Package

eu.etaxonomy.cdm.model.description

Package: "description"

Provides classes:

- to describe specimens, observations or taxa
- to associate other factual informations to specimens, observations or taxa (including distribution)
- to support identification by means of keys

Related Documentation

- [Structured Descriptive Data \(TDWG\)](#)
- [ABCD schema](#)

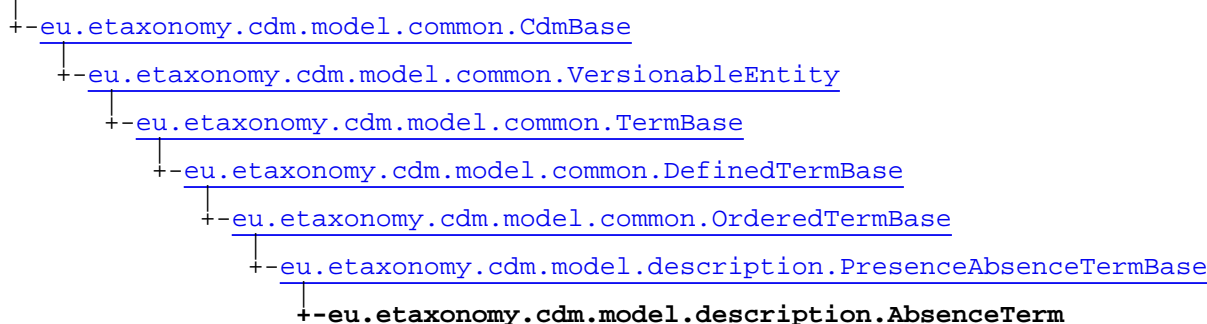
UML Diagrams

Description

Keys

eu.etaxonomy.cdm.model.description Class AbsenceTerm

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#), java.lang.Comparable

public class **AbsenceTerm**
extends [PresenceAbsenceTermBase](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[orderIndex](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	AbsenceTerm ()
public	AbsenceTerm (java.lang.String term, java.lang.String label)

Methods inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[compareTo](#), [decreaseIndex](#), [equals](#), [incrementIndex](#), [isHigher](#), [isLower](#), [setVocabulary](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Methods inherited from interface `java.lang.Comparable`

`compareTo`

Constructors

AbsenceTerm

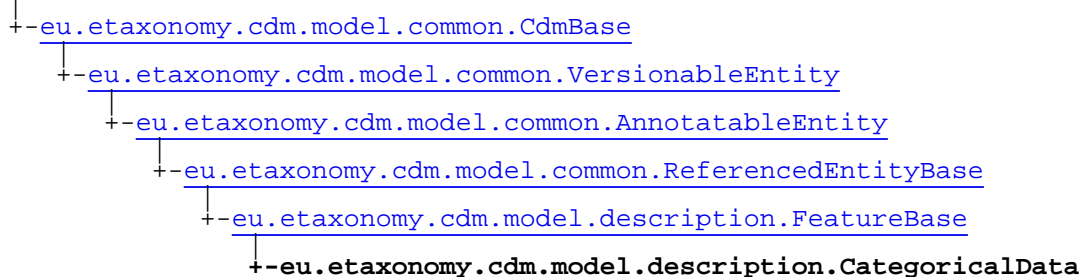
```
public AbsenceTerm()
```

AbsenceTerm

```
public AbsenceTerm(java.lang.String term,  
                   java.lang.String label)
```

eu.etaxonomy.cdm.model.description Class CategoricalData

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IReferencedEntity](#)

public class **CategoricalData**
extends [FeatureBase](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	CategoricalData()
--------	-----------------------------------

Method Summary

void	addState (State state)
------	---

boolean	getOrderRelevant ()
---------	-------------------------------------

java.util.List	getStates ()
----------------	------------------------------

void	removeState (State state)
------	--

void	setOrderRelevant (boolean orderRelevant)
------	--

Methods inherited from class [eu.etaxonomy.cdm.model.description.FeatureBase](#)

[addMedia](#), [addModifier](#), [addModifyingText](#), [addModifyingText](#), [getMedia](#), [getModifiers](#), [getModifyingText](#), [getType](#), [removeMedia](#), [removeModifier](#), [removeModifyingText](#), [setMedia](#), [setModifiers](#), [setModifyingText](#), [setType](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.ReferencedEntityBase](#)

[getCitation](#), [getCitationMicroReference](#), [getOriginalNameString](#), [setCitation](#), [setCitationMicroReference](#), [setOriginalNameString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#),
[removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#),
[getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#),
[firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#),
[firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#),
[removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#),
[setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`,
`wait`

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Constructors

CategoricalData

```
public CategoricalData()
```

Methods

getStates

```
public java.util.List getStates()
```

addState

```
public void addState(State state)
```

removeState

```
public void removeState(State state)
```

getOrderRelevant

```
public boolean getOrderRelevant()
```

setOrderRelevant

```
public void setOrderRelevant(boolean orderRelevant)
```

eu.etaxonomy.cdm.model.description Class CommonTaxonName

```

java.lang.Object
├── eu.etaxonomy.cdm.model.common.CdmBase
│   ├── eu.etaxonomy.cdm.model.common.VersionableEntity
│   │   ├── eu.etaxonomy.cdm.model.common.AnnotatableEntity
│   │   │   ├── eu.etaxonomy.cdm.model.common.ReferencedEntityBase
│   │   │   │   ├── eu.etaxonomy.cdm.model.description.FeatureBase
│   │   │   │   └── eu.etaxonomy.cdm.model.description.CommonTaxonName

```

All Implemented Interfaces:

java.io.Serializable, [IReferencedEntity](#)

```

public class CommonTaxonName
extends FeatureBase

```

only valid for Taxa, not specimen/occurrences. Check DescriptionBase relation.

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	CommonTaxonName()
--------	-----------------------------------

Method Summary

Language	getLanguage()
--------------------------	-------------------------------

java.lang.String	getName()
------------------	---------------------------

void	setLanguage(Language language)
------	--

void	setName(java.lang.String name)
------	--

Methods inherited from class [eu.etaxonomy.cdm.model.description.FeatureBase](#)

[addMedia](#), [addModifier](#), [addModifyingText](#), [addModifyingText](#), [getMedia](#), [getModifiers](#), [getModifyingText](#), [getType](#), [removeMedia](#), [removeModifier](#), [removeModifyingText](#), [setMedia](#), [setModifiers](#), [setModifyingText](#), [setType](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.ReferencedEntityBase](#)

[getCitation](#), [getCitationMicroReference](#), [getOriginalNameString](#), [setCitation](#), [setCitationMicroReference](#), [setOriginalNameString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#),
[removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#),
[getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#),
[firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#),
[firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#),
[removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#),
[setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#),
[wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Constructors

CommonTaxonName

```
public CommonTaxonName()
```

Methods

getLanguage

```
public Language getLanguage()
```

setLanguage

```
public void setLanguage(Language language)
```

getName

```
public java.lang.String getName()
```

(continued from last page)

setName

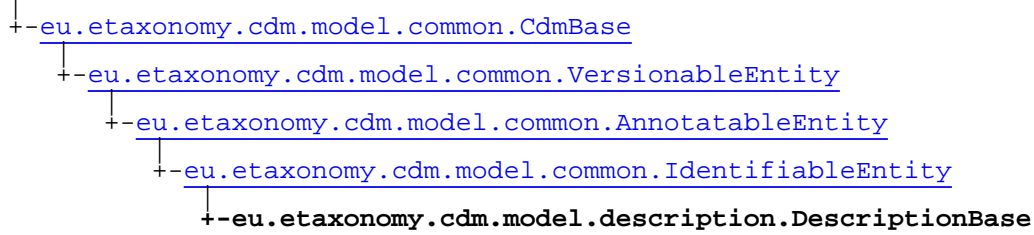
```
public void setName(java.lang.String name)
```

Parameters:

name - name

eu.etaxonomy.cdm.model.description Class DescriptionBase

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#)

Direct Known Subclasses:

[SpecimenDescription](#), [TaxonDescription](#)

public abstract class **DescriptionBase**
extends [IdentifiableEntity](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	DescriptionBase()
--------	-----------------------------------

Method Summary

void	addFeature (FeatureBase feature)
------	---

java.lang.String	generateTitle()
------------------	---------------------------------

java.util.Set	getFeatures()
---------------	-------------------------------

ReferenceBase	getSource()
-------------------------------	-----------------------------

void	removeFeature (FeatureBase feature)
------	--

void	setFeatures (java.util.Set features)
------	--

void	setSource (ReferenceBase source)
------	---

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Constructors

DescriptionBase

```
public DescriptionBase()
```

Methods

generateTitle

```
public java.lang.String generateTitle()
```

getSource

```
public ReferenceBase getSource()
```

(continued from last page)

setSource

```
public void setSource(ReferenceBase source)
```

getFeatures

```
public java.util.Set getFeatures()
```

setFeatures

```
protected void setFeatures(java.util.Set features)
```

addFeature

```
public void addFeature(FeatureBase feature)
```

removeFeature

```
public void removeFeature(FeatureBase feature)
```

eu.etaxonomy.cdm.model.description Class Distribution

```

java.lang.Object
  |
  +- eu.etaxonomy.cdm.model.common.CdmBase
    |
    +- eu.etaxonomy.cdm.model.common.VersionableEntity
      |
      +- eu.etaxonomy.cdm.model.common.AnnotatableEntity
        |
        +- eu.etaxonomy.cdm.model.common.ReferencedEntityBase
          |
          +- eu.etaxonomy.cdm.model.description.FeatureBase
            |
            +- eu.etaxonomy.cdm.model.description.Distribution
  
```

All Implemented Interfaces:

java.io.Serializable, [IReferencedEntity](#)

public class **Distribution**
extends [FeatureBase](#)

fact attribute contains the concrete occurrence term like "Extinct" This allows all terms to enter the database and classify them basically according to class hierarchy of distribution. {validInRegion mandatory} {type is "distribution"}

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	Distribution ()
--------	---------------------------------

Method Summary

NamedArea	getArea ()
---------------------------	----------------------------

PresenceAbsenceTermBase	getStatus ()
---	------------------------------

void	setArea (NamedArea area)
------	---

void	setStatus (PresenceAbsenceTermBase status)
------	---

Methods inherited from class [eu.etaxonomy.cdm.model.description.FeatureBase](#)

[addMedia](#), [addModifier](#), [addModifyingText](#), [addModifyingText](#), [getMedia](#), [getModifiers](#), [getModifyingText](#), [getType](#), [removeMedia](#), [removeModifier](#), [removeModifyingText](#), [setMedia](#), [setModifiers](#), [setModifyingText](#), [setType](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.ReferencedEntityBase](#)

[getCitation](#), [getCitationMicroReference](#), [getOriginalNameString](#), [setCitation](#), [setCitationMicroReference](#), [setOriginalNameString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#),
[removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#),
[getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#),
[firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#),
[firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#),
[removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#),
[setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`,
`wait`

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Constructors

Distribution

```
public Distribution()
```

Methods

getArea

```
public NamedArea getArea()
```

setArea

```
public void setArea(NamedArea area)
```

getStatus

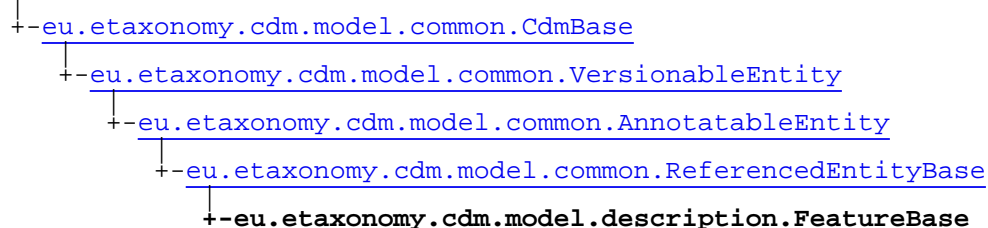
```
public PresenceAbsenceTermBase getStatus()
```

setStatus

```
public void setStatus(PresenceAbsenceTermBase status)
```

eu.etaxonomy.cdm.model.description Class FeatureBase

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IReferencedEntity](#)

Direct Known Subclasses:

[CategoricalData](#), [CommonTaxonName](#), [Distribution](#), [IndividualsAssociation](#), [QuantitativeData](#), [TaxonInteraction](#), [TextData](#)

public abstract class **FeatureBase**
extends [ReferencedEntityBase](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	FeatureBase()
--------	-------------------------------

Method Summary

void	addMedia (Media media)
------	---

void	addModifier (Modifier modifier)
------	--

void	addModifyingText (LanguageString description)
------	--

void	addModifyingText (java.lang.String text, Language lang)
------	---

java.util.Set	getMedia ()
---------------	-----------------------------

java.util.Set	getModifiers ()
---------------	---------------------------------

MultilanguageSet	getModifyingText ()
----------------------------------	-------------------------------------

FeatureType	getType ()
-----------------------------	----------------------------

void	removeMedia (Media media)
void	removeModifier (Modifier modifier)
void	removeModifyingText (Language lang)
void	setMedia (java.util.Set media)
void	setModifiers (java.util.Set modifiers)
void	setModifyingText (MultilanguageSet modifyingText)
void	setType (FeatureType type)

Methods inherited from class [eu.etaxonomy.cdm.model.common.ReferencedEntityBase](#)

[getCitation](#), [getCitationMicroReference](#), [getOriginalNameString](#), [setCitation](#), [setCitationMicroReference](#), [setOriginalNameString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Constructors

FeatureBase

```
public FeatureBase()
```


(continued from last page)

Methods

getMedia

```
public java.util.Set getMedia()
```

setMedia

```
protected void setMedia(java.util.Set media)
```

addMedia

```
public void addMedia(Media media)
```

removeMedia

```
public void removeMedia(Media media)
```

getType

```
public FeatureType getType()
```

setType

```
public void setType(FeatureType type)
```

getModifiers

```
public java.util.Set getModifiers()
```

setModifiers

```
protected void setModifiers(java.util.Set modifiers)
```

addModifier

```
public void addModifier(Modifier modifier)
```

removeModifier

```
public void removeModifier(Modifier modifier)
```

getModifyingText

```
public MultilanguageSet getModifyingText()
```

setModifyingText

```
protected void setModifyingText(MultilanguageSet modifyingText)
```

addModifyingText

```
public void addModifyingText(LanguageString description)
```

addModifyingText

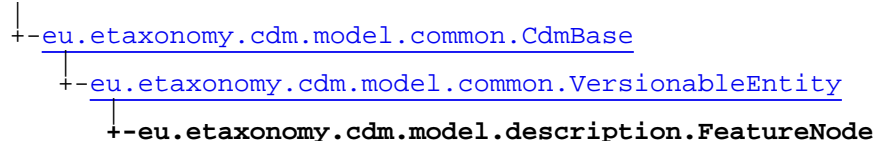
```
public void addModifyingText(java.lang.String text,  
    Language lang)
```

removeModifyingText

```
public void removeModifyingText(Language lang)
```

eu.etaxonomy.cdm.model.description Class FeatureNode

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

public class **FeatureNode**

extends [VersionableEntity](#)

Constructor Summary

public	FeatureNode()
--------	-------------------------------

Method Summary

java.util.List	getChildren()
FeatureNode	getParent()
FeatureType	getType()
void	setChildren (java.util.List children)
void	setParent (FeatureNode parent)
void	setType (FeatureType type)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class java.lang.Object

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Constructors

FeatureNode

```
public FeatureNode()
```

Methods

getType

```
public FeatureType getType()
```

setType

```
public void setType(FeatureType type)
```

getParent

```
public FeatureNode getParent()
```

setParent

```
public void setParent(FeatureNode parent)
```

getChildren

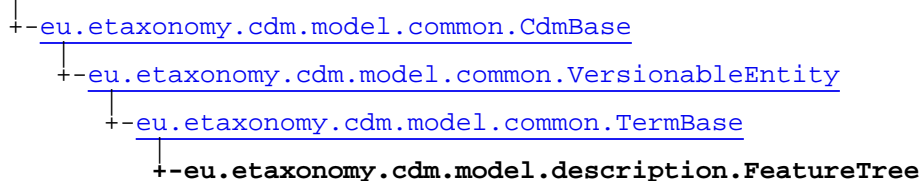
```
public java.util.List getChildren()
```

setChildren

```
public void setChildren(java.util.List children)
```

eu.etaxonomy.cdm.model.description Class FeatureTree

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

public class **FeatureTree**
extends [TermBase](#)

Feature trees arrange concepts and features/characters. They may also be used to define flat char. subsets for filtering purposes. A feature tree is build out of feature nodes, which can be hierarchically organised

Constructor Summary

public	FeatureTree()
--------	-------------------------------

Method Summary

java.util.Set	getNodes()
FeatureNode	getRoot()
void	setNodes(java.util.Set nodes)
void	setRoot(FeatureNode root)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Constructors

FeatureTree

```
public FeatureTree()
```

Methods

getNodes

```
public java.util.Set getNodes()
```

setNodes

```
public void setNodes(java.util.Set nodes)
```

getRoot

```
public FeatureNode getRoot()
```

setRoot

```
public void setRoot(FeatureNode root)
```

eu.etaxonomy.cdm.model.description Class FeatureType

```

java.lang.Object
├── eu.etaxonomy.cdm.model.common.CdmBase
│   ├── eu.etaxonomy.cdm.model.common.VersionableEntity
│   │   ├── eu.etaxonomy.cdm.model.common.TermBase
│   │   │   ├── eu.etaxonomy.cdm.model.common.DefinedTermBase
│   │   │   └── eu.etaxonomy.cdm.model.description.FeatureType

```

All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#)

public class **FeatureType**
extends [DefinedTermBase](#)

NEEDS TO BE COMPLEMENTED SPM / TDWG <http://rs.tdwg.org/ontology/voc/SpeciesProfileModel>

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	FeatureType (java.lang.String term, java.lang.String label)
--------	---

Method Summary

void	addRecommendedModifierEnumeration (TermVocabulary recommendedModifierEnumeration)
------	--

void	addRecommendedStatisticalMeasure (StatisticalMeasure recommendedStatisticalMeasure)
------	--

void	addSupportedCategoricalEnumeration (TermVocabulary supportedCategoricalEnumeration)
------	--

static FeatureType	COMMON_NAME ()
------------------------------------	--------------------------------

static FeatureType	DISTRIBUTION ()
------------------------------------	---------------------------------

java.util.Set	getRecommendedModifierEnumeration ()
---------------	--

java.util.Set	getRecommendedStatisticalMeasures ()
---------------	--

java.util.Set	getSupportedCategoricalEnumerations ()
---------------	--

static FeatureType	HYBRID_PARENT() special kind of OrganismInteraction
boolean	isSupportsCommonTaxonName()
boolean	isSupportsDistribution()
boolean	isSupportsIndividualAssociation()
boolean	isSupportsQuantitativeData()
boolean	isSupportsTaxonInteraction()
boolean	isSupportsTextData()
void	removeRecommendedModifierEnumeration(TermVocabulary recommendedModifierEnumeration)
void	removeRecommendedStatisticalMeasure(StatisticalMeasure recommendedStatisticalMeasure)
void	removeSupportedCategoricalEnumeration(TermVocabulary supportedCategoricalEnumeration)
void	setRecommendedModifierEnumeration(java.util.Set recommendedModifierEnumeration)
void	setRecommendedStatisticalMeasures(java.util.Set recommendedStatisticalMeasures)
void	setSupportedCategoricalEnumerations(java.util.Set supportedCategoricalEnumerations)
void	setSupportsCommonTaxonName(boolean supportsCommonTaxonName)
void	setSupportsDistribution(boolean supportsDistribution)
void	setSupportsIndividualAssociation(boolean supportsIndividualAssociation)
void	setSupportsQuantitativeData(boolean supportsQuantitativeData)
void	setSupportsTaxonInteraction(boolean supportsTaxonInteraction)
void	setSupportsTextData(boolean supportsTextData)

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Constructors

FeatureType

```
public FeatureType(java.lang.String term,
                  java.lang.String label)
```

Methods

isSupportsQuantitativeData

```
public boolean isSupportsQuantitativeData()
```

setSupportsQuantitativeData

```
public void setSupportsQuantitativeData(boolean supportsQuantitativeData)
```

isSupportsTextData

```
public boolean isSupportsTextData()
```

(continued from last page)

setSupportsTextData

```
public void setSupportsTextData(boolean supportsTextData)
```

isSupportsDistribution

```
public boolean isSupportsDistribution()
```

setSupportsDistribution

```
public void setSupportsDistribution(boolean supportsDistribution)
```

isSupportsIndividualAssociation

```
public boolean isSupportsIndividualAssociation()
```

setSupportsIndividualAssociation

```
public void setSupportsIndividualAssociation(boolean supportsIndividualAssociation)
```

isSupportsTaxonInteraction

```
public boolean isSupportsTaxonInteraction()
```

setSupportsTaxonInteraction

```
public void setSupportsTaxonInteraction(boolean supportsTaxonInteraction)
```

isSupportsCommonTaxonName

```
public boolean isSupportsCommonTaxonName()
```

setSupportsCommonTaxonName

```
public void setSupportsCommonTaxonName(boolean supportsCommonTaxonName)
```

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getRecommendedModifierEnumeration

```
public java.util.Set getRecommendedModifierEnumeration()
```

setRecommendedModifierEnumeration

```
protected void setRecommendedModifierEnumeration(java.util.Set  
recommendedModifierEnumeration)
```

addRecommendedModifierEnumeration

```
public void addRecommendedModifierEnumeration(TermVocabulary  
recommendedModifierEnumeration)
```

removeRecommendedModifierEnumeration

```
public void removeRecommendedModifierEnumeration(TermVocabulary  
recommendedModifierEnumeration)
```

getRecommendedStatisticalMeasures

```
public java.util.Set getRecommendedStatisticalMeasures()
```

setRecommendedStatisticalMeasures

```
protected void setRecommendedStatisticalMeasures(java.util.Set  
recommendedStatisticalMeasures)
```

addRecommendedStatisticalMeasure

```
public void addRecommendedStatisticalMeasure(StatisticalMeasure  
recommendedStatisticalMeasure)
```

removeRecommendedStatisticalMeasure

```
public void removeRecommendedStatisticalMeasure(StatisticalMeasure  
recommendedStatisticalMeasure)
```

getSupportedCategoricalEnumerations

```
public java.util.Set getSupportedCategoricalEnumerations()
```

setSupportedCategoricalEnumerations

```
protected void setSupportedCategoricalEnumerations(java.util.Set  
supportedCategoricalEnumerations)
```

addSupportedCategoricalEnumeration

```
public void addSupportedCategoricalEnumeration(TermVocabulary  
supportedCategoricalEnumeration)
```

removeSupportedCategoricalEnumeration

```
public void removeSupportedCategoricalEnumeration(TermVocabulary  
supportedCategoricalEnumeration)
```

DISTRIBUTION

```
public final static FeatureType DISTRIBUTION()
```

HYBRID_PARENT

```
public final static FeatureType HYBRID_PARENT()
```

special kind of OrganismInteraction

COMMON_NAME

```
public final static FeatureType COMMON_NAME()
```

eu.etaxonomy.cdm.model.description Class IdentificationKey

```

java.lang.Object
  |
  +- eu.etaxonomy.cdm.model.common.CdmBase
      |
      +- eu.etaxonomy.cdm.model.common.VersionableEntity
          |
          +- eu.etaxonomy.cdm.model.common.AnnotatableEntity
              |
              +- eu.etaxonomy.cdm.model.common.Media
                  |
                  +- eu.etaxonomy.cdm.model.description.IdentificationKey
  
```

All Implemented Interfaces:

java.io.Serializable

```

public class IdentificationKey
extends Media
  
```

Dichotomous or multifurcating authored keys (incl. legacy data)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	IdentificationKey()
--------	-------------------------------------

Method Summary

void	addCoveredTaxon(Taxon taxon)
------	--

java.util.Set	getCoveredTaxa()
---------------	----------------------------------

void	removeCoveredTaxon(Taxon taxon)
------	---

void	setCoveredTaxa(java.util.Set coveredTaxa)
------	---

Methods inherited from class [eu.etaxonomy.cdm.model.common.Media](#)

[addDescription](#), [addDescription](#), [addInstance](#), [addRights](#), [getArtist](#), [getDescription](#), [getInstances](#), [getMediaCreated](#), [getRights](#), [getTitle](#), [removeDescription](#), [removeInstance](#), [removeRights](#), [setArtist](#), [setDescription](#), [setInstances](#), [setMediaCreated](#), [setRights](#), [setTitle](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

IdentificationKey

```
public IdentificationKey()
```

Methods

getCoveredTaxa

```
public java.util.Set getCoveredTaxa()
```

setCoveredTaxa

```
protected void setCoveredTaxa(java.util.Set coveredTaxa)
```

addCoveredTaxon

```
public void addCoveredTaxon(Taxon taxon)
```

removeCoveredTaxon

```
public void removeCoveredTaxon(Taxon taxon)
```

eu.etaxonomy.cdm.model.description Class IndividualsAssociation

```

java.lang.Object
├── eu.etaxonomy.cdm.model.common.CdmBase
│   ├── eu.etaxonomy.cdm.model.common.VersionableEntity
│   │   ├── eu.etaxonomy.cdm.model.common.AnnotatableEntity
│   │   │   ├── eu.etaxonomy.cdm.model.common.ReferencedEntityBase
│   │   │   │   ├── eu.etaxonomy.cdm.model.description.FeatureBase
│   │   │   │   └── eu.etaxonomy.cdm.model.description.IndividualsAssociation

```

All Implemented Interfaces:

java.io.Serializable, [IReferencedEntity](#)

public class **IndividualsAssociation**
extends [FeatureBase](#)

{type is "host" or "hybrid_parent"}

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	IndividualsAssociation()
--------	--

Method Summary

void	addDescription (LanguageString description)
------	--

void	addDescription (java.lang.String text, Language lang)
------	---

SpecimenOrObservationBase	getAssociatedSpecimenOrObservation ()
---	---

MultilanguageSet	getDescription ()
----------------------------------	-----------------------------------

void	removeDescription (Language lang)
------	--

void	setAssociatedSpecimenOrObservation (SpecimenOrObservationBase associatedSpecimenOrObservation)
------	---

Methods inherited from class [eu.etaxonomy.cdm.model.description.FeatureBase](#)

[addMedia](#), [addModifier](#), [addModifyingText](#), [addModifyingText](#), [getMedia](#), [getModifiers](#), [getModifyingText](#), [getType](#), [removeMedia](#), [removeModifier](#), [removeModifyingText](#), [setMedia](#), [setModifiers](#), [setModifyingText](#), [setType](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.ReferencedEntityBase](#)

[getCitation](#), [getCitationMicroReference](#), [getOriginalNameString](#), [setCitation](#),
[setCitationMicroReference](#), [setOriginalNameString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#),
[removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#),
[getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#),
[firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#),
[firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#),
[removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#),
[setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`,
`wait`

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Constructors

IndividualsAssociation

```
public IndividualsAssociation()
```

Methods

getAssociatedSpecimenOrObservation

```
public SpecimenOrObservationBase getAssociatedSpecimenOrObservation()
```

setAssociatedSpecimenOrObservation

```
public void setAssociatedSpecimenOrObservation(SpecimenOrObservationBase  
associatedSpecimenOrObservation)
```


(continued from last page)

getDescription

```
public MultilanguageSet getDescription()
```

addDescription

```
public void addDescription(LanguageString description)
```

addDescription

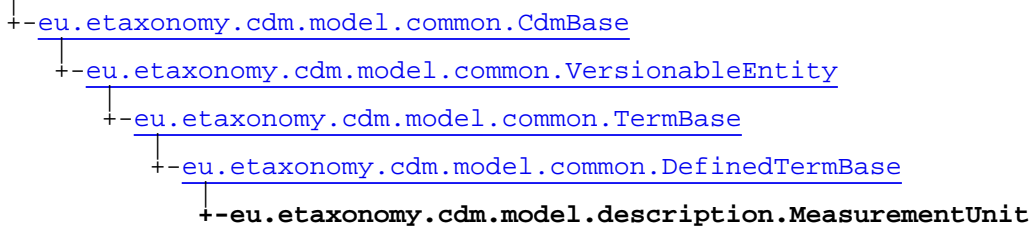
```
public void addDescription(java.lang.String text,  
    Language lang)
```

removeDescription

```
public void removeDescription(Language lang)
```

eu.etaxonomy.cdm.model.description Class MeasurementUnit

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#)

```

public class MeasurementUnit
extends DefinedTermBase
  
```

This class contains the measurement units such as "centimeter" or "degree Celsius"

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	MeasurementUnit()
public	MeasurementUnit (java.lang.String term, java.lang.String label)

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

```
addPropertyChangeListener, addPropertyChangeListener, equals, firePropertyChange,  
firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange,  
firePropertyChange, getCreated, getCreatedBy, getId, getUuid, hasListeners,  
removePropertyChangeListener, removePropertyChangeListener, setCreated, setCreatedBy,  
setId, setUuid, toString
```

Methods inherited from class `java.lang.Object`

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait,  
wait
```

Methods inherited from interface `eu.etaxonomy.cdm.model.common.IDefTerm`

```
getVocabulary, readCsvLine, setVocabulary, writeCsvLine
```

Constructors

MeasurementUnit

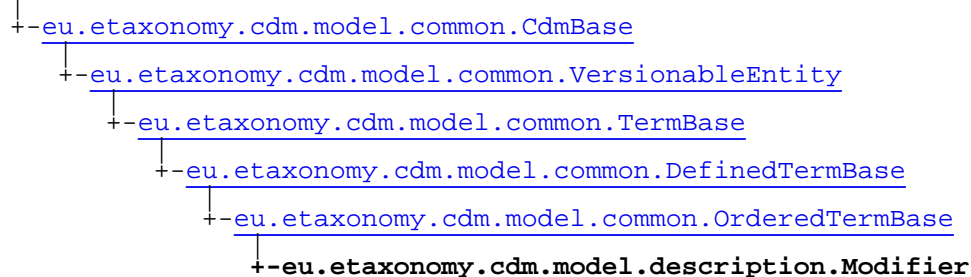
```
public MeasurementUnit()
```

MeasurementUnit

```
public MeasurementUnit(java.lang.String term,  
                        java.lang.String label)
```

eu.etaxonomy.cdm.model.description Class Modifier

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#), java.lang.Comparable

Direct Known Subclasses:

[DeterminationModifier](#), [Scope](#)

```
public class Modifier
extends OrderedTermBase
```

This class contains possible modulations for the InfoItems such as "variance", "maximum", "often", "probably"

Fields inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[orderIndex](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	Modifier ()
public	Modifier (java.lang.String term, java.lang.String label)

Methods inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[compareTo](#), [decreaseIndex](#), [equals](#), [incrementIndex](#), [isHigher](#), [isLower](#), [setVocabulary](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Methods inherited from interface [java.lang.Comparable](#)

[compareTo](#)

Constructors

Modifier

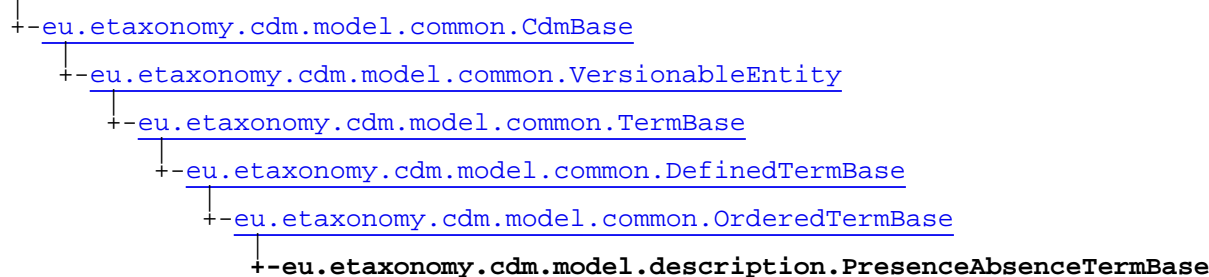
```
public Modifier()
```

Modifier

```
public Modifier(java.lang.String term,
                java.lang.String label)
```

eu.etaxonomy.cdm.model.description Class PresenceAbsenceTermBase

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#), java.lang.Comparable

Direct Known Subclasses:

[AbsenceTerm](#), [PresenceTerm](#)

public abstract class **PresenceAbsenceTermBase**
extends [OrderedTermBase](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[orderIndex](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	PresenceAbsenceTermBase ()
public	PresenceAbsenceTermBase (java.lang.String term, java.lang.String label)

Methods inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[compareTo](#), [decreaseIndex](#), [equals](#), [incrementIndex](#), [isHigher](#), [isLower](#), [setVocabulary](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Methods inherited from interface [java.lang.Comparable](#)

[compareTo](#)

Constructors

PresenceAbsenceTermBase

```
public PresenceAbsenceTermBase()
```

PresenceAbsenceTermBase

```
public PresenceAbsenceTermBase(java.lang.String term,
                               java.lang.String label)
```

eu.etaxonomy.cdm.model.description Class PresenceTerm

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#), java.lang.Comparable

public class **PresenceTerm**
extends [PresenceAbsenceTermBase](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[orderIndex](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	PresenceTerm ()
public	PresenceTerm (java.lang.String term, java.lang.String label)

Methods inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[compareTo](#), [decreaseIndex](#), [equals](#), [incrementIndex](#), [isHigher](#), [isLower](#), [setVocabulary](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Methods inherited from interface `java.lang.Comparable`

`compareTo`

Constructors

PresenceTerm

```
public PresenceTerm()
```

PresenceTerm

```
public PresenceTerm(java.lang.String term,  
                    java.lang.String label)
```

eu.etaxonomy.cdm.model.description Class QuantitativeData

```

java.lang.Object
├── eu.etaxonomy.cdm.model.common.CdmBase
│   ├── eu.etaxonomy.cdm.model.common.VersionableEntity
│   │   ├── eu.etaxonomy.cdm.model.common.AnnotatableEntity
│   │   │   ├── eu.etaxonomy.cdm.model.common.ReferencedEntityBase
│   │   │   │   ├── eu.etaxonomy.cdm.model.description.FeatureBase
│   │   │   │   └── eu.etaxonomy.cdm.model.description.QuantitativeData

```

All Implemented Interfaces:

java.io.Serializable, [IReferencedEntity](#)

```

public class QuantitativeData
extends FeatureBase

```

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	QuantitativeData()
--------	------------------------------------

Method Summary

void	addStatisticalValue (StatisticalMeasurementValue statisticalValue)
------	---

float	getMax ()
-------	---------------------------

float	getMin ()
-------	---------------------------

java.util.Set	getStatisticalValues ()
---------------	---

float	getTypicalLowerBoundary ()
-------	--

float	getTypicalUpperBoundary ()
-------	--

MeasurementUnit	getUnit ()
---------------------------------	----------------------------

void	removeStatisticalValue (StatisticalMeasurementValue statisticalValue)
------	--

void	setStatisticalValues (java.util.Set statisticalValues)
------	--

void	setUnit (MeasurementUnit unit)
------	---

Methods inherited from class [eu.etaxonomy.cdm.model.description.FeatureBase](#)

[addMedia](#), [addModifier](#), [addModifyingText](#), [addModifyingText](#), [getMedia](#), [getModifiers](#), [getModifyingText](#), [getType](#), [removeMedia](#), [removeModifier](#), [removeModifyingText](#), [setMedia](#), [setModifiers](#), [setModifyingText](#), [setType](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.ReferencedEntityBase](#)

[getCitation](#), [getCitationMicroReference](#), [getOriginalNameString](#), [setCitation](#), [setCitationMicroReference](#), [setOriginalNameString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Constructors

QuantitativeData

```
public QuantitativeData()
```

Methods

getStatisticalValues

```
public java.util.Set getStatisticalValues()
```

setStatisticalValues

```
protected void setStatisticalValues(java.util.Set statisticalValues)
```

addStatisticalValue

```
public void addStatisticalValue(StatisticalMeasurementValue statisticalValue)
```

removeStatisticalValue

```
public void removeStatisticalValue(StatisticalMeasurementValue statisticalValue)
```

getUnit

```
public MeasurementUnit getUnit()
```

setUnit

```
public void setUnit(MeasurementUnit unit)
```

getMin

```
public float getMin()
```

getMax

```
public float getMax()
```

getTypicalLowerBoundary

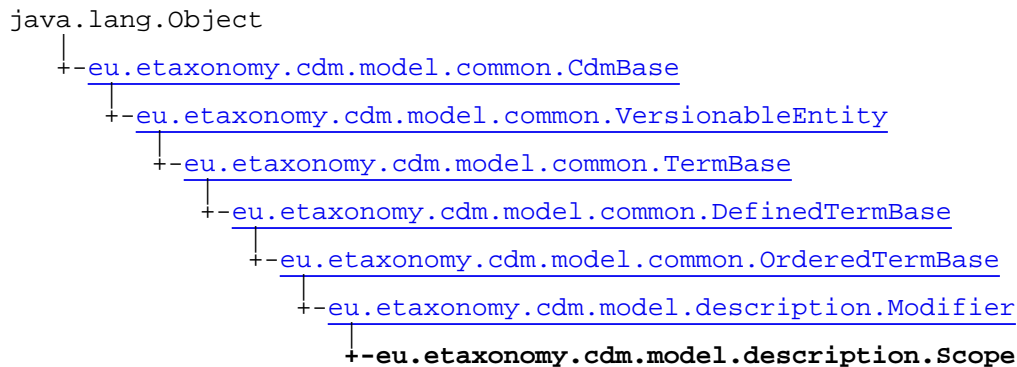
```
public float getTypicalLowerBoundary()
```

getTypicalUpperBoundary

```
public float getTypicalUpperBoundary()
```

eu.etaxonomy.cdm.model.description

Class Scope



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#), java.lang.Comparable

Direct Known Subclasses:

[Sex](#), [Stage](#)

public class **Scope**
 extends [Modifier](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[orderIndex](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.definedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	Scope()
public	Scope (java.lang.String term, java.lang.String label)

Methods inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[compareTo](#), [decreaseIndex](#), [equals](#), [incrementIndex](#), [isHigher](#), [isLower](#), [setVocabulary](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.definedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Methods inherited from interface [java.lang.Comparable](#)

[compareTo](#)

Constructors

Scope

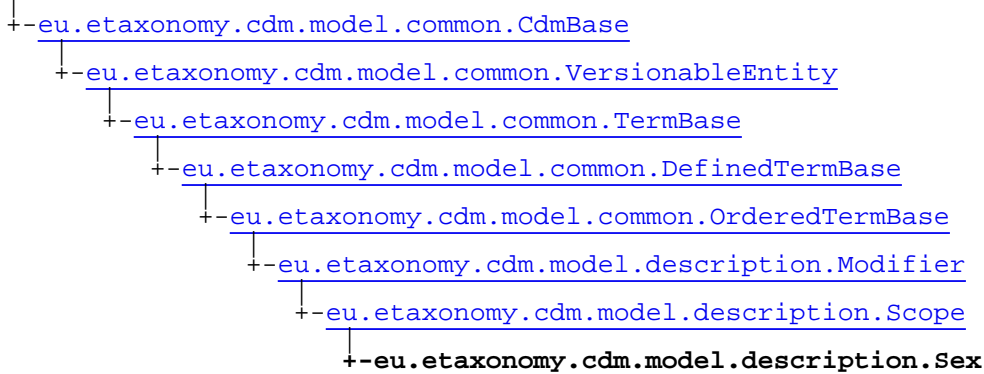
```
public Scope()
```

Scope

```
public Scope(java.lang.String term,  
             java.lang.String label)
```

eu.etaxonomy.cdm.model.description Class Sex

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#), java.lang.Comparable

public class **Sex**
extends [Scope](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[orderIndex](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	Sex()
public	Sex(java.lang.String term, java.lang.String label)

Methods inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[compareTo](#), [decreaseIndex](#), [equals](#), [incrementIndex](#), [isHigher](#), [isLower](#), [setVocabulary](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Methods inherited from interface [java.lang.Comparable](#)

[compareTo](#)

Constructors

Sex

```
public Sex()
```

Sex

```
public Sex(java.lang.String term,  
           java.lang.String label)
```


eu.etaxonomy.cdm.model.description Class SpecimenDescription

```

java.lang.Object
  |
  +- eu.etaxonomy.cdm.model.common.CdmBase
      |
      +- eu.etaxonomy.cdm.model.common.VersionableEntity
          |
          +- eu.etaxonomy.cdm.model.common.AnnotatableEntity
              |
              +- eu.etaxonomy.cdm.model.common.IdentifiableEntity
                  |
                  +- eu.etaxonomy.cdm.model.description.DescriptionBase
                      |
                      +- eu.etaxonomy.cdm.model.description.SpecimenDescription
  
```

All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#)

public class **SpecimenDescription**
extends [DescriptionBase](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	SpecimenDescription()
--------	---------------------------------------

Method Summary

void	addDescribedSpecimenOrObservations (SpecimenOrObservationBase describedSpecimenOrObservation)
------	--

java.util.Set	getDescribedSpecimenOrObservations ()
---------------	---

void	removeDescribedSpecimenOrObservations (SpecimenOrObservationBase describedSpecimenOrObservation)
------	---

void	setDescribedSpecimenOrObservations (java.util.Set describedSpecimenOrObservations)
------	--

Methods inherited from class [eu.etaxonomy.cdm.model.description.DescriptionBase](#)

[addFeature](#), [generateTitle](#), [getFeatures](#), [getSource](#), [removeFeature](#), [setFeatures](#), [setSource](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Constructors

SpecimenDescription

```
public SpecimenDescription()
```

Methods

getDescribedSpecimenOrObservations

```
public java.util.Set getDescribedSpecimenOrObservations()
```

setDescribedSpecimenOrObservations

```
public void setDescribedSpecimenOrObservations(java.util.Set
describedSpecimenOrObservations)
```

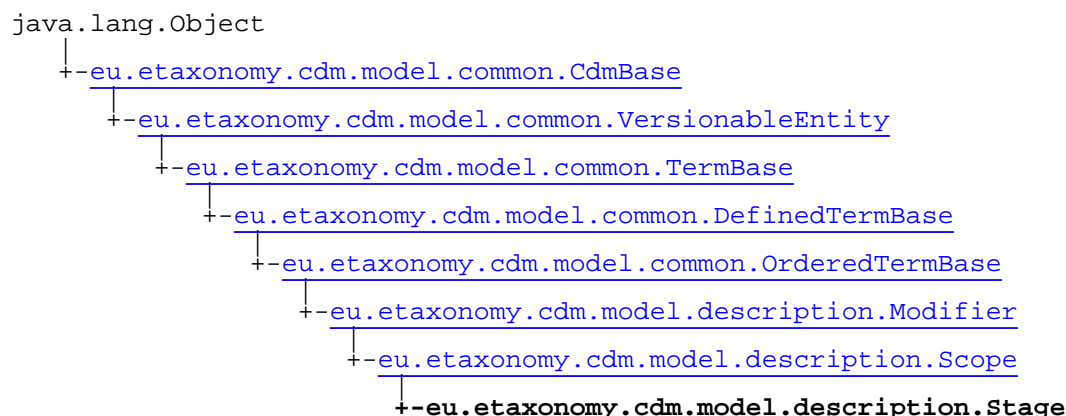
addDescribedSpecimenOrObservations

```
public void addDescribedSpecimenOrObservations(SpecimenOrObservationBase  
describedSpecimenOrObservation)
```

removeDescribedSpecimenOrObservations

```
public void removeDescribedSpecimenOrObservations(SpecimenOrObservationBase  
describedSpecimenOrObservation)
```

eu.etaxonomy.cdm.model.description Class Stage



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#), java.lang.Comparable

public class **Stage**
extends [Scope](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[orderIndex](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.definedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	Stage()
public	Stage (java.lang.String term, java.lang.String label)

Methods inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[compareTo](#), [decreaseIndex](#), [equals](#), [incrementIndex](#), [isHigher](#), [isLower](#), [setVocabulary](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.definedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Methods inherited from interface [java.lang.Comparable](#)

[compareTo](#)

Constructors

Stage

```
public Stage()
```

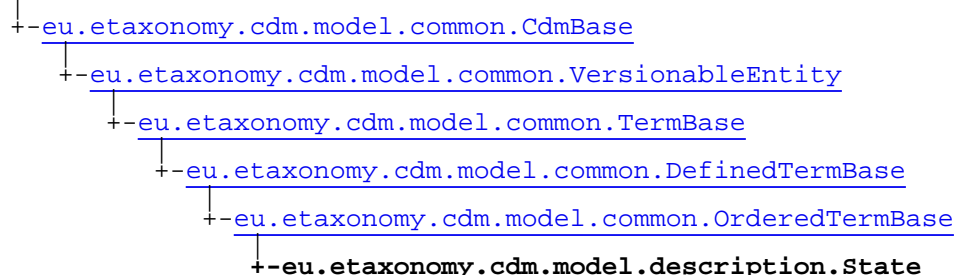
Stage

```
public Stage(java.lang.String term,  
             java.lang.String label)
```

eu.etaxonomy.cdm.model.description

Class State

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#), java.lang.Comparable

public class **State**
 extends [OrderedTermBase](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[orderIndex](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	State ()
public	State (java.lang.String term, java.lang.String label)

Methods inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[compareTo](#), [decreaseIndex](#), [equals](#), [incrementIndex](#), [isHigher](#), [isLower](#), [setVocabulary](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#),
[getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#),
[firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#),
[firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#),
[removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#),
[setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`,
`wait`

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Methods inherited from interface `java.lang.Comparable`

`compareTo`

Constructors

State

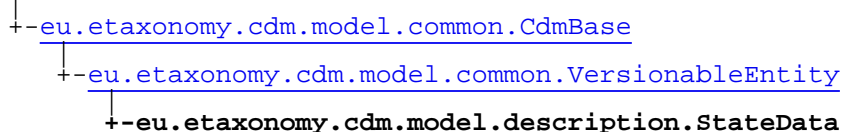
```
public State()
```

State

```
public State(java.lang.String term,  
             java.lang.String label)
```

eu.etaxonomy.cdm.model.description Class StateData

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

public class **StateData**
extends [VersionableEntity](#)

Constructor Summary

public	StateData()
--------	-----------------------------

Method Summary

void	addModifier (Modifier modifier)
void	addModifyingText (LanguageString text)
void	addModifyingText (java.lang.String text, Language lang)
java.util.Set	getModifiers ()
MultilanguageSet	getModifyingText ()
State	getState ()
void	removeModifier (Modifier modifier)
void	removeModifyingText (Language lang)
void	setState (State state)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#),
[getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Constructors

StateData

```
public StateData()
```

Methods

getState

```
public State getState()
```

setState

```
public void setState(State state)
```

getModifiers

```
public java.util.Set getModifiers()
```

addModifier

```
public void addModifier(Modifier modifier)
```

removeModifier

```
public void removeModifier(Modifier modifier)
```

getModifyingText

```
public MultilanguageSet getModifyingText()
```

(continued from last page)

addModifyingText

```
public void addModifyingText(java.lang.String text,  
    Language lang)
```

addModifyingText

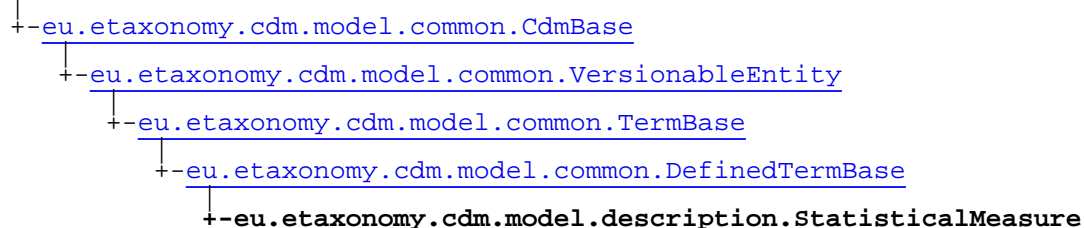
```
public void addModifyingText(LanguageString text)
```

removeModifyingText

```
public void removeModifyingText(Language lang)
```

eu.etaxonomy.cdm.model.description Class StatisticalMeasure

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#)

public class **StatisticalMeasure**
extends [DefinedTermBase](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	StatisticalMeasure ()
public	StatisticalMeasure (java.lang.String term, java.lang.String label)

Method Summary

static StatisticalMeasure	AVERAGE ()
static StatisticalMeasure	MAX ()
static StatisticalMeasure	MIN ()
static StatisticalMeasure	SAMPLE_SIZE ()
static StatisticalMeasure	TYPICAL_LOWER_BOUNDARY ()
static StatisticalMeasure	TYPICAL_UPPER_BOUNDARY ()
static StatisticalMeasure	VARIANCE ()

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Constructors

StatisticalMeasure

```
public StatisticalMeasure()
```

StatisticalMeasure

```
public StatisticalMeasure(java.lang.String term,  
                           java.lang.String label)
```

Methods

MIN

```
public final static StatisticalMeasure MIN()
```

(continued from last page)

MAX

```
public final static StatisticalMeasure MAX()
```

AVERAGE

```
public final static StatisticalMeasure AVERAGE()
```

SAMPLE_SIZE

```
public final static StatisticalMeasure SAMPLE_SIZE()
```

VARIANCE

```
public final static StatisticalMeasure VARIANCE()
```

TYPICAL_LOWER_BOUNDARY

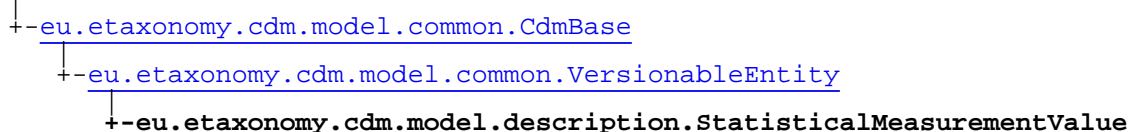
```
public final static StatisticalMeasure TYPICAL_LOWER_BOUNDARY()
```

TYPICAL_UPPER_BOUNDARY

```
public final static StatisticalMeasure TYPICAL_UPPER_BOUNDARY()
```

eu.etaxonomy.cdm.model.description Class StatisticalMeasurementValue

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

public class **StatisticalMeasurementValue**

extends [VersionableEntity](#)

Constructor Summary

public	StatisticalMeasurementValue()
--------	---

Method Summary

void	addModifier (Modifier modifier)
java.util.Set	getModifiers ()
StatisticalMeasure	getType ()
float	getValue ()
void	removeModifier (Modifier modifier)
void	setModifiers (java.util.Set modifiers)
void	setType (StatisticalMeasure type)
void	setValue (float value)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Constructors

StatisticalMeasurementValue

```
public StatisticalMeasurementValue()
```

Methods

getType

```
public StatisticalMeasure getType()
```

setType

```
public void setType(StatisticalMeasure type)
```

getValue

```
public float getValue()
```

setValue

```
public void setValue(float value)
```

getModifiers

```
public java.util.Set getModifiers()
```

setModifiers

```
protected void setModifiers(java.util.Set modifiers)
```

addModifier

```
public void addModifier(Modifier modifier)
```

(continued from last page)

removeModifier

```
public void removeModifier(Modifier modifier)
```


eu.etaxonomy.cdm.model.description Class TaxonDescription

```

java.lang.Object
  |
  +- eu.etaxonomy.cdm.model.common.CdmBase
      |
      +- eu.etaxonomy.cdm.model.common.VersionableEntity
          |
          +- eu.etaxonomy.cdm.model.common.AnnotatableEntity
              |
              +- eu.etaxonomy.cdm.model.common.IdentifiableEntity
                  |
                  +- eu.etaxonomy.cdm.model.description.DescriptionBase
                      |
                      +- eu.etaxonomy.cdm.model.description.TaxonDescription
  
```

All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#)

```

public class TaxonDescription
extends DescriptionBase
  
```

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	TaxonDescription()
--------	------------------------------------

Method Summary

void	addGeoScope (NamedArea geoScope)
------	---

void	addScope (Scope scope)
------	---

java.util.Set	getGeoScopes ()
---------------	---------------------------------

java.util.Set	getScopes ()
---------------	------------------------------

Taxon	getTaxon ()
-----------------------	-----------------------------

void	removeGeoScope (NamedArea geoScope)
------	--

void	removeScope (Scope scope)
------	--

void	setGeoScopes (java.util.Set geoScopes)
------	--

void	setScopes (java.util.Set scopes)
------	--

void	setTaxon(Taxon taxon)
------	---------------------------------------

Methods inherited from class [eu.etaxonomy.cdm.model.description.DescriptionBase](#)

[addFeature](#), [generateTitle](#), [getFeatures](#), [getSource](#), [removeFeature](#), [setFeatures](#), [setSource](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Constructors

TaxonDescription

```
public TaxonDescription()
```

Methods

getGeoScopes

```
public java.util.Set getGeoScopes()
```

(continued from last page)

setGeoScopes

```
protected void setGeoScopes(java.util.Set geoScopes)
```

addGeoScope

```
public void addGeoScope(NamedArea geoScope)
```

removeGeoScope

```
public void removeGeoScope(NamedArea geoScope)
```

getScopes

```
public java.util.Set getScopes()
```

setScopes

```
protected void setScopes(java.util.Set scopes)
```

addScope

```
public void addScope(Scope scope)
```

removeScope

```
public void removeScope(Scope scope)
```

getTaxon

```
public Taxon getTaxon()
```

setTaxon

```
public void setTaxon(Taxon taxon)
```

eu.etaxonomy.cdm.model.description

Class TaxonInteraction

```

java.lang.Object
  |
  +- eu.etaxonomy.cdm.model.common.CdmBase
      |
      +- eu.etaxonomy.cdm.model.common.VersionableEntity
          |
          +- eu.etaxonomy.cdm.model.common.AnnotatableEntity
              |
              +- eu.etaxonomy.cdm.model.common.ReferencedEntityBase
                  |
                  +- eu.etaxonomy.cdm.model.description.FeatureBase
                      |
                      +- eu.etaxonomy.cdm.model.description.TaxonInteraction
  
```

All Implemented Interfaces:

java.io.Serializable, [IReferencedEntity](#)

```

public class TaxonInteraction
extends FeatureBase
  
```

FIXME

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	TaxonInteraction()
--------	------------------------------------

Method Summary

void	addDescription (LanguageString description)
------	--

void	addDescription (java.lang.String text, Language lang)
------	---

MultilanguageSet	getDescription ()
----------------------------------	-----------------------------------

Taxon	getTaxon2 ()
-----------------------	------------------------------

void	removeDescription (Language lang)
------	--

void	setTaxon2 (Taxon taxon2)
------	---

Methods inherited from class [eu.etaxonomy.cdm.model.description.FeatureBase](#)

[addMedia](#), [addModifier](#), [addModifyingText](#), [addModifyingText](#), [getMedia](#), [getModifiers](#), [getModifyingText](#), [getType](#), [removeMedia](#), [removeModifier](#), [removeModifyingText](#), [setMedia](#), [setModifiers](#), [setModifyingText](#), [setType](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.ReferencedEntityBase](#)

[getCitation](#), [getCitationMicroReference](#), [getOriginalNameString](#), [setCitation](#), [setCitationMicroReference](#), [setOriginalNameString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Constructors

TaxonInteraction

```
public TaxonInteraction()
```

Methods

getTaxon2

```
public Taxon getTaxon2()
```

setTaxon2

```
public void setTaxon2(Taxon taxon2)
```

(continued from last page)

getDescription

```
public MultilanguageSet getDescription()
```

addDescription

```
public void addDescription(LanguageString description)
```

addDescription

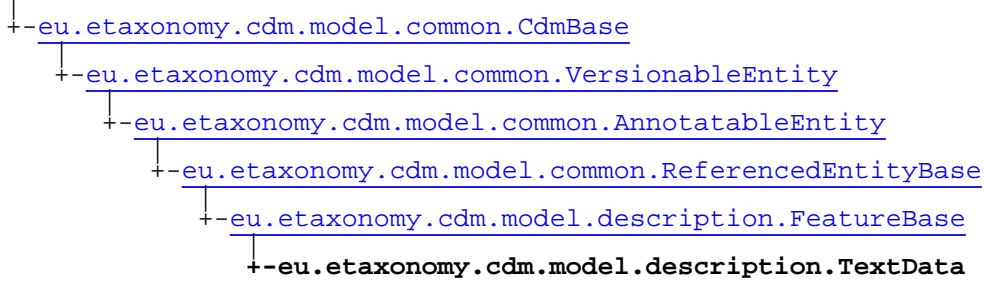
```
public void addDescription(java.lang.String text,  
    Language lang)
```

removeDescription

```
public void removeDescription(Language lang)
```

eu.etaxonomy.cdm.model.description Class TextData

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IReferencedEntity](#)

```

public class TextData
extends FeatureBase
  
```

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	TextData()
--------	----------------------------

Method Summary

void	addText(LanguageString text)
------	--

void	addText(java.lang.String text, Language lang)
------	---

TextFormat	getFormat()
----------------------------	-----------------------------

MultilanguageSet	getTexts()
----------------------------------	----------------------------

void	removeText(Language lang)
------	---

void	setFormat(TextFormat format)
------	--

Methods inherited from class [eu.etaxonomy.cdm.model.description.FeatureBase](#)

[addMedia](#), [addModifier](#), [addModifyingText](#), [addModifyingText](#), [getMedia](#), [getModifiers](#), [getModifyingText](#), [getType](#), [removeMedia](#), [removeModifier](#), [removeModifyingText](#), [setMedia](#), [setModifiers](#), [setModifyingText](#), [setType](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.ReferencedEntityBase](#)

[getCitation](#), [getCitationMicroReference](#), [getOriginalNameString](#), [setCitation](#), [setCitationMicroReference](#), [setOriginalNameString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Constructors

TextData

```
public TextData()
```

Methods

getTexts

```
public MultilanguageSet getTexts()
```

addText

```
public void addText(java.lang.String text,
    Language lang)
```


(continued from last page)

addText

```
public void addText(LanguageString text)
```

removeText

```
public void removeText(Language lang)
```

getFormat

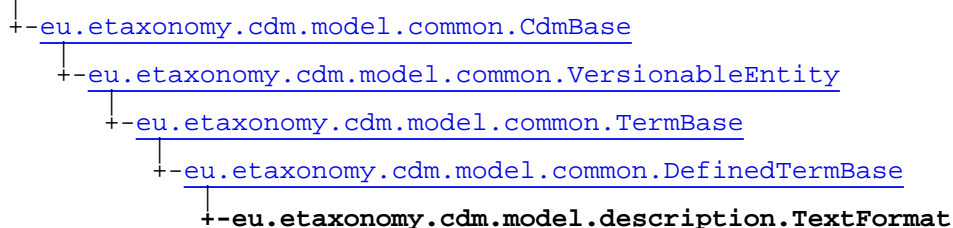
```
public TextFormat getFormat()
```

setFormat

```
public void setFormat(TextFormat format)
```

eu.etaxonomy.cdm.model.description Class TextFormat

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#)

public class **TextFormat**
extends [DefinedTermBase](#)

kind of format used for structuring text. E.g. xml schema namespace, rdf, or any other format

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	TextFormat()
public	TextFormat (java.lang.String term, java.lang.String label)

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

```
addPropertyChangeListener, addPropertyChangeListener, equals, firePropertyChange,  
firePropertyChange, firePropertyChange, firePropertyChange, firePropertyChange,  
firePropertyChange, getCreated, getCreatedBy, getId, getUuid, hasListeners,  
removePropertyChangeListener, removePropertyChangeListener, setCreated, setCreatedBy,  
setId, setUuid, toString
```

Methods inherited from class `java.lang.Object`

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait,  
wait
```

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

```
getVocabulary, readCsvLine, setVocabulary, writeCsvLine
```

Constructors

TextFormat

```
public TextFormat()
```

TextFormat

```
public TextFormat(java.lang.String term,  
                 java.lang.String label)
```

Package

eu.etaxonomy.cdm.model.location

Package: "location"

Provides classes for georeferencing gathering or observation events.

Related Documentation

- [TDWG Geographic Region Ontology](#)
- [Open Geospatial Consortium](#)
- [BioGeomancer Project](#)
- [ISO Standards](#)

UML Diagrams

Location

eu.etaxonomy.cdm.model.location Class Continent

```

java.lang.Object
  |
  +- eu.etaxonomy.cdm.model.common.CdmBase
      |
      +- eu.etaxonomy.cdm.model.common.VersionableEntity
          |
          +- eu.etaxonomy.cdm.model.common.TermBase
              |
              +- eu.etaxonomy.cdm.model.common.DefinedTermBase
                  |
                  +- eu.etaxonomy.cdm.model.location.Continent
  
```

All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#)

```

public class Continent
extends DefinedTermBase
  
```

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	Continent ()
public	Continent (java.lang.String term, java.lang.String label)

Method Summary

static Continent	AFRICA ()
static Continent	ANTARCTICA ()
static Continent	ASIA ()
static Continent	EUROPE ()
static Continent	getUUID (java.util.UUID uuid)
static Continent	NORTH_AMERICA ()
static Continent	OCEANIA ()
static Continent	SOUTH_AMERICA ()

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Constructors

Continent

```
public Continent()
```

Continent

```
public Continent(java.lang.String term,  
                 java.lang.String label)
```

Methods

getUUID

```
public final static Continent getUUID(java.util.UUID uuid)
```

(continued from last page)

EUROPE

```
public final static Continent EUROPE()
```

AFRICA

```
public final static Continent AFRICA()
```

ASIA

```
public final static Continent ASIA()
```

NORTH_AMERICA

```
public final static Continent NORTH_AMERICA()
```

ANTARCTICA

```
public final static Continent ANTARCTICA()
```

SOUTH_AMERICA

```
public final static Continent SOUTH_AMERICA()
```

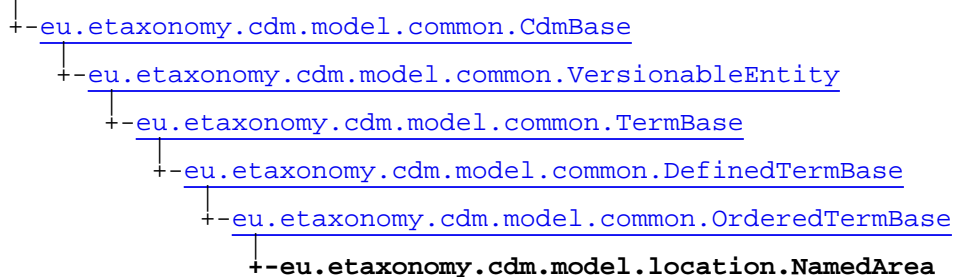
OCEANIA

```
public final static Continent OCEANIA()
```

eu.etaxonomy.cdm.model.location

Class NamedArea

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#), java.lang.Comparable

public class **NamedArea**
 extends [OrderedTermBase](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[orderIndex](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	NamedArea ()
public	NamedArea (java.lang.String term, java.lang.String label)

Method Summary

void	addWaterbodyOrCountry (WaterbodyOrCountry waterbodyOrCountry)
NamedAreaLevel	getLevel ()
Point	getPointApproximation ()
Media	getShape ()
NamedAreaType	getType ()
TimePeriod	getValidPeriod ()
java.util.Set	getWaterbodiesOrCountries ()

void	removeWaterbodyOrCountry (WaterbodyOrCountry waterbodyOrCountry)
void	setLevel (NamedAreaLevel level)
void	setPointApproximation (Point pointApproximation)
void	setShape (Media shape)
void	setType (NamedAreaType type)
void	setValidPeriod (TimePeriod validPeriod)
void	setWaterbodiesOrCountries (java.util.Set waterbodiesOrCountries)

Methods inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[compareTo](#), [decreaseIndex](#), [equals](#), [incrementIndex](#), [isHigher](#), [isLower](#), [setVocabulary](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Methods inherited from interface `java.lang.Comparable``compareTo`

Constructors

NamedArea

```
public NamedArea()
```

NamedArea

```
public NamedArea(java.lang.String term,  
                 java.lang.String label)
```

Methods

getType

```
public NamedAreaType getType()
```

setType

```
public void setType(NamedAreaType type)
```

getLevel

```
public NamedAreaLevel getLevel()
```

setLevel

```
public void setLevel(NamedAreaLevel level)
```

getValidPeriod

```
public TimePeriod getValidPeriod()
```

setValidPeriod

```
public void setValidPeriod(TimePeriod validPeriod)
```

getShape

```
public Media getShape()
```

setShape

```
public void setShape(Media shape)
```

getWaterbodiesOrCountries

```
public java.util.Set getWaterbodiesOrCountries()
```

setWaterbodiesOrCountries

```
protected void setWaterbodiesOrCountries(java.util.Set waterbodiesOrCountries)
```

addWaterbodyOrCountry

```
public void addWaterbodyOrCountry(WaterbodyOrCountry waterbodyOrCountry)
```

removeWaterbodyOrCountry

```
public void removeWaterbodyOrCountry(WaterbodyOrCountry waterbodyOrCountry)
```

getPointApproximation

```
public Point getPointApproximation()
```

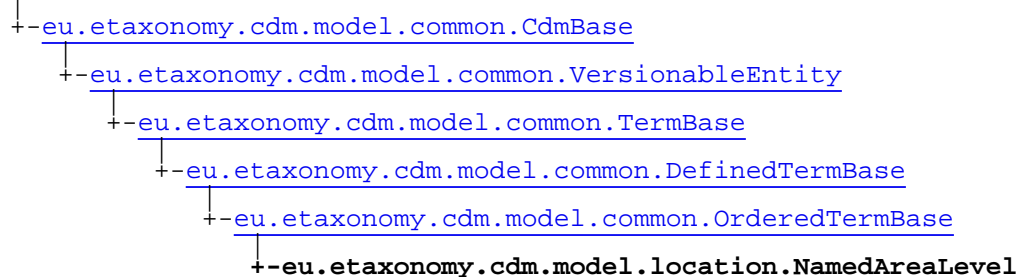
setPointApproximation

```
public void setPointApproximation(Point pointApproximation)
```

eu.etaxonomy.cdm.model.location

Class NamedAreaLevel

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#), java.lang.Comparable

```

public class NamedAreaLevel
extends OrderedTermBase
  
```

Controlled vocabulary to diferentiate levels of areas such as province, state, etc.

Fields inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[orderIndex](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	NamedAreaLevel ()
public	NamedAreaLevel (java.lang.String term, java.lang.String label)

Method Summary

static NamedAreaLevel	NATURE_RESERVE ()
static NamedAreaLevel	PROVINCE ()
static NamedAreaLevel	STATE ()
static NamedAreaLevel	TDWG_LEVEL1 () continents
static NamedAreaLevel	TDWG_LEVEL2 () larger regions
static NamedAreaLevel	TDWG_LEVEL3 () mostly countries

static NamedAreaLevel	TDWG_LEVEL4()
static NamedAreaLevel	TOWN()

Methods inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[compareTo](#), [decreaseIndex](#), [equals](#), [incrementIndex](#), [isHigher](#), [isLower](#), [setVocabulary](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Methods inherited from interface [java.lang.Comparable](#)

[compareTo](#)

Constructors

NamedAreaLevel

```
public NamedAreaLevel()
```

(continued from last page)

NamedAreaLevel

```
public NamedAreaLevel(java.lang.String term,  
                       java.lang.String label)
```

Methods

TDWG_LEVEL1

```
public final static NamedAreaLevel TDWG_LEVEL1()
```

continents

TDWG_LEVEL2

```
public final static NamedAreaLevel TDWG_LEVEL2()
```

larger regions

TDWG_LEVEL3

```
public final static NamedAreaLevel TDWG_LEVEL3()
```

mostly countries

TDWG_LEVEL4

```
public final static NamedAreaLevel TDWG_LEVEL4()
```

NATURE_RESERVE

```
public final static NamedAreaLevel NATURE_RESERVE()
```

STATE

```
public final static NamedAreaLevel STATE()
```

PROVINCE

```
public final static NamedAreaLevel PROVINCE()
```

TOWN

```
public final static NamedAreaLevel TOWN()
```

eu.etaxonomy.cdm.model.location

Class NamedAreaType

```

java.lang.Object
  |
  +- eu.etaxonomy.cdm.model.common.CdmBase
    |
    +- eu.etaxonomy.cdm.model.common.VersionableEntity
      |
      +- eu.etaxonomy.cdm.model.common.TermBase
        |
        +- eu.etaxonomy.cdm.model.common.DefinedTermBase
          |
          +- eu.etaxonomy.cdm.model.location.NamedAreaType
  
```

All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#)

```

public class NamedAreaType
extends DefinedTermBase
  
```

Controlled vocabulary to diferenciate categories of areas

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	NamedAreaType (java.lang.String term, java.lang.String label)
--------	---

Method Summary

static NamedAreaType	ADMINISTRATION_AREA () The boundaries depend on administration (county, state, reserve, etc.)
--------------------------------------	--

static NamedAreaType	NATURAL_AREA () The boundaries are given by natural factors (mountains, valleys, climate, etc.)
--------------------------------------	--

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#),
[getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#),
[firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#),
[firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#),
[removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#),
[setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#),
[wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Constructors

NamedAreaType

```
public NamedAreaType(java.lang.String term,  
                     java.lang.String label)
```

Methods

NATURAL_AREA

```
public final static NamedAreaType NATURAL_AREA()
```

The boundaries are given by natural factors (mountains, valleys, climate, etc.)

ADMINISTRATION_AREA

```
public final static NamedAreaType ADMINISTRATION_AREA()
```

The boundaries depend on administration (county, state, reserve, etc.)

eu.etaxonomy.cdm.model.location Class Point

java.lang.Object

└-eu.etaxonomy.cdm.model.location.Point

public class **Point**
extends java.lang.Object

Constructor Summary

public	Point()
--------	-------------------------

Method Summary

java.lang.Integer	getErrorRadius()
java.lang.Float	getLatitude()
java.lang.Float	getLongitude()
ReferenceSystem	getReferenceSystem()
void	setErrorRadius (java.lang.Integer errorRadius)
void	setLatitude (java.lang.Float latitude)
void	setLongitude (java.lang.Float longitude)
void	setReferenceSystem (ReferenceSystem referenceSystem)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

Point

public **Point**()

Methods

(continued from last page)

getReferenceSystem

```
public ReferenceSystem getReferenceSystem()
```

setReferenceSystem

```
public void setReferenceSystem(ReferenceSystem referenceSystem)
```

Parameters:

referenceSystem - referenceSystem

getLongitude

```
public java.lang.Float getLongitude()
```

setLongitude

```
public void setLongitude(java.lang.Float longitude)
```

Parameters:

longitude - longitude

getLatitude

```
public java.lang.Float getLatitude()
```

setLatitude

```
public void setLatitude(java.lang.Float latitude)
```

Parameters:

latitude - latitude

getErrorRadius

```
public java.lang.Integer getErrorRadius()
```

setErrorRadius

```
public void setErrorRadius(java.lang.Integer errorRadius)
```

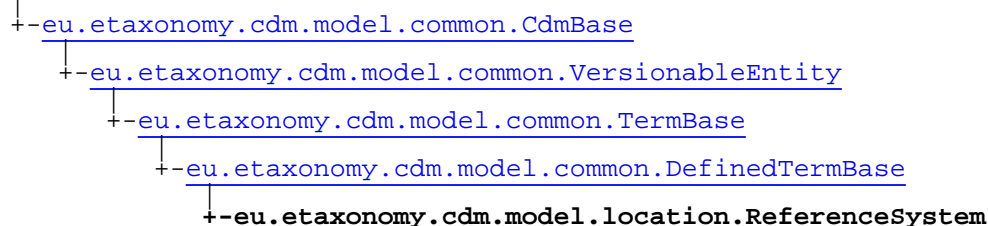
(continued from last page)

Parameters:

errorRadius - errorRadius

eu.etaxonomy.cdm.model.location Class ReferenceSystem

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#)

public class **ReferenceSystem**
extends [DefinedTermBase](#)

Reference systems for coordinates also according to OGC (Open Geographical Consortium) The list should be extensible at runtime through configuration. This needs to be investigated.

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	ReferenceSystem (java.lang.String term, java.lang.String label)
--------	---

Method Summary

static ReferenceSystem	WGS84 ()
---	--------------------------

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Constructors

ReferenceSystem

```
public ReferenceSystem(java.lang.String term,  
                       java.lang.String label)
```

Methods

WGS84

```
public final static ReferenceSystem WGS84()
```

eu.etaxonomy.cdm.model.location Class WaterbodyOrCountry

```

java.lang.Object
  |
  +- eu.etaxonomy.cdm.model.common.CdmBase
      |
      +- eu.etaxonomy.cdm.model.common.VersionableEntity
          |
          +- eu.etaxonomy.cdm.model.common.TermBase
              |
              +- eu.etaxonomy.cdm.model.common.DefinedTermBase
                  |
                  +- eu.etaxonomy.cdm.model.location.WaterbodyOrCountry
  
```

All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#)

```

public class WaterbodyOrCountry
extends DefinedTermBase
  
```

+/- current ISO codes, year given with each entry http://userpage.chemie.fu-berlin.de/diverse/doc/ISO_3166.html
<http://www.davros.org/misc/iso3166.txt>

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	WaterbodyOrCountry ()
public	WaterbodyOrCountry (java.lang.String term, java.lang.String label)

Method Summary

void	addContinents (Continent continent)
java.util.Set	getContinents ()
java.lang.String	getIso2code ()
TimePeriod	getValidPeriod ()
void	readCsvLine (java.util.List csvLine)
void	removeContinents (Continent continent)
void	setContinents (java.util.Set continents)
void	setIso2code (java.lang.String iso2code)

void	setValidPeriod (TimePeriod validPeriod)
void	writeCsvLine (CSVWriter writer)

Methods inherited from class [eu.etaxonomy.cdm.model.common.definedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.termBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.versionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.cdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Constructors

WaterbodyOrCountry

```
public WaterbodyOrCountry()
```

WaterbodyOrCountry

```
public WaterbodyOrCountry(java.lang.String term,
                           java.lang.String label)
```

(continued from last page)

Methods

getContinents

```
public java.util.Set getContinents()
```

setContinents

```
protected void setContinents(java.util.Set continents)
```

addContinents

```
public void addContinents(Continent continent)
```

removeContinents

```
public void removeContinents(Continent continent)
```

getIso2code

```
public java.lang.String getIso2code()
```

setIso2code

```
public void setIso2code(java.lang.String iso2code)
```

Parameters:

iso2code - iso2code

getValidPeriod

```
public TimePeriod getValidPeriod()
```

setValidPeriod

```
public void setValidPeriod(TimePeriod validPeriod)
```

Parameters:

validPeriod - validPeriod

(continued from last page)

readCsvLine

```
public void readCsvLine(java.util.List csvLine)
```

writeCsvLine

```
public void writeCsvLine(CSVWriter writer)
```

Package

eu.etaxonomy.cdm.model.molecular

Package: "molecular"

Provides classes for DNA samples and related sequences.

Related Documentation

- [International Nucleotide Sequence Database Collaboration](#)

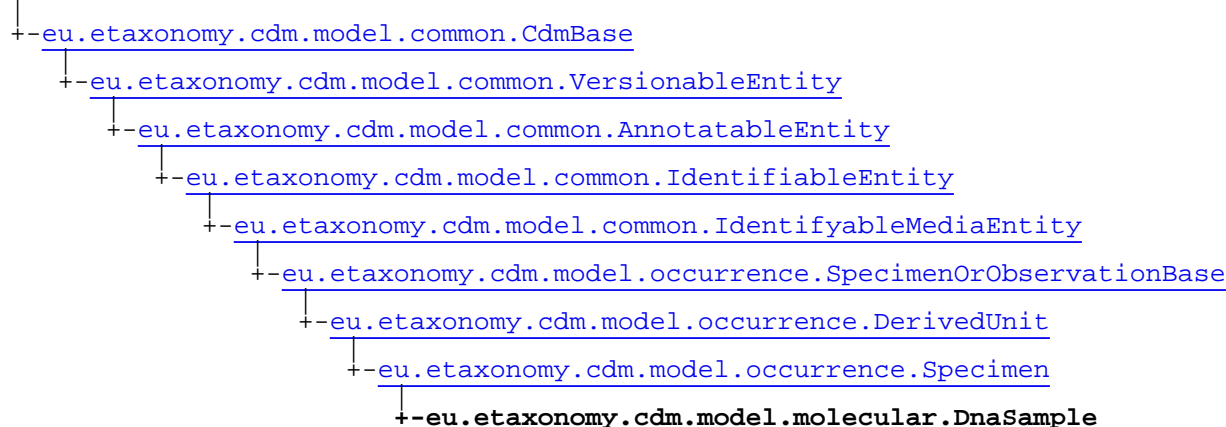
UML Diagrams

Molecular

eu.etaxonomy.cdm.model.molecular

Class DnaSample

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

```
public class DnaSample
extends Specimen
```

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	DnaSample()
--------	-----------------------------

Method Summary

void	addSequences (Sequence sequence)
------	---

java.lang.String	getBankNumber ()
------------------	----------------------------------

java.util.Set	getExtractedFrom ()
---------------	-------------------------------------

java.util.Set	getSequences ()
---------------	---------------------------------

Collection	getStoredAt ()
----------------------------	--------------------------------

void	removeSequences (Sequence sequence)
------	--

void	setBankNumber (java.lang.String bankNumber)
------	---

void	setSequences (java.util.Set sequences)
void	setStoredAt (Collection storedAt)

Methods inherited from class [eu.etaxonomy.cdm.model.occurrence.Specimen](#)[getPreservation](#), [setPreservation](#)**Methods inherited from class** [eu.etaxonomy.cdm.model.occurrence.DerivedUnit](#)[getCatalogNumber](#), [getCollection](#), [getDerivedFrom](#), [getGatheringEvent](#), [getOriginals](#), [getStoredUnder](#), [setCatalogNumber](#), [setCollection](#), [setDerivedFrom](#), [setStoredUnder](#)**Methods inherited from class** [eu.etaxonomy.cdm.model.occurrence.SpecimenOrObservationBase](#)[addDefinition](#), [addDefinition](#), [addDerivationEvent](#), [addDetermination](#), [generateTitle](#), [getDefinition](#), [getDerivationEvents](#), [getDeterminations](#), [getGatheringEvent](#), [getIndividualCount](#), [getLifeStage](#), [getOriginalUnit](#), [getSex](#), [removeDefinition](#), [removeDerivationEvent](#), [removeDetermination](#), [setDerivationEvents](#), [setDeterminations](#), [setIndividualCount](#), [setLifeStage](#), [setSex](#)**Methods inherited from class** [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)**Methods inherited from class** [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)**Methods inherited from class** [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)**Methods inherited from class** [eu.etaxonomy.cdm.model.common.VersionableEntity](#)[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)**Methods inherited from class** [eu.etaxonomy.cdm.model.common.CdmBase](#)[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)**Methods inherited from class** java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

DnaSample

```
public DnaSample()
```

Methods

getSequences

```
public java.util.Set getSequences()
```

setSequences

```
protected void setSequences(java.util.Set sequences)
```

addSequences

```
public void addSequences(Sequence sequence)
```

removeSequences

```
public void removeSequences(Sequence sequence)
```

getStoredAt

```
public Collection getStoredAt()
```

setStoredAt

```
public void setStoredAt(Collection storedAt)
```

(continued from last page)

getExtractedFrom

```
public java.util.Set getExtractedFrom()
```

getBankNumber

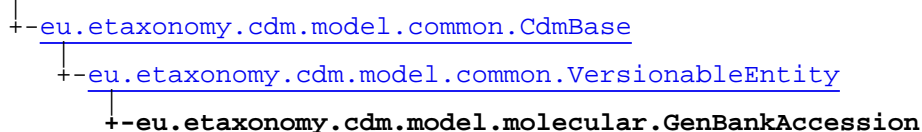
```
public java.lang.String getBankNumber()
```

setBankNumber

```
public void setBankNumber(java.lang.String bankNumber)
```

eu.etaxonomy.cdm.model.molecular Class GenBankAccession

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

public class **GenBankAccession**
extends [VersionableEntity](#)

Constructor Summary

public	GenBankAccession()
--------	------------------------------------

Method Summary

java.lang.String	getAccessionNumber()
java.lang.String	getUri()
void	setAccessionNumber (java.lang.String accessionNumber)
void	setUri (java.lang.String uri)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class java.lang.Object

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Constructors

(continued from last page)

GenBankAccession

```
public GenBankAccession()
```

Methods

getAccessionNumber

```
public java.lang.String getAccessionNumber()
```

setAccessionNumber

```
public void setAccessionNumber(java.lang.String accessionNumber)
```

Parameters:

accessionNumber - accessionNumber

getUri

```
public java.lang.String getUri()
```

setUri

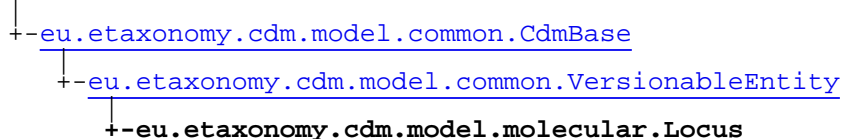
```
public void setUri(java.lang.String uri)
```

Parameters:

uri - uri

eu.etaxonomy.cdm.model.molecular Class Locus

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

public class **Locus**
extends [VersionableEntity](#)

The region name of a DNA string. E.g. 18S, COX, etc.

Constructor Summary

public	Locus()
--------	-------------------------

Method Summary

java.lang.String	getDescription()
java.lang.String	getName()
void	setDescription (java.lang.String description)
void	setName (java.lang.String name)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

(continued from last page)

Constructors

Locus

```
public Locus()
```

Methods

getName

```
public java.lang.String getName()
```

setName

```
public void setName(java.lang.String name)
```

Parameters:

name - name

getDescription

```
public java.lang.String getDescription()
```

setDescription

```
public void setDescription(java.lang.String description)
```

Parameters:

description - description

eu.etaxonomy.cdm.model.molecular Class PhylogeneticTree

```

java.lang.Object
  |
  +- eu.etaxonomy.cdm.model.common.CdmBase
    |
    +- eu.etaxonomy.cdm.model.common.VersionableEntity
      |
      +- eu.etaxonomy.cdm.model.common.AnnotatableEntity
        |
        +- eu.etaxonomy.cdm.model.common.Media
          |
          +- eu.etaxonomy.cdm.model.common.ReferencedMedia
            |
            +- eu.etaxonomy.cdm.model.molecular.PhylogeneticTree
  
```

All Implemented Interfaces:

java.io.Serializable, [IReferencedEntity](#)

```

public class PhylogeneticTree
extends ReferencedMedia
  
```

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	PhylogeneticTree()
--------	------------------------------------

Method Summary

void	addUsedSequences(Sequence usedSequence)
------	---

java.util.Set	getUsedSequences()
---------------	------------------------------------

void	removeUsedSequences(Sequence usedSequence)
------	--

void	setUsedSequences(java.util.Set usedSequences)
------	---

Methods inherited from class [eu.etaxonomy.cdm.model.common.ReferencedMedia](#)

[getCitation](#), [getCitationMicroReference](#), [setCitation](#), [setCitationMicroReference](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.Media](#)

[addDescription](#), [addDescription](#), [addInstance](#), [addRights](#), [getArtist](#), [getDescription](#), [getInstances](#), [getMediaCreated](#), [getRights](#), [getTitle](#), [removeDescription](#), [removeInstance](#), [removeRights](#), [setArtist](#), [setDescription](#), [setInstances](#), [setMediaCreated](#), [setRights](#), [setTitle](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Constructors

PhylogeneticTree

```
public PhylogeneticTree()
```

Methods

getUsedSequences

```
public java.util.Set getUsedSequences()
```

setUsedSequences

```
protected void setUsedSequences(java.util.Set usedSequences)
```

addUsedSequences

```
public void addUsedSequences(Sequence usedSequence)
```

(continued from last page)

removeUsedSequences

```
public void removeUsedSequences(Sequence usedSequence)
```

eu.etaxonomy.cdm.model.molecular Class Sequence

```

java.lang.Object
  |
  +- eu.etaxonomy.cdm.model.common.CdmBase
     |
     +- eu.etaxonomy.cdm.model.common.VersionableEntity
        |
        +- eu.etaxonomy.cdm.model.common.AnnotatableEntity
           |
           +- eu.etaxonomy.cdm.model.common.IdentifiableEntity
              |
              +- eu.etaxonomy.cdm.model.molecular.Sequence
  
```

All Implemented Interfaces:

[IMediaDocumented](#), [IReferencedEntity](#), [java.io.Serializable](#), [IOriginalSource](#)

public class **Sequence**

extends [IdentifiableEntity](#)

implements [IOriginalSource](#), [java.io.Serializable](#), [IReferencedEntity](#), [IMediaDocumented](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public [Sequence](#)()

Method Summary

void [addChromatogram](#)([Media](#) chromatogram)

void [addCitation](#)([ReferenceBase](#) citation)

void [addGenBankAccession](#)([GenBankAccession](#) genBankAccession)

java.lang.String [generateTitle](#)()

java.util.Set [getChromatograms](#)()

[ReferenceBase](#) [getCitation](#)()

java.lang.String [getCitationMicroReference](#)()

java.util.Set [getCitations](#)()

java.util.Calendar [getDateSequenced](#)()

java.util.Set	getGenBankAccession()
java.lang.Integer	getLength()
Locus	getLocus()
java.util.Set	getMedia()
ReferenceBase	getPublishedIn()
java.lang.String	getSequence()
boolean	isBarcode()
void	removeChromatogram(Media chromatogram)
void	removeCitation(ReferenceBase citation)
void	removeGenBankAccession(GenBankAccession genBankAccession)
void	setBarcode(boolean isBarcode)
void	setChromatograms(java.util.Set chromatograms)
void	setCitationMicroReference(java.lang.String citationMicroReference)
void	setCitations(java.util.Set citations)
void	setDateSequenced(java.util.Calendar dateSequenced)
void	setGenBankAccession(java.util.Set genBankAccession)
void	setLength(java.lang.Integer length)
void	setLocus(Locus locus)
void	setPublishedIn(ReferenceBase publishedIn)
void	setSequence(java.lang.String sequence)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

Sequence

```
public Sequence()
```

Methods

getLocus

```
public Locus getLocus()
```

setLocus

```
public void setLocus(Locus locus)
```


getPublishedIn

```
public ReferenceBase getPublishedIn()
```

setPublishedIn

```
public void setPublishedIn(ReferenceBase publishedIn)
```

getCitations

```
public java.util.Set getCitations()
```

setCitations

```
protected void setCitations(java.util.Set citations)
```

addCitation

```
public void addCitation(ReferenceBase citation)
```

removeCitation

```
public void removeCitation(ReferenceBase citation)
```

getGenBankAccession

```
public java.util.Set getGenBankAccession()
```

setGenBankAccession

```
protected void setGenBankAccession(java.util.Set genBankAccession)
```

addGenBankAccession

```
public void addGenBankAccession(GenBankAccession genBankAccession)
```

removeGenBankAccession

```
public void removeGenBankAccession(GenBankAccession genBankAccession)
```

(continued from last page)

getChromatograms

```
public java.util.Set getChromatograms()
```

setChromatograms

```
protected void setChromatograms(java.util.Set chromatograms)
```

addChromatogram

```
public void addChromatogram(Media chromatogram)
```

removeChromatogram

```
public void removeChromatogram(Media chromatogram)
```

getMedia

```
public java.util.Set getMedia()
```

getSequence

```
public java.lang.String getSequence()
```

setSequence

```
public void setSequence(java.lang.String sequence)
```

Parameters:

sequence - sequence

getLength

```
public java.lang.Integer getLength()
```

setLength

```
public void setLength(java.lang.Integer length)
```

(continued from last page)

Parameters:

length - length

getDateSequencedpublic java.util.Calendar **getDateSequenced**()

setDateSequencedpublic void **setDateSequenced**(java.util.Calendar dateSequenced)**Parameters:**

dateSequenced - dateSequenced

isBarcodepublic boolean **isBarcode**()

setBarcodepublic void **setBarcode**(boolean isBarcode)**Parameters:**

isBarcode - isBarcode

getCitationMicroReferencepublic java.lang.String **getCitationMicroReference**()

setCitationMicroReferencepublic void **setCitationMicroReference**(java.lang.String citationMicroReference)**Parameters:**

citationMicroReference - citationMicroReference

generateTitlepublic java.lang.String **generateTitle**()

getCitationpublic [ReferenceBase](#) **getCitation**()

(continued from last page)

Package

eu.etaxonomy.cdm.model.name

Package: "name"

Provides classes for nomenclature and typification.

Related Documentation

- [TDWG Taxon Name LSID Ontology](#)
- [TCS schema](#)
- [ABCD schema](#)

UML Diagrams

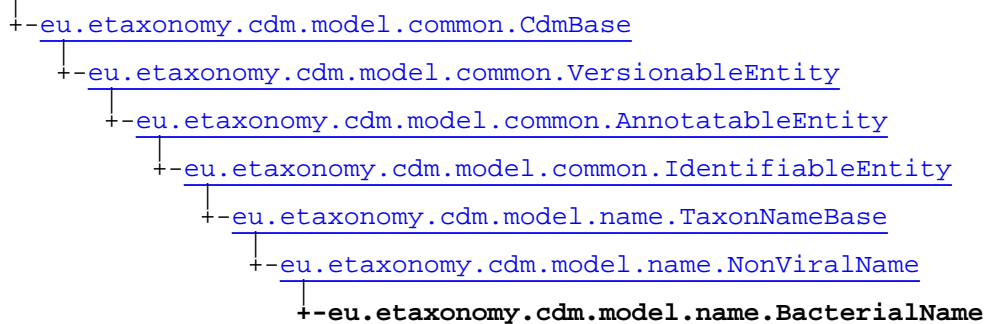
Name section

Type section

Nomenclatural terms

eu.etaxonomy.cdm.model.name Class BacterialName

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IReferencedEntity](#)

```
public class BacterialName
extends NonViralName
```

Taxon name class for bacteria

Fields inherited from class [eu.etaxonomy.cdm.model.name.TaxonNameBase](#)

[cacheStrategy](#), [nameParser](#), [nameTypeDesignations](#), [protectedNameCache](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	BacterialName (Rank rank)
--------	--

Method Summary

java.lang.String	getNameApprobation ()
------------------	---------------------------------------

java.lang.String	getSubGenusAuthorship ()
------------------	--

void	setNameApprobation (java.lang.String nameApprobation)
------	---

void	setSubGenusAuthorship (java.lang.String subGenusAuthorship)
------	---

Methods inherited from class [eu.etaxonomy.cdm.model.name.NonViralName](#)

[generateTitle](#), [getAuthorshipCache](#), [getBasionymAuthorTeam](#), [getCombinationAuthorTeam](#), [getExBasionymAuthorTeam](#), [getExCombinationAuthorTeam](#), [getGenusOrUninomial](#), [getInfraGenericEpithet](#), [getInfraSpecificEpithet](#), [getSpecificEpithet](#), [isCodeCompliant](#), [setAuthorshipCache](#), [setBasionymAuthorTeam](#), [setCombinationAuthorTeam](#), [setExBasionymAuthorTeam](#), [setExCombinationAuthorTeam](#), [setGenusOrUninomial](#), [setInfraGenericEpithet](#), [setInfraSpecificEpithet](#), [setSpecificEpithet](#)

Methods inherited from class [eu.etaxonomy.cdm.model.name.TaxonNameBase](#)

[addNameRelationship](#), [addRelationshipFromName](#), [addRelationshipToName](#), [addStatus](#), [addTypeDesignation](#), [addTypeDesignation](#), [generateNameCache](#), [getAppendedPhrase](#), [getBasionym](#), [getCacheStrategy](#), [getCitation](#), [getCitationString](#), [getHasProblem](#), [getHomotypicalGroup](#), [getNameCache](#), [getNameRelations](#), [getNameTypeDesignations](#), [getNomenclaturalMicroReference](#), [getNomenclaturalReference](#), [getProblems](#), [getRank](#), [getRelationsFromThisName](#), [getRelationsToThisName](#), [getSpecimenTypeDesignations](#), [getStatus](#), [getSynonyms](#), [getTaxa](#), [getYear](#), [isCodeCompliant](#), [isGenus](#), [isInfraGeneric](#), [isInfraSpecific](#), [isSpecies](#), [isSupraGeneric](#), [isSupraGeneric](#), [removeNameRelationship](#), [removeStatus](#), [removeTypeDesignation](#), [removeTypeDesignation](#), [setAppendedPhrase](#), [setBasionym](#), [setBasionym](#), [setCacheStrategy](#), [setHasProblem](#), [setHomotypicalGroup](#), [setNameCache](#), [setNameTypeDesignations](#), [setNomenclaturalMicroReference](#), [setNomenclaturalReference](#), [setRank](#), [setStatus](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Constructors

BacterialName

```
public BacterialName(Rank rank)
```

Methods

getSubGenusAuthorship

```
public java.lang.String getSubGenusAuthorship()
```

setSubGenusAuthorship

```
public void setSubGenusAuthorship(java.lang.String subGenusAuthorship)
```

Parameters:

subGenusAuthorship - subGenusAuthorship

getNameApprobation

```
public java.lang.String getNameApprobation()
```

setNameApprobation

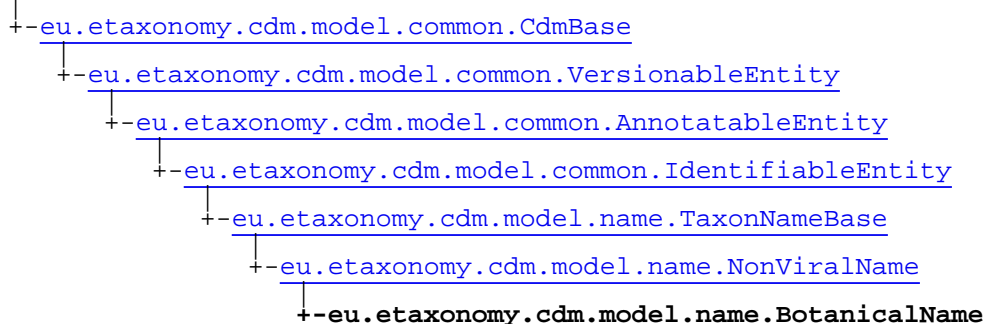
```
public void setNameApprobation(java.lang.String nameApprobation)
```

Parameters:

nameApprobation - nameApprobation

eu.etaxonomy.cdm.model.name Class BotanicalName

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IReferencedEntity](#)

Direct Known Subclasses:

[CultivarPlantName](#)

public class **BotanicalName**

extends [NonViralName](#)

Taxon name class for plants

Fields inherited from class [eu.etaxonomy.cdm.model.name.TaxonNameBase](#)

[cacheStrategy](#), [nameParser](#), [nameTypeDesignations](#), [protectedNameCache](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

protected	BotanicalName()
public	BotanicalName(Rank rank)
public	BotanicalName(Rank rank, java.lang.String genusOrUninomial, java.lang.String specificEpithet, java.lang.String infraSpecificEpithet, Agent combinationAuthorTeam, INomenclaturalReference nomenclaturalReference, java.lang.String nomenclMicroRef)

Method Summary

void	addHybridRelationship(HybridRelationship relationship)
java.util.Set	getChildRelationships()

java.util.Set	getHybridRelationships()
java.util.Set	getParentRelationships()
boolean	isAnamorphic()
boolean	isBinomHybrid()
boolean	isHybridFormula()
boolean	isMonomHybrid()
boolean	isTrinomHybrid()
static BotanicalName	newInstance(Rank rank)
static BotanicalName	PARSED_NAME(java.lang.String fullName) Returns a parsed Name
static BotanicalName	PARSED_NAME(java.lang.String fullName, Rank rank) Returns a parsed Name
void	removeHybridRelationship(HybridRelationship relationship)
void	setAnamorphic(boolean isAnamorphic)
void	setBinomHybrid(boolean isBinomHybrid)
void	setHybridFormula(boolean isHybridFormula)
void	setHybridRelationships(java.util.Set relationships)
void	setMonomHybrid(boolean isMonomHybrid)
void	setTrinomHybrid(boolean isTrinomHybrid)

Methods inherited from class [eu.etaxonomy.cdm.model.name.NonViralName](#)

[generateTitle](#), [getAuthorshipCache](#), [getBasionymAuthorTeam](#), [getCombinationAuthorTeam](#), [getExBasionymAuthorTeam](#), [getExCombinationAuthorTeam](#), [getGenusOrUninomial](#), [getInfraGenericEpithet](#), [getInfraSpecificEpithet](#), [getSpecificEpithet](#), [isCodeCompliant](#), [setAuthorshipCache](#), [setBasionymAuthorTeam](#), [setCombinationAuthorTeam](#), [setExBasionymAuthorTeam](#), [setExCombinationAuthorTeam](#), [setGenusOrUninomial](#), [setInfraGenericEpithet](#), [setInfraSpecificEpithet](#), [setSpecificEpithet](#)

Methods inherited from class [eu.etaxonomy.cdm.model.name.TaxonNameBase](#)

[addNameRelationship](#), [addRelationshipFromName](#), [addRelationshipToName](#), [addStatus](#), [addTypeDesignation](#), [addTypeDesignation](#), [generateNameCache](#), [getAppendedPhrase](#), [getBasionym](#), [getCacheStrategy](#), [getCitation](#), [getCitationString](#), [getHasProblem](#), [getHomotypicalGroup](#), [getNameCache](#), [getNameRelations](#), [getNameTypeDesignations](#), [getNomenclaturalMicroReference](#), [getNomenclaturalReference](#), [getProblems](#), [getRank](#), [getRelationsFromThisName](#), [getRelationsToThisName](#), [getSpecimenTypeDesignations](#), [getStatus](#), [getSynonyms](#), [getTaxa](#), [getYear](#), [isCodeCompliant](#), [isGenus](#), [isInfraGeneric](#), [isInfraSpecific](#), [isSpecies](#), [isSupraGeneric](#), [isSupraGeneric](#), [removeNameRelationship](#), [removeStatus](#), [removeTypeDesignation](#), [removeTypeDesignation](#), [setAppendedPhrase](#), [setBasionym](#), [setBasionym](#), [setCacheStrategy](#), [setHasProblem](#), [setHomotypicalGroup](#), [setNameCache](#), [setNameTypeDesignations](#), [setNomenclaturalMicroReference](#), [setNomenclaturalReference](#), [setRank](#), [setStatus](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Constructors

(continued from last page)

BotanicalName

```
protected BotanicalName()
```

BotanicalName

```
public BotanicalName(Rank rank)
```

BotanicalName

```
public BotanicalName(Rank rank,  
                    java.lang.String genusOrUninomial,  
                    java.lang.String specificEpithet,  
                    java.lang.String infraSpecificEpithet,  
                    Agent combinationAuthorTeam,  
                    INomenclaturalReference nomenclaturalReference,  
                    java.lang.String nomenclMicroRef)
```

Methods

NewInstance

```
public static BotanicalName NewInstance(Rank rank)
```

Parameters:

rank

Returns:

PARSED_NAME

```
public static BotanicalName PARSED_NAME(java.lang.String fullName)
```

Returns a parsed Name

Parameters:

fullName

Returns:

PARSED_NAME

```
public static BotanicalName PARSED_NAME(java.lang.String fullName,  
    Rank rank)
```

Returns a parsed Name

Parameters:

fullName

(continued from last page)

Returns:

getHybridRelationships

```
public java.util.Set getHybridRelationships()
```

setHybridRelationships

```
protected void setHybridRelationships(java.util.Set relationships)
```

addHybridRelationship

```
public void addHybridRelationship(HybridRelationship relationship)
```

removeHybridRelationship

```
public void removeHybridRelationship(HybridRelationship relationship)
```

getParentRelationships

```
public java.util.Set getParentRelationships()
```

getChildRelationships

```
public java.util.Set getChildRelationships()
```

isHybridFormula

```
public boolean isHybridFormula()
```

setHybridFormula

```
public void setHybridFormula(boolean isHybridFormula)
```

Parameters:

```
isHybridFormula - isHybridFormula
```

isMonomHybrid

```
public boolean isMonomHybrid()
```

(continued from last page)

setMonomHybrid

```
public void setMonomHybrid(boolean isMonomHybrid)
```

Parameters:

isMonomHybrid - isMonomHybrid

isBinomHybrid

```
public boolean isBinomHybrid()
```

setBinomHybrid

```
public void setBinomHybrid(boolean isBinomHybrid)
```

Parameters:

isBinomHybrid - isBinomHybrid

isTrinomHybrid

```
public boolean isTrinomHybrid()
```

setTrinomHybrid

```
public void setTrinomHybrid(boolean isTrinomHybrid)
```

Parameters:

isTrinomHybrid - isTrinomHybrid

isAnamorphic

```
public boolean isAnamorphic()
```

setAnamorphic

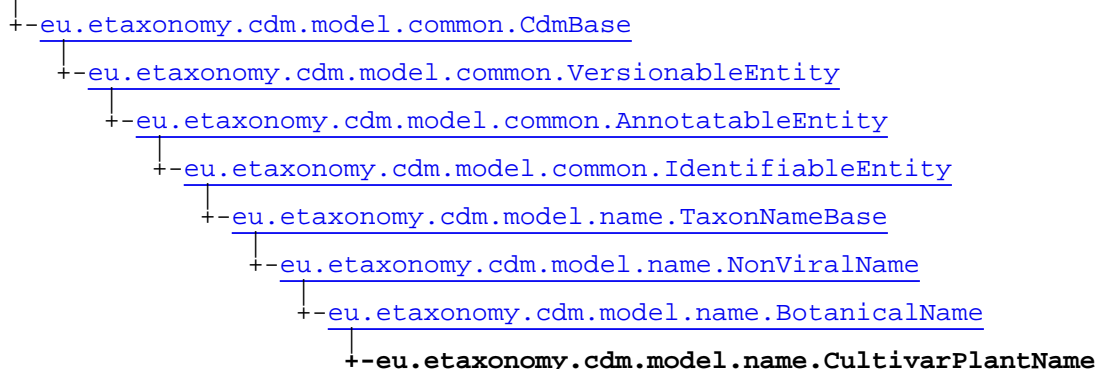
```
public void setAnamorphic(boolean isAnamorphic)
```

Parameters:

isAnamorphic - isAnamorphic

eu.etaxonomy.cdm.model.name Class CultivarPlantName

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IReferencedEntity](#)

public class **CultivarPlantName**
extends [BotanicalName](#)

Taxon name class for cultivars. {only possible for CULTIVAR, GREX, CONVAR, CULTIVAR_GROUP, GRAFT_CHIMAERA and DENOMINATION_CLASS ranks}

Fields inherited from class [eu.etaxonomy.cdm.model.name.TaxonNameBase](#)

[cacheStrategy](#), [nameParser](#), [nameTypeDesignations](#), [protectedNameCache](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public [CultivarPlantName](#)([Rank](#) rank)

Method Summary

java.lang.String [getCultivarName](#)()

void [setCultivarName](#)(java.lang.String cultivarName)

Methods inherited from class [eu.etaxonomy.cdm.model.name.BotanicalName](#)

[addHybridRelationship](#), [getChildRelationships](#), [getHybridRelationships](#), [getParentRelationships](#), [isAnamorphic](#), [isBinomHybrid](#), [isHybridFormula](#), [isMonomHybrid](#), [isTrinomHybrid](#), [newInstance](#), [PARSED_NAME](#), [PARSED_NAME](#), [removeHybridRelationship](#), [setAnamorphic](#), [setBinomHybrid](#), [setHybridFormula](#), [setHybridRelationships](#), [setMonomHybrid](#), [setTrinomHybrid](#)

Methods inherited from class [eu.etaxonomy.cdm.model.name.NonViralName](#)

[generateTitle](#), [getAuthorshipCache](#), [getBasionymAuthorTeam](#), [getCombinationAuthorTeam](#), [getExBasionymAuthorTeam](#), [getExCombinationAuthorTeam](#), [getGenusOrUninomial](#), [getInfraGenericEpithet](#), [getInfraSpecificEpithet](#), [getSpecificEpithet](#), [isCodeCompliant](#), [setAuthorshipCache](#), [setBasionymAuthorTeam](#), [setCombinationAuthorTeam](#), [setExBasionymAuthorTeam](#), [setExCombinationAuthorTeam](#), [setGenusOrUninomial](#), [setInfraGenericEpithet](#), [setInfraSpecificEpithet](#), [setSpecificEpithet](#)

Methods inherited from class [eu.etaxonomy.cdm.model.name.TaxonNameBase](#)

[addNameRelationship](#), [addRelationshipFromName](#), [addRelationshipToName](#), [addStatus](#), [addTypeDesignation](#), [addTypeDesignation](#), [generateNameCache](#), [getAppendedPhrase](#), [getBasionym](#), [getCacheStrategy](#), [getCitation](#), [getCitationString](#), [getHasProblem](#), [getHomotypicalGroup](#), [getNameCache](#), [getNameRelations](#), [getNameTypeDesignations](#), [getNomenclaturalMicroReference](#), [getNomenclaturalReference](#), [getProblems](#), [getRank](#), [getRelationsFromThisName](#), [getRelationsToThisName](#), [getSpecimenTypeDesignations](#), [getStatus](#), [getSynonyms](#), [getTaxa](#), [getYear](#), [isCodeCompliant](#), [isGenus](#), [isInfraGeneric](#), [isInfraSpecific](#), [isSpecies](#), [isSupraGeneric](#), [isSupraGeneric](#), [removeNameRelationship](#), [removeStatus](#), [removeTypeDesignation](#), [removeTypeDesignation](#), [setAppendedPhrase](#), [setBasionym](#), [setBasionym](#), [setCacheStrategy](#), [setHasProblem](#), [setHomotypicalGroup](#), [setNameCache](#), [setNameTypeDesignations](#), [setNomenclaturalMicroReference](#), [setNomenclaturalReference](#), [setRank](#), [setStatus](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Constructors

CultivarPlantName

```
public CultivarPlantName(Rank rank)
```

Methods

getCultivarName

```
public java.lang.String getCultivarName()
```

setCultivarName

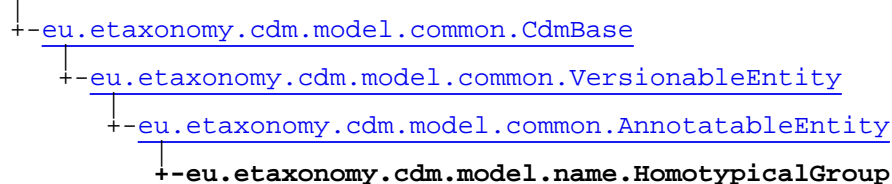
```
public void setCultivarName(java.lang.String cultivarName)
```

Parameters:

cultivarName - cultivarName

eu.etaxonomy.cdm.model.name Class HomotypicalGroup

java.lang.Object



All Implemented Interfaces:

java.io.Serializable

public class **HomotypicalGroup**
extends [AnnotatableEntity](#)

A homotypical group represents all names that share the same type specimens. This also includes supergeneric names like genera or families which usually have a name type designation that finally (a name type designation can also point to another supergeneric name) points to a species name, which in turn has a (set of) physical type specimen(s).

Field Summary

protected	typeDesignations
protected	typifiedNames

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	HomotypicalGroup()
--------	------------------------------------

Method Summary

void	addTypeDesignation (SpecimenTypeDesignation typeDesignation)
void	addTypeDesignation (Specimen typeSpecimen, TypeDesignationStatus status, ReferenceBase citation, java.lang.String citationMicroReference, java.lang.String originalNameString)
void	addTypifiedName (TaxonNameBase typifiedName)
java.util.List	getSynonymsInGroup (ReferenceBase sec) Retrieves the synonyms of reference sec that are part of this homotypical group.
java.util.Set	getTypeDesignations ()

java.util.Set	getTypifiedNames()
void	removeTypeDesignation(SpecimenTypeDesignation typeDesignation)
void	removeTypifiedName(TaxonNameBase typifiedName)
void	setTypeDesignations(java.util.Set typeDesignations)
void	setTypifiedNames(java.util.Set typifiedNames)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class java.lang.Object

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Fields

typifiedNames

protected java.util.Set **typifiedNames**

typeDesignations

protected java.util.Set **typeDesignations**

Constructors

HomotypicalGroup

public **HomotypicalGroup**()

(continued from last page)

Methods

getTypifiedNames

```
public java.util.Set getTypifiedNames()
```

setTypifiedNames

```
protected void setTypifiedNames(java.util.Set typifiedNames)
```

addTypifiedName

```
public void addTypifiedName(TaxonNameBase typifiedName)
```

removeTypifiedName

```
public void removeTypifiedName(TaxonNameBase typifiedName)
```

getTypeDesignations

```
public java.util.Set getTypeDesignations()
```

setTypeDesignations

```
protected void setTypeDesignations(java.util.Set typeDesignations)
```

addTypeDesignation

```
public void addTypeDesignation(SpecimenTypeDesignation typeDesignation)
```

removeTypeDesignation

```
public void removeTypeDesignation(SpecimenTypeDesignation typeDesignation)
```

(continued from last page)

addTypeDesignation

```
public void addTypeDesignation(Specimen typeSpecimen,  
    TypeDesignationStatus status,  
    ReferenceBase citation,  
    java.lang.String citationMicroReference,  
    java.lang.String originalNameString)
```

getSynonymsInGroup

```
public java.util.List getSynonymsInGroup(ReferenceBase sec)
```

Retrieves the synonyms of reference sec that are part of this homotypical group. If other names are part of this group that are not considered synonyms in the respective sec-reference, then they will not be included in the resultset.

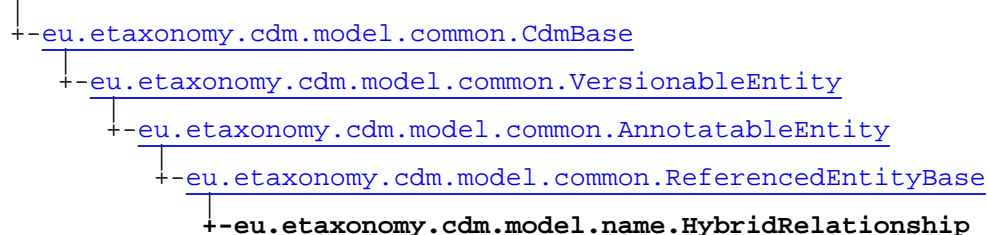
Parameters:

sec

Returns:

eu.etaxonomy.cdm.model.name Class HybridRelationship

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IReferencedEntity](#)

public class **HybridRelationship**
extends [ReferencedEntityBase](#)

<http://rs.tdwg.org/ontology/voc/TaxonName.rdf#NomenclaturalNote>

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	HybridRelationship()
--------	--------------------------------------

Method Summary

BotanicalName	getHybridName()
-------------------------------	---------------------------------

BotanicalName	getParentName()
-------------------------------	---------------------------------

java.lang.String	getRuleConsidered()
------------------	-------------------------------------

HybridRelationshipType e	getType()
---	---------------------------

void	setHybridName(BotanicalName hybridName)
------	---

void	setParentName(BotanicalName parentName)
------	---

void	setRuleConsidered(java.lang.String ruleConsidered)
------	--

void	setType(HybridRelationshipType type)
------	--

Methods inherited from class [eu.etaxonomy.cdm.model.common.ReferencedEntityBase](#)

[getCitation](#), [getCitationMicroReference](#), [getOriginalNameString](#), [setCitation](#), [setCitationMicroReference](#), [setOriginalNameString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Constructors

HybridRelationship

```
public HybridRelationship()
```

Methods

getType

```
public HybridRelationshipType getType()
```

setType

```
public void setType(HybridRelationshipType type)
```

(continued from last page)

getParentName

```
public BotanicalName getParentName()
```

setParentName

```
public void setParentName(BotanicalName parentName)
```

getHybridName

```
public BotanicalName getHybridName()
```

setHybridName

```
public void setHybridName(BotanicalName hybridName)
```

getRuleConsidered

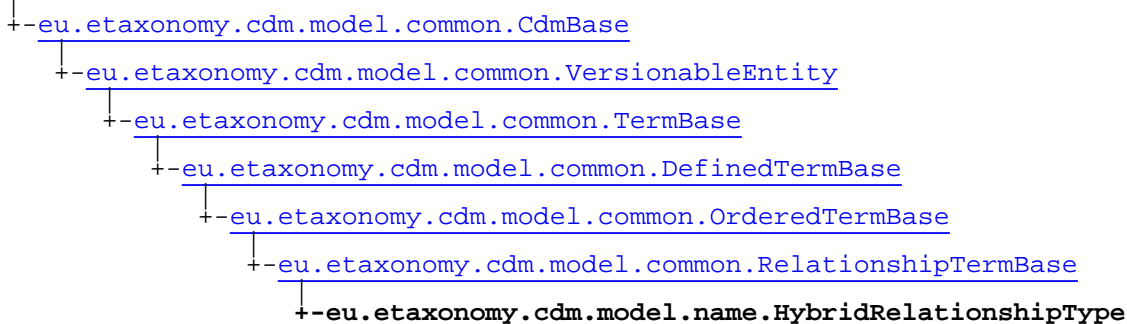
```
public java.lang.String getRuleConsidered()
```

setRuleConsidered

```
public void setRuleConsidered(java.lang.String ruleConsidered)
```

eu.etaxonomy.cdm.model.name Class HybridRelationshipType

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#), java.lang.Comparable

public class **HybridRelationshipType**
extends [RelationshipTermBase](#)

The list should be extensible at runtime through configuration. This needs to be investigated.

Fields inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[orderIndex](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	HybridRelationshipType ()
public	HybridRelationshipType (java.lang.String term, java.lang.String label, boolean symmetric, boolean transitive)

Method Summary

static HybridRelationshipType e	FEMALE_PARENT ()
static HybridRelationshipType e	FIRST_PARENT ()
static HybridRelationshipType e	MALE_PARENT ()
static HybridRelationshipType e	SECOND_PARENT ()

Methods inherited from class [eu.etaxonomy.cdm.model.common.RelationshipTermBase](#)

[addInverseRepresentation](#), [addRepresentation](#), [getInverseDescription](#), [getInverseDescription](#), [getInverseLabel](#), [getInverseLabel](#), [getInverseRepresentation](#), [getInverseRepresentations](#), [isSymmetric](#), [isTransitive](#), [readCsvLine](#), [removeInverseRepresentation](#), [setInverseRepresentations](#), [setSymmetric](#), [setTransitive](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[compareTo](#), [decreaseIndex](#), [equals](#), [incrementIndex](#), [isHigher](#), [isLower](#), [setVocabulary](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Methods inherited from interface [java.lang.Comparable](#)

[compareTo](#)

Constructors

(continued from last page)

HybridRelationshipType

```
public HybridRelationshipType()
```

HybridRelationshipType

```
public HybridRelationshipType(java.lang.String term,  
                             java.lang.String label,  
                             boolean symmetric,  
                             boolean transitive)
```

Methods

FIRST_PARENT

```
public final static HybridRelationshipType FIRST_PARENT()
```

SECOND_PARENT

```
public final static HybridRelationshipType SECOND_PARENT()
```

FEMALE_PARENT

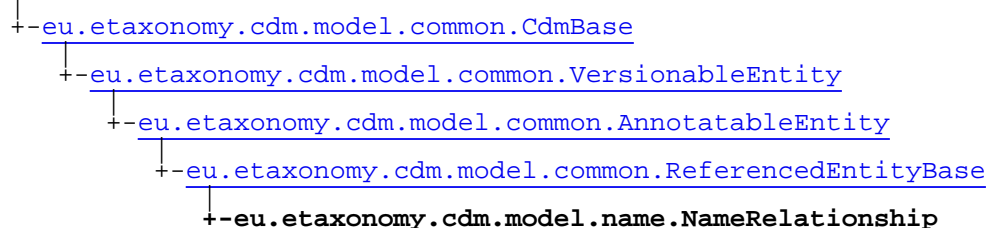
```
public final static HybridRelationshipType FEMALE_PARENT()
```

MALE_PARENT

```
public final static HybridRelationshipType MALE_PARENT()
```

eu.etaxonomy.cdm.model.name Class NameRelationship

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IReferencedEntity](#)

public class **NameRelationship**
extends [ReferencedEntityBase](#)

<http://rs.tdwg.org/ontology/voc/TaxonName.rdf#NomenclaturalNote>

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

protected	NameRelationship (TaxonNameBase toName, TaxonNameBase fromName, NameRelationshipType type, java.lang.String ruleConsidered) creates a relationship between 2 names and adds this relationship object to the respective name relation sets
-----------	--

Method Summary

TaxonNameBase	getFromName()
-------------------------------	-------------------------------

java.lang.String	getRuleConsidered()
------------------	-------------------------------------

TaxonNameBase	getToName()
-------------------------------	-----------------------------

NameRelationshipType	getType()
--------------------------------------	---------------------------

Methods inherited from class [eu.etaxonomy.cdm.model.common.ReferencedEntityBase](#)

[getCitation](#), [getCitationMicroReference](#), [getOriginalNameString](#), [setCitation](#), [setCitationMicroReference](#), [setOriginalNameString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Constructors

NameRelationship

```
protected NameRelationship(TaxonNameBase toName,
                           TaxonNameBase fromName,
                           NameRelationshipType type,
                           java.lang.String ruleConsidered)
```

creates a relationship between 2 names and adds this relationship object to the respective name relation sets

Parameters:

`toName`
`fromName`
`type`
`ruleConsidered`

Methods

getFromName

```
public TaxonNameBase getFromName()
```

getType

```
public NameRelationshipType getType()
```

getToName

```
public TaxonNameBase getToName()
```

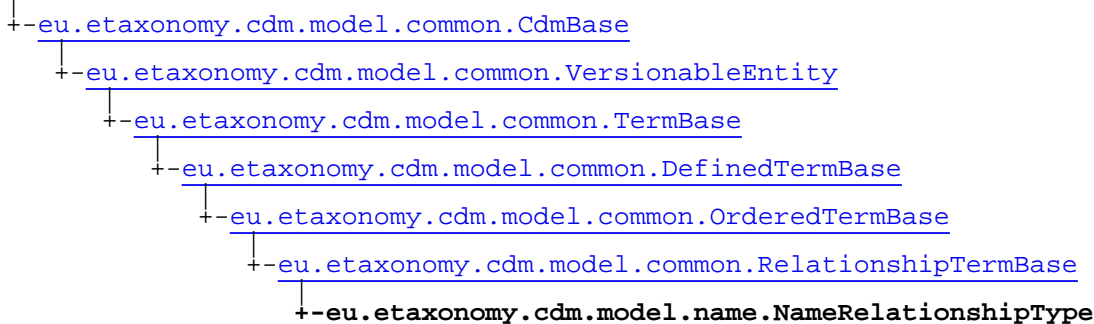
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getRuleConsidered

```
public java.lang.String getRuleConsidered()
```

eu.etaxonomy.cdm.model.name Class NameRelationshipType

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#), java.lang.Comparable

public class **NameRelationshipType**
extends [RelationshipTermBase](#)

<http://rs.tdwg.org/ontology/voc/TaxonName.rdf#NomenclaturalNoteTypeTerm>

Fields inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[orderIndex](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	NameRelationshipType ()
public	NameRelationshipType (java.lang.String term, java.lang.String label, boolean symmetric, boolean transitive)

Method Summary

static NameRelationshipType	ALTERNATIVE_NAME ()
static NameRelationshipType	BASIONYM ()
static NameRelationshipType	BLOCKING_NAME_FOR ()
static NameRelationshipType	CONSERVED_AGAINST ()
boolean	isIllegitimateType ()

boolean	isInvalidType()
boolean	isLegitimateType()
static NameRelationshipType	LATER_HOMONYM()
static NameRelationshipType	LATER_VALIDATED_BY_NAME()
static NameRelationshipType	ORTHOGRAPHIC_VARIANT()
static NameRelationshipType	REPLACED_SYNONYM()
static NameRelationshipType	TREATED_AS_LATER_HOMONYM()
static NameRelationshipType	VALIDATED_BY_NAME()

Methods inherited from class [eu.etaxonomy.cdm.model.common.RelationshipTermBase](#)

[addInverseRepresentation](#), [addRepresentation](#), [getInverseDescription](#), [getInverseDescription](#), [getInverseLabel](#), [getInverseLabel](#), [getInverseRepresentation](#), [getInverseRepresentations](#), [isSymmetric](#), [isTransitive](#), [readCsvLine](#), [removeInverseRepresentation](#), [setInverseRepresentations](#), [setSymmetric](#), [setTransitive](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[compareTo](#), [decreaseIndex](#), [equals](#), [incrementIndex](#), [isHigher](#), [isLower](#), [setVocabulary](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface `eu.etaxonomy.cdm.model.common.IDefTerm`

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Methods inherited from interface `java.lang.Comparable`

`compareTo`

Constructors

NameRelationshipType

```
public NameRelationshipType()
```

NameRelationshipType

```
public NameRelationshipType(java.lang.String term,
                           java.lang.String label,
                           boolean symmetric,
                           boolean transitive)
```

Methods

isInvalidType

```
public boolean isInvalidType()
```

isLegitimateType

```
public boolean isLegitimateType()
```

isIllegitimateType

```
public boolean isIllegitimateType()
```

ORTHOGRAPHIC_VARIANT

```
public final static NameRelationshipType ORTHOGRAPHIC_VARIANT()
```

LATER_HOMONYM

```
public final static NameRelationshipType LATER_HOMONYM()
```

TREATED_AS_LATER_HOMONYM

```
public final static NameRelationshipType TREATED_AS_LATER_HOMONYM()
```

ALTERNATIVE_NAME

```
public final static NameRelationshipType ALTERNATIVE_NAME()
```

BASIONYM

```
public final static NameRelationshipType BASIONYM()
```

REPLACED_SYNONYM

```
public final static NameRelationshipType REPLACED_SYNONYM()
```

CONSERVED_AGAINST

```
public final static NameRelationshipType CONSERVED_AGAINST()
```

VALIDATED_BY_NAME

```
public final static NameRelationshipType VALIDATED_BY_NAME()
```

LATER_VALIDATED_BY_NAME

```
public final static NameRelationshipType LATER_VALIDATED_BY_NAME()
```

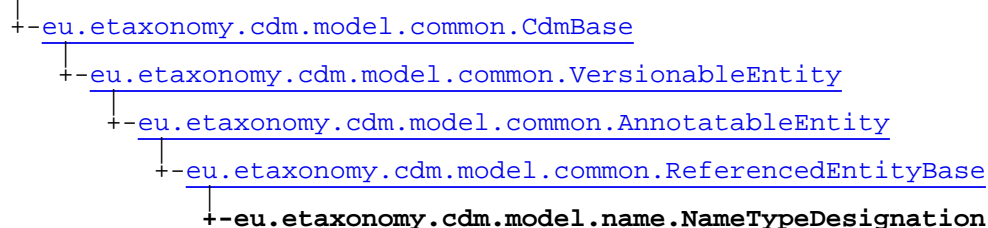
BLOCKING_NAME_FOR

```
public final static NameRelationshipType BLOCKING_NAME_FOR()
```

(continued from last page)

eu.etaxonomy.cdm.model.name Class NameTypeDesignation

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IReferencedEntity](#)

public class **NameTypeDesignation**
extends [ReferencedEntityBase](#)

{only for typified names which have a rank above "species", in this case the type has to be a "species" name}

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

protected	NameTypeDesignation (TaxonNameBase typifiedName, TaxonNameBase typeSpecies, ReferenceBase citation, java.lang.String citationMicroReference, java.lang.String originalNameString, boolean isRejectedType, boolean isConservedType)
-----------	---

Method Summary

TaxonNameBase	getTypeSpecies ()
TaxonNameBase	getTypifiedName ()
boolean	isConservedType ()
boolean	isRejectedType ()
void	setConservedType (boolean isConservedType)
void	setRejectedType (boolean isRejectedType)

Methods inherited from class [eu.etaxonomy.cdm.model.common.ReferencedEntityBase](#)

[getCitation](#), [getCitationMicroReference](#), [getOriginalNameString](#), [setCitation](#), [setCitationMicroReference](#), [setOriginalNameString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#),
[removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#),
[getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#),
[firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#),
[firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#),
[removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#),
[setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#),
[wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Constructors

NameTypeDesignation

```
protected NameTypeDesignation(TaxonNameBase typifiedName,  

TaxonNameBase typeSpecies,  

ReferenceBase citation,  

java.lang.String citationMicroReference,  

java.lang.String originalNameString,  

boolean isRejectedType,  

boolean isConservedType)
```

Methods

getTypifiedName

```
public TaxonNameBase getTypifiedName()
```

getTypeSpecies

```
public TaxonNameBase getTypeSpecies()
```

(continued from last page)

isRejectedType

```
public boolean isRejectedType()
```

setRejectedType

```
public void setRejectedType(boolean isRejectedType)
```

isConservedType

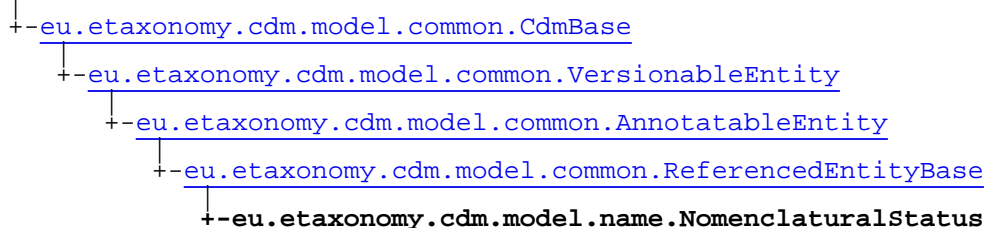
```
public boolean isConservedType()
```

setConservedType

```
public void setConservedType(boolean isConservedType)
```

eu.etaxonomy.cdm.model.name Class NomenclaturalStatus

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IReferencedEntity](#)

public class **NomenclaturalStatus**
extends [ReferencedEntityBase](#)

<http://rs.tdwg.org/ontology/voc/TaxonName.rdf#PublicationStatus>

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	NomenclaturalStatus()
--------	---------------------------------------

Method Summary

java.lang.String	getRuleConsidered()
------------------	-------------------------------------

NomenclaturalStatusType	getType()
---	---------------------------

void	setRuleConsidered (java.lang.String ruleConsidered)
------	---

void	setType (NomenclaturalStatusType type)
------	---

Methods inherited from class [eu.etaxonomy.cdm.model.common.ReferencedEntityBase](#)

[getCitation](#), [getCitationMicroReference](#), [getOriginalNameString](#), [setCitation](#), [setCitationMicroReference](#), [setOriginalNameString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#),
[getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#),
[firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#),
[firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#),
[removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#),
[setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#),
[wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Constructors

NomenclaturalStatus

```
public NomenclaturalStatus()
```

Methods

getType

```
public NomenclaturalStatusType getType()
```

setType

```
public void setType(NomenclaturalStatusType type)
```

Parameters:

type - type

getRuleConsidered

```
public java.lang.String getRuleConsidered()
```

setRuleConsidered

```
public void setRuleConsidered(java.lang.String ruleConsidered)
```

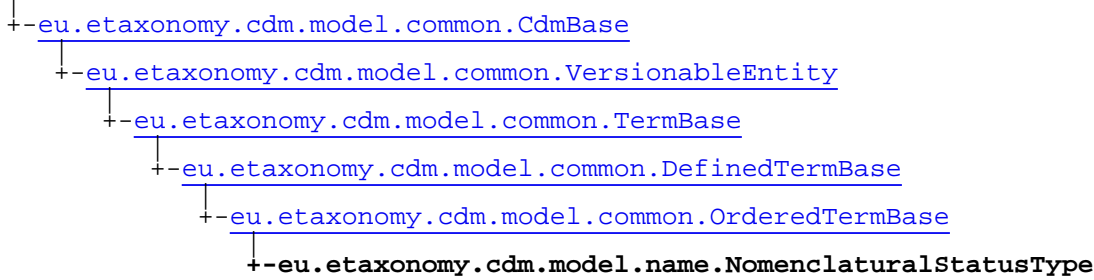

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Parameters:

ruleConsidered - ruleConsidered

eu.etaxonomy.cdm.model.name Class NomenclaturalStatusType

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#), java.lang.Comparable

public class **NomenclaturalStatusType**
extends [OrderedTermBase](#)

<http://rs.tdwg.org/ontology/voc/TaxonName.rdf#PublicationStatus>

Fields inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[orderIndex](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	NomenclaturalStatusType ()
public	NomenclaturalStatusType (java.lang.String term, java.lang.String label)

Method Summary

static NomenclaturalStatusType pe	ALTERNATIVE ()
static NomenclaturalStatusType pe	AMBIGUOUS ()
static NomenclaturalStatusType pe	COMBINATION_INVALID ()
static NomenclaturalStatusType pe	CONFUSUM ()

static NomenclaturalStatusType pe	CONSERVED_PROP()
static NomenclaturalStatusType pe	CONSERVED()
static NomenclaturalStatusType pe	DOUBTFUL()
static NomenclaturalStatusType pe	ILLEGITIMATE()
static NomenclaturalStatusType pe	INVALID()
boolean	isIllegitimateType()
boolean	isInvalidType()
boolean	isLegitimateType()
static NomenclaturalStatusType pe	LEGITIMATE()
static NomenclaturalStatusType pe	NOVUM()
static NomenclaturalStatusType pe	NUDUM()
static NomenclaturalStatusType pe	ORTHOGRAPHY_CONSERVED_PROP()
static NomenclaturalStatusType pe	ORTHOGRAPHY_CONSERVED()
static NomenclaturalStatusType pe	PROVISIONAL()
static NomenclaturalStatusType pe	REJECTED_PROP()
static NomenclaturalStatusType pe	REJECTED()
static NomenclaturalStatusType pe	SANCTIONED()
static NomenclaturalStatusType pe	SUPERFLUOUS()

static NomenclaturalStatusType pe	UTIQUE_REJECTED_PROP()
static NomenclaturalStatusType pe	UTIQUE_REJECTED()

Methods inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[compareTo](#), [decreaseIndex](#), [equals](#), [incrementIndex](#), [isHigher](#), [isLower](#), [setVocabulary](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Methods inherited from interface [java.lang.Comparable](#)

[compareTo](#)

Constructors

(continued from last page)

NomenclaturalStatusType

```
public NomenclaturalStatusType()
```

NomenclaturalStatusType

```
public NomenclaturalStatusType(java.lang.String term,  
                               java.lang.String label)
```

Methods

isInvalidType

```
public boolean isInvalidType()
```

isLegitimateType

```
public boolean isLegitimateType()
```

isIllegitimateType

```
public boolean isIllegitimateType()
```

AMBIGUOUS

```
public final static NomenclaturalStatusType AMBIGUOUS()
```

DOUBTFUL

```
public final static NomenclaturalStatusType DOUBTFUL()
```

CONFUSUM

```
public final static NomenclaturalStatusType CONFUSUM()
```

ILLEGITIMATE

```
public final static NomenclaturalStatusType ILLEGITIMATE()
```

SUPERFLUOUS

public final static [NomenclaturalStatusType](#) SUPERFLUOUS()

REJECTED

public final static [NomenclaturalStatusType](#) REJECTED()

UTIQUE_REJECTED

public final static [NomenclaturalStatusType](#) UTIQUE_REJECTED()

CONSERVED_PROP

public final static [NomenclaturalStatusType](#) CONSERVED_PROP()

ORTHOGRAPHY_CONSERVED_PROP

public final static [NomenclaturalStatusType](#) ORTHOGRAPHY_CONSERVED_PROP()

LEGITIMATE

public final static [NomenclaturalStatusType](#) LEGITIMATE()

ALTERNATIVE

public final static [NomenclaturalStatusType](#) ALTERNATIVE()

NOVUM

public final static [NomenclaturalStatusType](#) NOVUM()

UTIQUE_REJECTED_PROP

public final static [NomenclaturalStatusType](#) UTIQUE_REJECTED_PROP()

ORTHOGRAPHY_CONSERVED

public final static [NomenclaturalStatusType](#) ORTHOGRAPHY_CONSERVED()

(continued from last page)

REJECTED_PROP

```
public final static NomenclaturalStatusType REJECTED_PROP()
```

CONSERVED

```
public final static NomenclaturalStatusType CONSERVED()
```

SANCTIONED

```
public final static NomenclaturalStatusType SANCTIONED()
```

INVALID

```
public final static NomenclaturalStatusType INVALID()
```

NUDUM

```
public final static NomenclaturalStatusType NUDUM()
```

COMBINATION_INVALID

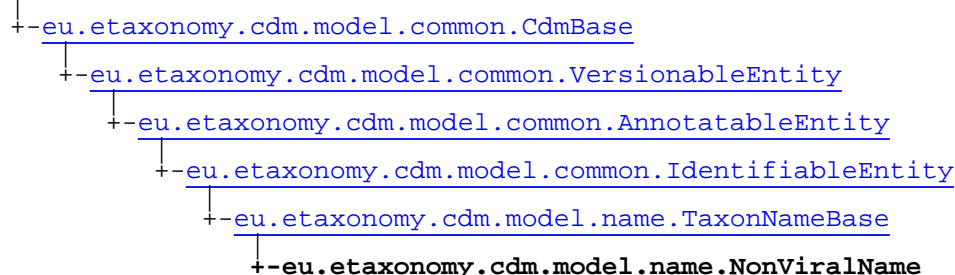
```
public final static NomenclaturalStatusType COMBINATION_INVALID()
```

PROVISIONAL

```
public final static NomenclaturalStatusType PROVISIONAL()
```

eu.etaxonomy.cdm.model.name Class NonViralName

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IReferencedEntity](#)

Direct Known Subclasses:

[BacterialName](#), [BotanicalName](#), [ZoologicalName](#)

```
public class NonViralName
extends TaxonNameBase
```

Taxon name class for all non viral taxa. Parentetical authorship is derived from basionym relationship.

Fields inherited from class [eu.etaxonomy.cdm.model.name.TaxonNameBase](#)

[cacheStrategy](#), [nameParser](#), [nameTypeDesignations](#), [protectedNameCache](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

protected	NonViralName ()
public	NonViralName (Rank rank)
public	NonViralName (Rank rank, java.lang.String genusOrUninomial, java.lang.String specificEpithet, java.lang.String infraSpecificEpithet, Agent combinationAuthorTeam, INomenclaturalReference nomenclaturalReference, java.lang.String nomenclMicroRef)

Method Summary

java.lang.String	generateTitle ()
java.lang.String	getAuthorshipCache () returns concatenated und formatted authorteams including basionym and combination authors

Agent	getBasionymAuthorTeam()
Agent	getCombinationAuthorTeam()
Agent	getExBasionymAuthorTeam()
Agent	getExCombinationAuthorTeam()
java.lang.String	getGenusOrUninomial()
java.lang.String	getInfraGenericEpithet()
java.lang.String	getInfraSpecificEpithet()
java.lang.String	getSpecificEpithet()
boolean	isCodeCompliant()
void	setAuthorshipCache (java.lang.String authorshipCache)
void	setBasionymAuthorTeam (Agent basionymAuthorTeam)
void	setCombinationAuthorTeam (Agent combinationAuthorTeam)
void	setExBasionymAuthorTeam (Agent exBasionymAuthorTeam)
void	setExCombinationAuthorTeam (Agent exCombinationAuthorTeam)
void	setGenusOrUninomial (java.lang.String genusOrUninomial)
void	setInfraGenericEpithet (java.lang.String infraGenericEpithet)
void	setInfraSpecificEpithet (java.lang.String infraSpecificEpithet)
void	setSpecificEpithet (java.lang.String specificEpithet)

Methods inherited from class [eu.etaxonomy.cdm.model.name.TaxonNameBase](#)

[addNameRelationship](#), [addRelationshipFromName](#), [addRelationshipToName](#), [addStatus](#),
[addTypeDesignation](#), [addTypeDesignation](#), [generateNameCache](#), [getAppendedPhrase](#),
[getBasionym](#), [getCacheStrategy](#), [getCitation](#), [getCitationString](#), [getHasProblem](#),
[getHomotypicalGroup](#), [getNameCache](#), [getNameRelations](#), [getNameTypeDesignations](#),
[getNomenclaturalMicroReference](#), [getNomenclaturalReference](#), [getProblems](#), [getRank](#),
[getRelationsFromThisName](#), [getRelationsToThisName](#), [getSpecimenTypeDesignations](#),
[getStatus](#), [getSynonyms](#), [getTaxa](#), [getYear](#), [isCodeCompliant](#), [isGenus](#), [isInfraGeneric](#),
[isInfraSpecific](#), [isSpecies](#), [isSupraGeneric](#), [isSupraGeneric](#), [removeNameRelationship](#),
[removeStatus](#), [removeTypeDesignation](#), [removeTypeDesignation](#), [setAppendedPhrase](#),
[setBasionym](#), [setBasionym](#), [setCacheStrategy](#), [setHasProblem](#), [setHomotypicalGroup](#),
[setNameCache](#), [setNameTypeDesignations](#), [setNomenclaturalMicroReference](#),
[setNomenclaturalReference](#), [setRank](#), [setStatus](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Constructors

NonViralName

```
protected NonViralName()
```

NonViralName

```
public NonViralName(Rank rank)
```

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NonViralName

```
public NonViralName(Rank rank,  
                   java.lang.String genusOrUninomial,  
                   java.lang.String specificEpithet,  
                   java.lang.String infraSpecificEpithet,  
                   Agent combinationAuthorTeam,  
                   INomenclaturalReference nomenclaturalReference,  
                   java.lang.String nomenclMicroRef)
```

Methods

getCombinationAuthorTeam

```
public Agent getCombinationAuthorTeam()
```

setCombinationAuthorTeam

```
public void setCombinationAuthorTeam(Agent combinationAuthorTeam)
```

getExCombinationAuthorTeam

```
public Agent getExCombinationAuthorTeam()
```

setExCombinationAuthorTeam

```
public void setExCombinationAuthorTeam(Agent exCombinationAuthorTeam)
```

getBasionymAuthorTeam

```
public Agent getBasionymAuthorTeam()
```

setBasionymAuthorTeam

```
public void setBasionymAuthorTeam(Agent basionymAuthorTeam)
```

getExBasionymAuthorTeam

```
public Agent getExBasionymAuthorTeam()
```

setExBasionymAuthorTeam

```
public void setExBasionymAuthorTeam(Agent exBasionymAuthorTeam)
```

(continued from last page)

getGenusOrUninomial

```
public java.lang.String getGenusOrUninomial()
```

setGenusOrUninomial

```
public void setGenusOrUninomial(java.lang.String genusOrUninomial)
```

getInfraGenericEpithet

```
public java.lang.String getInfraGenericEpithet()
```

setInfraGenericEpithet

```
public void setInfraGenericEpithet(java.lang.String infraGenericEpithet)
```

Parameters:

infraGenericEpithet - infraGenericEpithet

getSpecificEpithet

```
public java.lang.String getSpecificEpithet()
```

setSpecificEpithet

```
public void setSpecificEpithet(java.lang.String specificEpithet)
```

Parameters:

specificEpithet - specificEpithet

getInfraSpecificEpithet

```
public java.lang.String getInfraSpecificEpithet()
```

setInfraSpecificEpithet

```
public void setInfraSpecificEpithet(java.lang.String infraSpecificEpithet)
```

Parameters:

infraSpecificEpithet - infraSpecificEpithet

generateTitle

```
public java.lang.String generateTitle()
```

getAuthorshipCache

```
public java.lang.String getAuthorshipCache()
```

returns concatenated und formated authorteams including basionym and combination authors

setAuthorshipCache

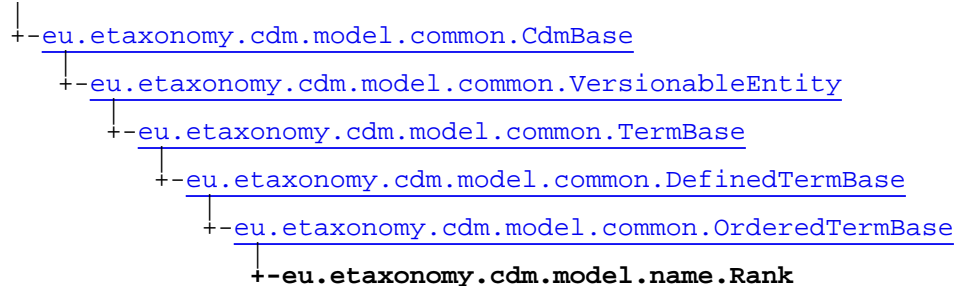
```
public void setAuthorshipCache(java.lang.String authorshipCache)
```

isCodeCompliant

```
public boolean isCodeCompliant()
```

eu.etaxonomy.cdm.model.name Class Rank

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#), java.lang.Comparable

public class **Rank**
extends [OrderedTermBase](#)

<http://rs.tdwg.org/ontology/voc/TaxonRank#TaxonRankTerm>

Fields inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[orderIndex](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	Rank()
public	Rank (java.lang.String term, java.lang.String label)

Method Summary

static Rank	BIOVARIETY ()
static Rank	CANDIDATE ()
static Rank	CLASS ()
static Rank	CONVAR ()
static Rank	CULTIVAR ()
static Rank	CULTIVARGROUP ()

static Rank	DENOMINATIONCLASS()
static Rank	DIVISION()
static Rank	DOMAIN()
static Rank	EMPIRE()
static Rank	FAMILY()
static Rank	FORM()
static Rank	GENUS()
java.lang.String	getAbbreviation()
static Rank	getRankByAbbreviation (java.lang.String abbrev) TODO preliminary implementation for BotanicalNameParser * not yet complete
static Rank	getRankByName (java.lang.String rankName) TODO preliminary implementation for BotanicalNameParser not yet complete
static Rank	getRankByNameOrAbbreviation (java.lang.String strRank) NOT YET COMPLETE !!
static Rank	GRAFTCHIMAERA()
static Rank	GREX()
static Rank	INFRACLASS()
static Rank	INFRADIVISION()
static Rank	INFRAFAMILY()
static Rank	INFRAGENERICTAXON()
static Rank	INFRAGENUS()
static Rank	INFRAKINGDOM()
static Rank	INFRAORDER()
static Rank	INFRAPHYLUM()
static Rank	INFRASPECIES()
static Rank	INFRASPECIFICTAXON()

static Rank	INFRATRIBE()
boolean	isGenus() True, if this Rank equals GENUS, else false.
boolean	isInfraGeneric() True, if this Rank is lower than GENUS and higher than SPECIES, else false.
boolean	isInfraSpecific() True, if this Rank is lower than SPECIES, else false.
boolean	isSpecies() True, if this Rank equals SPECIES, else false.
boolean	isSupraGeneric() True, if this Rank is higher than GENUS, else false.
static Rank	KINGDOM()
static Rank	ORDER()
static Rank	PATHOVARIETY()
static Rank	PHYLUM()
static Rank	SECTION()
static Rank	SERIES()
static Rank	SPECIALFORM()
static Rank	SPECIES()
static Rank	SPECIESAGGREGATE()
static Rank	SUBCLASS()
static Rank	SUBDIVISION()
static Rank	SUBFAMILY()
static Rank	SUBFORM()
static Rank	SUBGENUS()
static Rank	SUBKINGDOM()
static Rank	SUBORDER()
static Rank	SUBPHYLUM()

static Rank	SUBSECTION()
static Rank	SUBSERIES()
static Rank	SUBSPECIES()
static Rank	SUBSPECIFICAGGREGATE()
static Rank	SUBSUBFORM()
static Rank	SUBSUBVARIETY()
static Rank	SUBTRIBE()
static Rank	SUBVARIETY()
static Rank	SUPERCLASS()
static Rank	SUPERDIVISION()
static Rank	SUPERFAMILY()
static Rank	SUPERKINGDOM()
static Rank	SUPERORDER()
static Rank	SUPERPHYLUM()
static Rank	SUPERTRIBE()
static Rank	SUPRAGENERICTAXON()
static Rank	TRIBE()
static Rank	VARIETY()

Methods inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[compareTo](#), [decreaseIndex](#), [equals](#), [incrementIndex](#), [isHigher](#), [isLower](#), [setVocabulary](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Methods inherited from interface [java.lang.Comparable](#)

[compareTo](#)

Constructors

Rank

```
public Rank()
```

Rank

```
public Rank(java.lang.String term,  
            java.lang.String label)
```

Methods

EMPIRE

```
public final static Rank EMPIRE()
```

(continued from last page)

DOMAIN

```
public final static Rank DOMAIN()
```

SUPERKINGDOM

```
public final static Rank SUPERKINGDOM()
```

KINGDOM

```
public final static Rank KINGDOM()
```

SUBKINGDOM

```
public final static Rank SUBKINGDOM()
```

INFRAKINGDOM

```
public final static Rank INFRAKINGDOM()
```

SUPERPHYLUM

```
public final static Rank SUPERPHYLUM()
```

PHYLUM

```
public final static Rank PHYLUM()
```

SUBPHYLUM

```
public final static Rank SUBPHYLUM()
```

INFRAPHYLUM

```
public final static Rank INFRAPHYLUM()
```

SUPERDIVISION

```
public final static Rank SUPERDIVISION()
```

(continued from last page)

DIVISION

```
public final static Rank DIVISION()
```

SUBDIVISION

```
public final static Rank SUBDIVISION()
```

INFRADIVISION

```
public final static Rank INFRADIVISION()
```

SUPERCLASS

```
public final static Rank SUPERCLASS()
```

CLASS

```
public final static Rank CLASS()
```

SUBCLASS

```
public final static Rank SUBCLASS()
```

INFRACLASS

```
public final static Rank INFRACLASS()
```

SUPERORDER

```
public final static Rank SUPERORDER()
```

ORDER

```
public final static Rank ORDER()
```

(continued from last page)

SUBORDER

```
public final static Rank SUBORDER()
```

INFRAORDER

```
public final static Rank INFRAORDER()
```

SUPERFAMILY

```
public final static Rank SUPERFAMILY()
```

FAMILY

```
public final static Rank FAMILY()
```

SUBFAMILY

```
public final static Rank SUBFAMILY()
```

INFRAFAMILY

```
public final static Rank INFRAFAMILY()
```

SUPERTRIBE

```
public final static Rank SUPERTRIBE()
```

TRIBE

```
public final static Rank TRIBE()
```

SUBTRIBE

```
public final static Rank SUBTRIBE()
```

INFRA TRIBE

```
public final static Rank INFRA TRIBE()
```

(continued from last page)

SUPRAGENERICTAXON

```
public final static Rank SUPRAGENERICTAXON()
```

GENUS

```
public final static Rank GENUS()
```

SUBGENUS

```
public final static Rank SUBGENUS()
```

INFRAGENUS

```
public final static Rank INFRAGENUS()
```

SECTION

```
public final static Rank SECTION()
```

SUBSECTION

```
public final static Rank SUBSECTION()
```

SERIES

```
public final static Rank SERIES()
```

SUBSERIES

```
public final static Rank SUBSERIES()
```

SPECIESAGGREGATE

```
public final static Rank SPECIESAGGREGATE()
```

(continued from last page)

INFRAGENERICTAXON

```
public final static Rank INFRAGENERICTAXON()
```

SPECIES

```
public final static Rank SPECIES()
```

SUBSPECIFICAGGREGATE

```
public final static Rank SUBSPECIFICAGGREGATE()
```

SUBSPECIES

```
public final static Rank SUBSPECIES()
```

INFRASPECIES

```
public final static Rank INFRASPECIES()
```

VARIETY

```
public final static Rank VARIETY()
```

BIOVARIETY

```
public final static Rank BIOVARIETY()
```

PATHOVARIETY

```
public final static Rank PATHOVARIETY()
```

SUBVARIETY

```
public final static Rank SUBVARIETY()
```

SUBSUBVARIETY

```
public final static Rank SUBSUBVARIETY()
```

(continued from last page)

CONVAR

```
public final static Rank CONVAR()
```

FORM

```
public final static Rank FORM()
```

SPECIALFORM

```
public final static Rank SPECIALFORM()
```

SUBFORM

```
public final static Rank SUBFORM()
```

SUBSUBFORM

```
public final static Rank SUBSUBFORM()
```

INFRASPECIFICTAXON

```
public final static Rank INFRASPECIFICTAXON()
```

CANDIDATE

```
public final static Rank CANDIDATE()
```

DENOMINATIONCLASS

```
public final static Rank DENOMINATIONCLASS()
```

GREX

```
public final static Rank GREX()
```

(continued from last page)

GRAFTCHIMAERA

```
public final static Rank GRAFTCHIMAERA()
```

CULTIVARGROUP

```
public final static Rank CULTIVARGROUP()
```

CULTIVAR

```
public final static Rank CULTIVAR()
```

isSupraGeneric

```
public boolean isSupraGeneric()
```

True, if this Rank is higher than GENUS, else false.

Returns:

isGenus

```
public boolean isGenus()
```

True, if this Rank equals GENUS, else false.

Returns:

isInfraGeneric

```
public boolean isInfraGeneric()
```

True, if this Rank is lower than GENUS and higher than SPECIES, else false.

Returns:

isSpecies

```
public boolean isSpecies()
```

True, if this Rank equals SPECIES, else false.

Returns:

isInfraSpecific

```
public boolean isInfraSpecific()
```

(continued from last page)

True, if this Rank is lower than SPECIES, else false.

Returns:

getRankByNameOrAbbreviation

```
public static Rank getRankByNameOrAbbreviation(java.lang.String strRank)
    throws eu.etaxonomy.cdm.strategy.exceptions.UnknownRankException
```

NOT YET COMPLETE !!

Parameters:

strRank

Returns:

Rank

Throws:

UnknownRankException

getRankByAbbreviation

```
public static Rank getRankByAbbreviation(java.lang.String abbrev)
    throws eu.etaxonomy.cdm.strategy.exceptions.UnknownRankException
```

TODO preliminary implementation for BotanicalNameParser * not yet complete

getRankByName

```
public static Rank getRankByName(java.lang.String rankName)
    throws eu.etaxonomy.cdm.strategy.exceptions.UnknownRankException
```

TODO preliminary implementation for BotanicalNameParser not yet complete

getAbbreviation

```
public java.lang.String getAbbreviation()
```

eu.etaxonomy.cdm.model.name Class SpecimenTypeDesignation

```

java.lang.Object
  |
  +- eu.etaxonomy.cdm.model.common.CdmBase
      |
      +- eu.etaxonomy.cdm.model.common.VersionableEntity
          |
          +- eu.etaxonomy.cdm.model.common.AnnotatableEntity
              |
              +- eu.etaxonomy.cdm.model.common.ReferencedEntityBase
                  |
                  +- eu.etaxonomy.cdm.model.name.SpecimenTypeDesignation
  
```

All Implemented Interfaces:

java.io.Serializable, [IReferencedEntity](#)

```

public class SpecimenTypeDesignation
extends ReferencedEntityBase
  
```

{only for typified names which have the "species" rank or below}

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	SpecimenTypeDesignation (HomotypicalGroup homotypicalGroup, DerivedUnit specimen, TypeDesignationStatus status, ReferenceBase citation, java.lang.String citationMicroReference, java.lang.String originalNameString)
--------	--

Method Summary

HomotypicalGroup	getHomotypicalGroup ()
----------------------------------	--

DerivedUnit	getTypeSpecimen ()
-----------------------------	------------------------------------

TypeDesignationStatus	getTypeStatus ()
---------------------------------------	----------------------------------

void	setHomotypicalGroup (HomotypicalGroup newHomotypicalGroup)
------	---

void	setTypeSpecimen (DerivedUnit typeSpecimen)
------	---

void	setTypeStatus (TypeDesignationStatus typeStatus)
------	---

Methods inherited from class [eu.etaxonomy.cdm.model.common.ReferencedEntityBase](#)

[getCitation](#), [getCitationMicroReference](#), [getOriginalNameString](#), [setCitation](#), [setCitationMicroReference](#), [setOriginalNameString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Constructors

SpecimenTypeDesignation

```
public SpecimenTypeDesignation(HomotypicalGroup homotypicalGroup,
                               DerivedUnit specimen,
                               TypeDesignationStatus status,
                               ReferenceBase citation,
                               java.lang.String citationMicroReference,
                               java.lang.String originalNameString)
```

Methods

getHomotypicalGroup

```
public HomotypicalGroup getHomotypicalGroup()
```

setHomotypicalGroup

```
public void setHomotypicalGroup(HomotypicalGroup newHomotypicalGroup)
```

getTypeSpecimen

```
public DerivedUnit getTypeSpecimen()
```

(continued from last page)

setTypeSpecimen

```
public void setTypeSpecimen(DerivedUnit typeSpecimen)
```

getTypeStatus

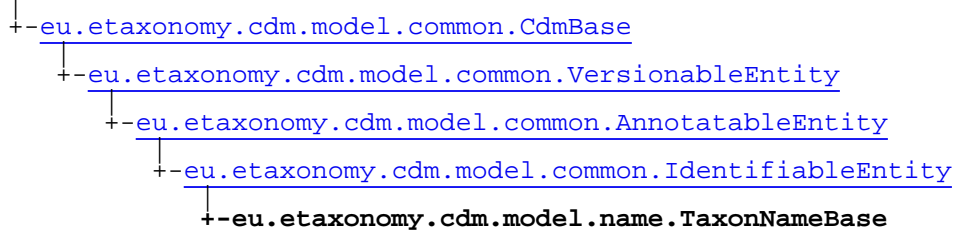
```
public TypeDesignationStatus getTypeStatus()
```

setStatus

```
public void setStatus(TypeDesignationStatus typeStatus)
```

eu.etaxonomy.cdm.model.name Class TaxonNameBase

java.lang.Object



All Implemented Interfaces:

[IReferencedEntity](#), java.io.Serializable, [IOriginalSource](#)

Direct Known Subclasses:

[NonViralName](#), [ViralName](#)

public abstract class **TaxonNameBase**

extends [IdentifiableEntity](#)

implements [IOriginalSource](#), java.io.Serializable, [IReferencedEntity](#)

The upmost (abstract) class for scientific taxon names regardless of the any particular nomenclatural code. The scientific name including author strings and maybe year is stored in `IdentifiableEntity.titleCache`

Field Summary

protected	cacheStrategy
protected static	nameParser
protected	nameTypeDesignations
protected	protectedNameCache

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	TaxonNameBase ()
public	TaxonNameBase (Rank rank)

Method Summary

void	addNameRelationship (NameRelationship rel)
------	---

void	addRelationshipFromName (TaxonNameBase fromName, NameRelationshipType type, java.lang.String ruleConsidered)
void	addRelationshipToName (TaxonNameBase toName, NameRelationshipType type, java.lang.String ruleConsidered) Add a name relationship to both names involved
void	addStatus (NomenclaturalStatus status)
void	addTypeDesignation (Specimen typeSpecimen, TypeDesignationStatus status, ReferenceBase citation, java.lang.String citationMicroReference, java.lang.String originalNameString)
void	addTypeDesignation (TaxonNameBase typeSpecies, ReferenceBase citation, java.lang.String citationMicroReference, java.lang.String originalNameString, boolean isRejectedType, boolean isConservedType)
java.lang.String	generateNameCache ()
java.lang.String	getAppendedPhrase ()
TaxonNameBase	getBasionym ()
eu.etaxonomy.cdm.strategy.INameCacheStrategy	getCacheStrategy ()
StrictReferenceBase	getCitation ()
java.lang.String	getCitationString ()
boolean	getHasProblem ()
HomotypicalGroup	getHomotypicalGroup ()
java.lang.String	getNameCache ()
java.util.Set	getNameRelations ()
java.util.Set	getNameTypeDesignations ()
java.lang.String	getNomenclaturalMicroReference ()
ReferenceBase	getNomenclaturalReference ()
java.lang.String[]	getProblems ()
Rank	getRank ()
java.util.Set	getRelationsFromThisName ()
java.util.Set	getRelationsToThisName ()

java.util.Set	getSpecimenTypeDesignations()
java.util.Set	getStatus()
java.util.Set	getSynonyms() Return a set of synonyms that use this name
java.util.Set	getTaxa() Return a set of taxa that use this name
java.lang.String	getYear() returns year of according nomenclatural reference, null if nomenclatural reference does not exist
abstract boolean	isCodeCompliant()
boolean	isGenus()
boolean	isInfraGeneric()
boolean	isInfraSpecific()
boolean	isSpecies()
boolean	isSupraGeneric()
boolean	isSupraGeneric(Rank rank)
void	removeNameRelationship(NameRelationship nameRelation)
void	removeStatus(NomenclaturalStatus status)
void	removeTypeDesignation(NameTypeDesignation typeDesignation)
void	removeTypeDesignation(SpecimenTypeDesignation typeDesignation)
void	setAppendedPhrase(java.lang.String appendedPhrase)
void	setBasionym(TaxonNameBase basionym)
void	setBasionym(TaxonNameBase basionym, java.lang.String ruleConsidered)
void	setCacheStrategy(eu.etaxonomy.cdm.strategy.INameCacheStrategy cacheStrategy)
void	setHasProblem(boolean hasProblem)
void	setHomotypicalGroup(HomotypicalGroup newHomotypicalGroup)
void	setNameCache(java.lang.String nameCache)

void	setNameTypeDesignations (java.util.Set nameTypeDesignations)
void	setNomenclaturalMicroReference (java.lang.String nomenclaturalMicroReference)
void	setNomenclaturalReference (INomenclaturalReference nomenclaturalReference)
void	setRank (Rank rank)
void	setStatus (java.util.Set status)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Fields

(continued from last page)

nameTypeDesignations

```
protected java.util.Set nameTypeDesignations
```

protectedNameCache

```
protected boolean protectedNameCache
```

cacheStrategy

```
protected eu.etaxonomy.cdm.strategy.INameCacheStrategy cacheStrategy
```

nameParser

```
protected static eu.etaxonomy.cdm.strategy.ITaxonNameParser nameParser
```

Constructors

TaxonNameBase

```
public TaxonNameBase()
```

TaxonNameBase

```
public TaxonNameBase(Rank rank)
```

Methods

generateNameCache

```
protected java.lang.String generateNameCache()
```

getNameCache

```
public java.lang.String getNameCache()
```

setNameCache

```
public void setNameCache(java.lang.String nameCache)
```

isCodeCompliant

```
public abstract boolean isCodeCompliant()
```

getNameRelations

```
public java.util.Set getNameRelations()
```

addRelationshipToName

```
public void addRelationshipToName(TaxonNameBase toName,  
    NameRelationshipType type,  
    java.lang.String ruleConsidered)
```

Add a name relationship to both names involved

Parameters:

rel

addRelationshipFromName

```
public void addRelationshipFromName(TaxonNameBase fromName,  
    NameRelationshipType type,  
    java.lang.String ruleConsidered)
```

addNameRelationship

```
protected void addNameRelationship(NameRelationship rel)
```

removeNameRelationship

```
public void removeNameRelationship(NameRelationship nameRelation)
```

getRelationsFromThisName

```
public java.util.Set getRelationsFromThisName()
```

getRelationsToThisName

```
public java.util.Set getRelationsToThisName()
```

(continued from last page)

getStatus

```
public java.util.Set getStatus()
```

setStatus

```
protected void setStatus(java.util.Set status)
```

addStatus

```
public void addStatus(NomenclaturalStatus status)
```

removeStatus

```
public void removeStatus(NomenclaturalStatus status)
```

getBasionym

```
public TaxonNameBase getBasionym()
```

setBasionym

```
public void setBasionym(TaxonNameBase basionym)
```

setBasionym

```
public void setBasionym(TaxonNameBase basionym,  
    java.lang.String ruleConsidered)
```

getCacheStrategy

```
public eu.etaxonomy.cdm.strategy.ICollectionStrategy getCacheStrategy()
```

setCacheStrategy

```
public void setCacheStrategy(eu.etaxonomy.cdm.strategy.ICollectionStrategy  
    cacheStrategy)
```

(continued from last page)

getRank

```
public Rank getRank()
```

setRank

```
public void setRank(Rank rank)
```

getNomenclaturalReference

```
public ReferenceBase getNomenclaturalReference()
```

setNomenclaturalReference

```
public void setNomenclaturalReference(INomenclaturalReference nomenclaturalReference)
```

getAppendedPhrase

```
public java.lang.String getAppendedPhrase()
```

setAppendedPhrase

```
public void setAppendedPhrase(java.lang.String appendedPhrase)
```

getNomenclaturalMicroReference

```
public java.lang.String getNomenclaturalMicroReference()
```

setNomenclaturalMicroReference

```
public void setNomenclaturalMicroReference(java.lang.String  
nomenclaturalMicroReference)
```

getHasProblem

```
public boolean getHasProblem()
```

setHasProblem

```
public void setHasProblem(boolean hasProblem)
```

(continued from last page)

getNameTypeDesignations

```
public java.util.Set getNameTypeDesignations()
```

setNameTypeDesignations

```
protected void setNameTypeDesignations(java.util.Set nameTypeDesignations)
```

addTypeDesignation

```
public void addTypeDesignation(TaxonNameBase typeSpecies,  
    ReferenceBase citation,  
    java.lang.String citationMicroReference,  
    java.lang.String originalNameString,  
    boolean isRejectedType,  
    boolean isConservedType)
```

addTypeDesignation

```
public void addTypeDesignation(Specimen typeSpecimen,  
    TypeDesignationStatus status,  
    ReferenceBase citation,  
    java.lang.String citationMicroReference,  
    java.lang.String originalNameString)
```

removeTypeDesignation

```
public void removeTypeDesignation(NameTypeDesignation typeDesignation)
```

removeTypeDesignation

```
public void removeTypeDesignation(SpecimenTypeDesignation typeDesignation)
```

getHomotypicalGroup

```
public HomotypicalGroup getHomotypicalGroup()
```

setHomotypicalGroup

```
public void setHomotypicalGroup(HomotypicalGroup newHomotypicalGroup)
```

getCitation

```
public StrictReferenceBase getCitation()
```

getCitationString

```
public java.lang.String getCitationString()
```

getProblems

```
public java.lang.String[] getProblems()
```

getYear

```
public java.lang.String getYear()
```

returns year of according nomenclatural reference, null if nomenclatural reference does not exist

getTaxa

```
public java.util.Set getTaxa()
```

Return a set of taxa that use this name

Returns:

getSynonyms

```
public java.util.Set getSynonyms()
```

Return a set of synonyms that use this name

Returns:

getSpecimenTypeDesignations

```
public java.util.Set getSpecimenTypeDesignations()
```

isSupraGeneric

```
public boolean isSupraGeneric()
```

isGenus

```
public boolean isGenus()
```

(continued from last page)

isInfraGeneric

```
public boolean isInfraGeneric()
```

isSpecies

```
public boolean isSpecies()
```

isInfraSpecific

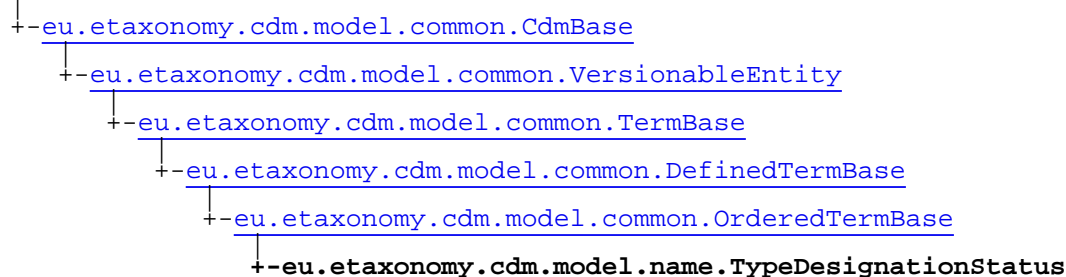
```
public boolean isInfraSpecific()
```

isSupraGeneric

```
public boolean isSupraGeneric(Rank rank)
```

eu.etaxonomy.cdm.model.name Class TypeDesignationStatus

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#), java.lang.Comparable

public class **TypeDesignationStatus**
extends [OrderedTermBase](#)

<http://rs.tdwg.org/ontology/voc/TaxonName#NomenculturalTypeTypeTerm>

Fields inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[orderIndex](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	TypeDesignationStatus ()
public	TypeDesignationStatus (java.lang.String term, java.lang.String label)

Method Summary

static TypeDesignationStatus	EPITYPE ()
static TypeDesignationStatus	HOLOTYPE ()
static TypeDesignationStatus	ICONOTYPE ()
static TypeDesignationStatus	ISOEPITYPE ()
static TypeDesignationStatus	ISOLECTOTYPE ()
static TypeDesignationStatus	ISONEOTYPE ()

static TypeDesignationStatus	ISOTYPE()
static TypeDesignationStatus	LECTOTYPE()
static TypeDesignationStatus	NEOTYPE()
static TypeDesignationStatus	PARALECTOTYPE()
static TypeDesignationStatus	PARANEOTYPE()
static TypeDesignationStatus	PARATYPE()
static TypeDesignationStatus	PHOTOTYPE()
static TypeDesignationStatus	SECOND_STEP_LLECTOTYPE()
static TypeDesignationStatus	SECOND_STEP_NEOTYPE()
static TypeDesignationStatus	SYNTYPE()

Methods inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[compareTo](#), [decreaseIndex](#), [equals](#), [incrementIndex](#), [isHigher](#), [isLower](#), [setVocabulary](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface `eu.etaxonomy.cdm.model.common.IDefTerm`

`getVocabulary`, `readCsvLine`, `setVocabulary`, `writeCsvLine`

Methods inherited from interface `java.lang.Comparable`

`compareTo`

Constructors

TypeDesignationStatus

```
public TypeDesignationStatus()
```

TypeDesignationStatus

```
public TypeDesignationStatus(java.lang.String term,  
                             java.lang.String label)
```

Methods

HOLOTYPE

```
public final static TypeDesignationStatus HOLOTYPE()
```

LECTOTYPE

```
public final static TypeDesignationStatus LECTOTYPE()
```

NEOTYPE

```
public final static TypeDesignationStatus NEOTYPE()
```

EPITYPE

```
public final static TypeDesignationStatus EPITYPE()
```

(continued from last page)

ISOLECTOTYPE

```
public final static TypeDesignationStatus ISOLECTOTYPE()
```

ISONEOTYPE

```
public final static TypeDesignationStatus ISONEOTYPE()
```

ISOTYPE

```
public final static TypeDesignationStatus ISOTYPE()
```

PARANEOTYPE

```
public final static TypeDesignationStatus PARANEOTYPE()
```

PARATYPE

```
public final static TypeDesignationStatus PARATYPE()
```

SECOND_STEP_LLECTOTYPE

```
public final static TypeDesignationStatus SECOND_STEP_LLECTOTYPE()
```

SECOND_STEP_NEOTYPE

```
public final static TypeDesignationStatus SECOND_STEP_NEOTYPE()
```

SYNTYPE

```
public final static TypeDesignationStatus SYNTYPE()
```

PARALECTOTYPE

```
public final static TypeDesignationStatus PARALECTOTYPE()
```

ISOEPITYPE

```
public final static TypeDesignationStatus ISOEPITYPE()
```

(continued from last page)

ICONOTYPE

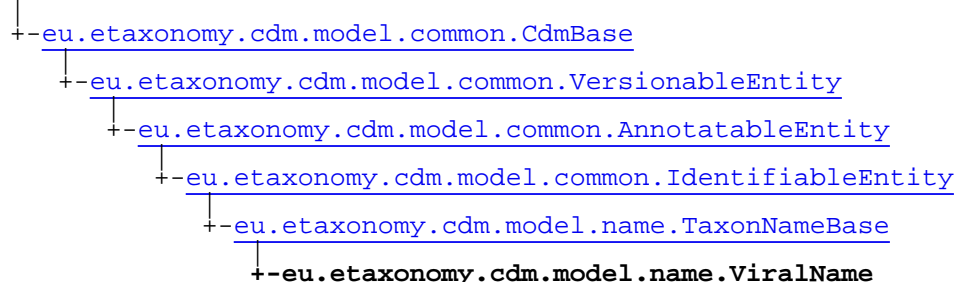
```
public final static TypeDesignationStatus ICONOTYPE()
```

PHOTOTYPE

```
public final static TypeDesignationStatus PHOTOTYPE()
```

eu.etaxonomy.cdm.model.name Class ViralName

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IReferencedEntity](#)

```
public class ViralName
extends TaxonNameBase
```

use name attribute for the entire virus name! examples see ICTVdb: http://www.ncbi.nlm.nih.gov/ICTVdb/Ictv/vn_indxA.htm

Fields inherited from class [eu.etaxonomy.cdm.model.name.TaxonNameBase](#)

[cacheStrategy](#), [nameParser](#), [nameTypeDesignations](#), [protectedNameCache](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	ViralName (Rank rank)
--------	--

Method Summary

java.lang.String	generateTitle ()
------------------	----------------------------------

java.lang.String	getAcronym ()
------------------	-------------------------------

boolean	isCodeCompliant ()
---------	------------------------------------

void	setAcronym (java.lang.String acronym)
------	---

Methods inherited from class [eu.etaxonomy.cdm.model.name.TaxonNameBase](#)

[addNameRelationship](#), [addRelationshipFromName](#), [addRelationshipToName](#), [addStatus](#), [addTypeDesignation](#), [addTypeDesignation](#), [generateNameCache](#), [getAppendedPhrase](#), [getBasionym](#), [getCacheStrategy](#), [getCitation](#), [getCitationString](#), [getHasProblem](#), [getHomotypicalGroup](#), [getNameCache](#), [getNameRelations](#), [getNameTypeDesignations](#), [getNomenclaturalMicroReference](#), [getNomenclaturalReference](#), [getProblems](#), [getRank](#), [getRelationsFromThisName](#), [getRelationsToThisName](#), [getSpecimenTypeDesignations](#), [getStatus](#), [getSynonyms](#), [getTaxa](#), [getYear](#), [isCodeCompliant](#), [isGenus](#), [isInfraGeneric](#), [isInfraSpecific](#), [isSpecies](#), [isSupraGeneric](#), [isSupraGeneric](#), [removeNameRelationship](#), [removeStatus](#), [removeTypeDesignation](#), [removeTypeDesignation](#), [setAppendedPhrase](#), [setBasionym](#), [setBasionym](#), [setCacheStrategy](#), [setHasProblem](#), [setHomotypicalGroup](#), [setNameCache](#), [setNameTypeDesignations](#), [setNomenclaturalMicroReference](#), [setNomenclaturalReference](#), [setRank](#), [setStatus](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Constructors

(continued from last page)

ViralName

public **ViralName**([Rank](#) rank)

Methods

getAcronym

public java.lang.String **getAcronym**()

setAcronym

public void **setAcronym**(java.lang.String acronym)

generateTitle

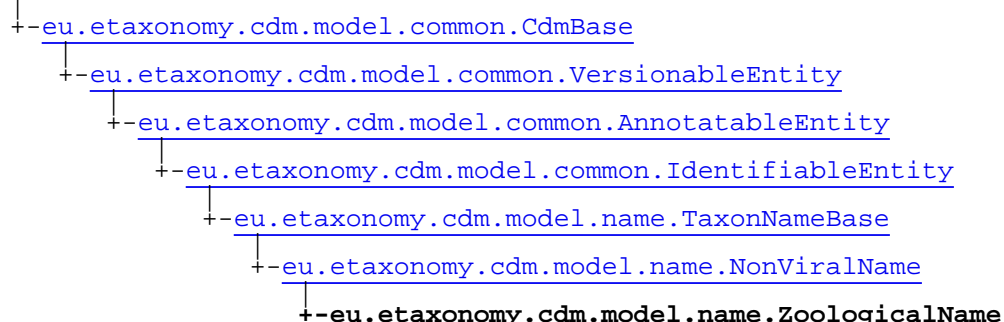
public java.lang.String **generateTitle**()

isCodeCompliant

public boolean **isCodeCompliant**()

eu.etaxonomy.cdm.model.name Class ZoologicalName

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IReferencedEntity](#)

public class **ZoologicalName**
extends [NonViralName](#)

Taxon name class for animals

Fields inherited from class [eu.etaxonomy.cdm.model.name.TaxonNameBase](#)

[cacheStrategy](#), [nameParser](#), [nameTypeDesignations](#), [protectedNameCache](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	ZoologicalName (Rank rank)
public	ZoologicalName (Rank rank, java.lang.String genusOrUninomial, java.lang.String specificEpithet, java.lang.String infraSpecificEpithet, Agent combinationAuthorTeam, INomenclaturalReference nomenclaturalReference, java.lang.String nomenclMicroRef)

Method Summary

java.lang.String	getBreed ()
java.lang.Integer	getOriginalPublicationYear ()
java.lang.Integer	getPublicationYear ()
void	setBreed (java.lang.String breed)

void	setOriginalPublicationYear (java.lang.Integer originalPublicationYear)
void	setPublicationYear (java.lang.Integer publicationYear)

Methods inherited from class [eu.etaxonomy.cdm.model.name.NonViralName](#)

[generateTitle](#), [getAuthorshipCache](#), [getBasionymAuthorTeam](#), [getCombinationAuthorTeam](#), [getExBasionymAuthorTeam](#), [getExCombinationAuthorTeam](#), [getGenusOrUninomial](#), [getInfraGenericEpithet](#), [getInfraSpecificEpithet](#), [getSpecificEpithet](#), [isCodeCompliant](#), [setAuthorshipCache](#), [setBasionymAuthorTeam](#), [setCombinationAuthorTeam](#), [setExBasionymAuthorTeam](#), [setExCombinationAuthorTeam](#), [setGenusOrUninomial](#), [setInfraGenericEpithet](#), [setInfraSpecificEpithet](#), [setSpecificEpithet](#)

Methods inherited from class [eu.etaxonomy.cdm.model.name.TaxonNameBase](#)

[addNameRelationship](#), [addRelationshipFromName](#), [addRelationshipToName](#), [addStatus](#), [addTypeDesignation](#), [addTypeDesignation](#), [generateNameCache](#), [getAppendedPhrase](#), [getBasionym](#), [getCacheStrategy](#), [getCitation](#), [getCitationString](#), [getHasProblem](#), [getHomotypicalGroup](#), [getNameCache](#), [getNameRelations](#), [getNameTypeDesignations](#), [getNomenclaturalMicroReference](#), [getNomenclaturalReference](#), [getProblems](#), [getRank](#), [getRelationsFromThisName](#), [getRelationsToThisName](#), [getSpecimenTypeDesignations](#), [getStatus](#), [getSynonyms](#), [getTaxa](#), [getYear](#), [isCodeCompliant](#), [isGenus](#), [isInfraGeneric](#), [isInfraSpecific](#), [isSpecies](#), [isSupraGeneric](#), [isSupraGeneric](#), [removeNameRelationship](#), [removeStatus](#), [removeTypeDesignation](#), [removeTypeDesignation](#), [setAppendedPhrase](#), [setBasionym](#), [setBasionym](#), [setCacheStrategy](#), [setHasProblem](#), [setHomotypicalGroup](#), [setNameCache](#), [setNameTypeDesignations](#), [setNomenclaturalMicroReference](#), [setNomenclaturalReference](#), [setRank](#), [setStatus](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

```
addSource, getSources, removeSource
```

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

```
getCitation
```

Constructors

ZoologicalName

```
public ZoologicalName(Rank rank)
```

ZoologicalName

```
public ZoologicalName(Rank rank,  
    java.lang.String genusOrUninomial,  
    java.lang.String specificEpithet,  
    java.lang.String infraSpecificEpithet,  
    Agent combinationAuthorTeam,  
    INomenclaturalReference nomenclaturalReference,  
    java.lang.String nomenclMicroRef)
```

Methods

getBreed

```
public java.lang.String getBreed()
```

setBreed

```
public void setBreed(java.lang.String breed)
```

getPublicationYear

```
public java.lang.Integer getPublicationYear()
```

setPublicationYear

```
public void setPublicationYear(java.lang.Integer publicationYear)
```

getOriginalPublicationYear

```
public java.lang.Integer getOriginalPublicationYear()
```

setOriginalPublicationYear

```
public void setOriginalPublicationYear(java.lang.Integer originalPublicationYear)
```

Package

eu.etaxonomy.cdm.model.occurrence

Package: "occurrence"

Provides classes for specimens, collections and field observations.

Related Documentation

- [TDWG Specimen LSID Ontology](#)
- [ABCD schema](#)

UML Diagrams

Occurrence

eu.etaxonomy.cdm.model.occurrence Class Collection

```

java.lang.Object
  |
  +-- eu.etaxonomy.cdm.model.common.CdmBase
        |
        +-- eu.etaxonomy.cdm.model.common.VersionableEntity
              |
              +-- eu.etaxonomy.cdm.model.common.AnnotatableEntity
                    |
                    +-- eu.etaxonomy.cdm.model.common.IdentifiableEntity
                          |
                          +-- eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity
                                |
                                +-- eu.etaxonomy.cdm.model.occurrence.Collection
  
```

All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

public class **Collection**
extends [IdentifiableMediaEntity](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	Collection()
--------	------------------------------

Method Summary

java.lang.String	generateTitle()
------------------	---------------------------------

java.lang.String	getCode()
------------------	---------------------------

java.lang.String	getCodeStandard()
------------------	-----------------------------------

Institution	getInstitute()
-----------------------------	--------------------------------

java.lang.String	getName()
------------------	---------------------------

Collection	getSuperCollection()
----------------------------	--------------------------------------

java.lang.String	getTownOrLocation()
------------------	-------------------------------------

void	setCode (java.lang.String code)
------	---

void	setCodeStandard (java.lang.String codeStandard)
------	---

void	setInstitute (Institution institute)
void	setName (java.lang.String name)
void	setSuperCollection (Collection superCollection)
void	setTownOrLocation (java.lang.String townOrLocation)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

(continued from last page)

Collection

```
public Collection()
```

Methods

getInstitute

```
public Institution getInstitute()
```

setInstitute

```
public void setInstitute(Institution institute)
```

Parameters:

institute - institute

getCode

```
public java.lang.String getCode()
```

setCode

```
public void setCode(java.lang.String code)
```

Parameters:

code - code

getCodeStandard

```
public java.lang.String getCodeStandard()
```

setCodeStandard

```
public void setCodeStandard(java.lang.String codeStandard)
```

Parameters:

codeStandard - codeStandard

getName

```
public java.lang.String getName()
```

(continued from last page)

setName

```
public void setName(java.lang.String name)
```

Parameters:

name - name

getTownOrLocation

```
public java.lang.String getTownOrLocation()
```

setTownOrLocation

```
public void setTownOrLocation(java.lang.String townOrLocation)
```

Parameters:

townOrLocation - townOrLocation

generateTitle

```
public java.lang.String generateTitle()
```

getSuperCollection

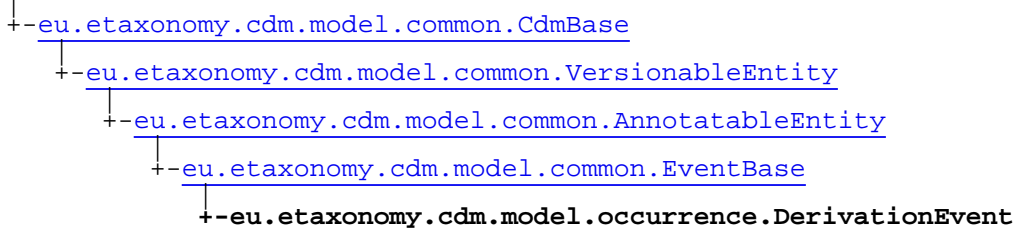
```
public Collection getSuperCollection()
```

setSuperCollection

```
public void setSuperCollection(Collection superCollection)
```

eu.etaxonomy.cdm.model.occurrence Class DerivationEvent

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IEvent](#)

```
public class DerivationEvent
extends EventBase
```

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	DerivationEvent()
--------	-----------------------------------

Method Summary

void	addDerivative (DerivedUnit derivative)
------	---

void	addOriginal (SpecimenOrObservationBase original)
------	---

java.util.Set	getDerivatives ()
---------------	-----------------------------------

java.util.Set	getOriginals ()
---------------	---------------------------------

DerivationEventType	getType ()
-------------------------------------	----------------------------

void	removeDerivative (DerivedUnit derivative)
------	--

void	removeOriginal (SpecimenOrObservationBase original)
------	--

void	setDerivatives (java.util.Set derivatives)
------	--

void	setOriginals (java.util.Set originals)
------	--

void	setType (DerivationEventType type)
------	---

Methods inherited from class [eu.etaxonomy.cdm.model.common.EventBase](#)

[getActor](#), [getDescription](#), [getTimeperiod](#), [setActor](#), [setDescription](#), [setTimeperiod](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#),
[removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#),
[getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#),
[firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#),
[firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#),
[removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#),
[setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`,
`wait`

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IEvent](#)

[getActor](#), [getTimeperiod](#), [setActor](#), [setTimeperiod](#)

Constructors

DerivationEvent

```
public DerivationEvent()
```

Methods

getOriginals

```
public java.util.Set getOriginals()
```

setOriginals

```
protected void setOriginals(java.util.Set originals)
```

(continued from last page)

addOriginal

```
public void addOriginal(SpecimenOrObservationBase original)
```

removeOriginal

```
public void removeOriginal(SpecimenOrObservationBase original)
```

getDerivatives

```
public java.util.Set getDerivatives()
```

setDerivatives

```
protected void setDerivatives(java.util.Set derivatives)
```

addDerivative

```
public void addDerivative(DerivedUnit derivative)
```

removeDerivative

```
public void removeDerivative(DerivedUnit derivative)
```

getType

```
public DerivationEventType getType()
```

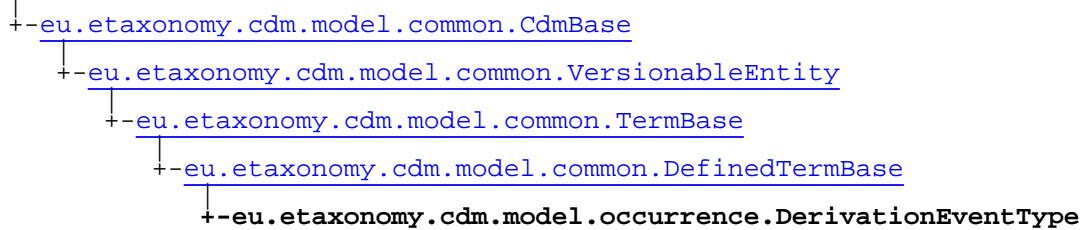
setType

```
public void setType(DerivationEventType type)
```

eu.etaxonomy.cdm.model.occurrence

Class DerivationEventType

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#)

public class **DerivationEventType**
 extends [DefinedTermBase](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	DerivationEventType()
public	DerivationEventType (java.lang.String term, java.lang.String label)

Method Summary

static DerivationEventType	DNA_EXTRACTION()
static DerivationEventType	DUPLICATE()
static DerivationEventType	GATHERING_IN_SITU()
static DerivationEventType	TISSUE_SAMPLING()

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Constructors

DerivationEventType

```
public DerivationEventType()
```

DerivationEventType

```
public DerivationEventType(java.lang.String term,
                           java.lang.String label)
```

Methods

DUPLICATE

```
public final static DerivationEventType DUPLICATE()
```

GATHERING_IN_SITU

```
public final static DerivationEventType GATHERING_IN_SITU()
```

TISSUE_SAMPLING

public final static [DerivationEventType](#) **TISSUE_SAMPLING()**

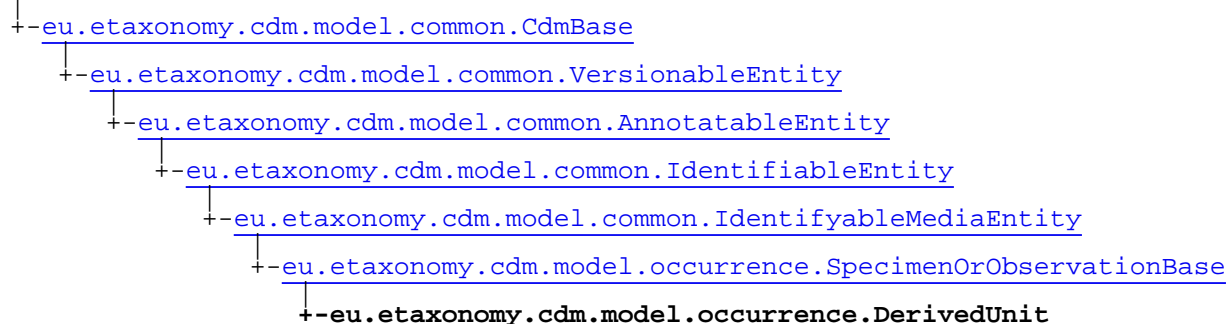
DNA_EXTRACTION

public final static [DerivationEventType](#) **DNA_EXTRACTION()**

eu.etaxonomy.cdm.model.occurrence

Class DerivedUnit

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

Direct Known Subclasses:

[LivingBeing](#), [Observation](#), [Specimen](#)

public abstract class **DerivedUnit**
 extends [SpecimenOrObservationBase](#)

<http://www.bgbm.org/biodivinf/docs/CollectionModel/ReprintTNR.pdf> <http://www.bgbm.org/biodivinf/docs/CollectionModel/>

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	DerivedUnit ()
public	DerivedUnit (FieldObservation fieldObservation) create new unit derived from an existing field observation
public	DerivedUnit (GatheringEvent gatheringEvent) create new unit derived from an existing gathering event, thereby creating a new empty field observation

Method Summary

java.lang.String	getCatalogNumber ()
Collection	getCollection ()
DerivationEvent	getDerivedFrom ()
GatheringEvent	getGatheringEvent ()

java.util.Set	getOriginals()
TaxonNameBase	getStoredUnder()
void	setCatalogNumber (java.lang.String catalogNumber)
void	setCollection (Collection collection)
void	setDerivedFrom (DerivationEvent derivedFrom)
void	setStoredUnder (TaxonNameBase storedUnder)

Methods inherited from class [eu.etaxonomy.cdm.model.occurrence.SpecimenOrObservationBase](#)

[addDefinition](#), [addDefinition](#), [addDerivationEvent](#), [addDetermination](#), [generateTitle](#), [getDefinition](#), [getDerivationEvents](#), [getDeterminations](#), [getGatheringEvent](#), [getIndividualCount](#), [getLifeStage](#), [getOriginalUnit](#), [getSex](#), [removeDefinition](#), [removeDerivationEvent](#), [removeDetermination](#), [setDerivationEvents](#), [setDeterminations](#), [setIndividualCount](#), [setLifeStage](#), [setSex](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

DerivedUnit

```
public DerivedUnit()
```

DerivedUnit

```
public DerivedUnit(FieldObservation fieldObservation)
```

create new unit derived from an existing field observation

Parameters:

`fieldObservation` - existing field observation from where this unit is derived

DerivedUnit

```
public DerivedUnit(GatheringEvent gatheringEvent)
```

create new unit derived from an existing gathering event, thereby creating a new empty field observation

Parameters:

`gatheringEvent` - the gathering event this unit was collected at

Methods

getDerivedFrom

```
public DerivationEvent getDerivedFrom()
```

setDerivedFrom

```
public void setDerivedFrom(DerivationEvent derivedFrom)
```

getOriginals

```
public java.util.Set getOriginals()
```

(continued from last page)

getGatheringEvent

```
public GatheringEvent getGatheringEvent()
```

getCollection

```
public Collection getCollection()
```

setCollection

```
public void setCollection(Collection collection)
```

getCatalogNumber

```
public java.lang.String getCatalogNumber()
```

setCatalogNumber

```
public void setCatalogNumber(java.lang.String catalogNumber)
```

getStoredUnder

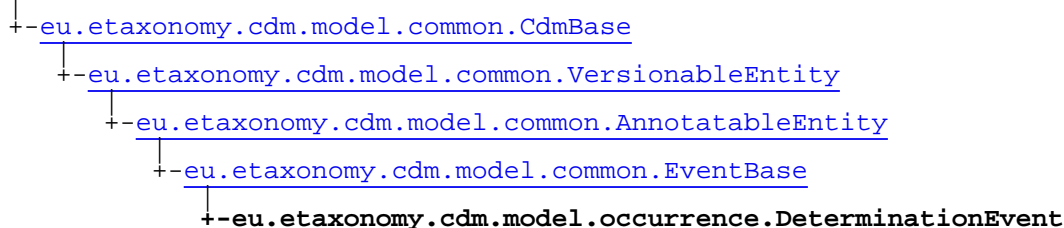
```
public TaxonNameBase getStoredUnder()
```

setStoredUnder

```
public void setStoredUnder(TaxonNameBase storedUnder)
```

eu.etaxonomy.cdm.model.occurrence Class DeterminationEvent

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IEvent](#)

public class **DeterminationEvent**
extends [EventBase](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	DeterminationEvent()
--------	--------------------------------------

Method Summary

Agent	getDeterminer()
java.util.Calendar	getIdentificationDate()
SpecimenOrObservationBase	getIdentifiedUnit()
DeterminationModifier	getModifier()
Taxon	getTaxon()
void	setDeterminer(Agent determiner)
void	setIdentificationDate(java.util.Calendar identificationDate)
void	setIdentifiedUnit(SpecimenOrObservationBase identifiedUnit)
void	setModifier(DeterminationModifier modifier)
void	setTaxon(Taxon taxon)

Methods inherited from class [eu.etaxonomy.cdm.model.common.EventBase](#)

[getActor](#), [getDescription](#), [getTimeperiod](#), [setActor](#), [setDescription](#), [setTimeperiod](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#),
[removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#),
[getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#),
[firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#),
[firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#),
[removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#),
[setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`,
`wait`

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IEvent](#)

[getActor](#), [getTimeperiod](#), [setActor](#), [setTimeperiod](#)

Constructors

DeterminationEvent

```
public DeterminationEvent()
```

Methods

getModifier

```
public DeterminationModifier getModifier()
```

setModifier

```
public void setModifier(DeterminationModifier modifier)
```

(continued from last page)

getTaxon

```
public Taxon getTaxon()
```

setTaxon

```
public void setTaxon(Taxon taxon)
```

Parameters:

taxon - taxon

getIdentificationDate

```
public java.util.Calendar getIdentificationDate()
```

setIdentificationDate

```
public void setIdentificationDate(java.util.Calendar identificationDate)
```

Parameters:

identificationDate - identificationDate

getDeterminer

```
public Agent getDeterminer()
```

setDeterminer

```
public void setDeterminer(Agent determiner)
```

getIdentifiedUnit

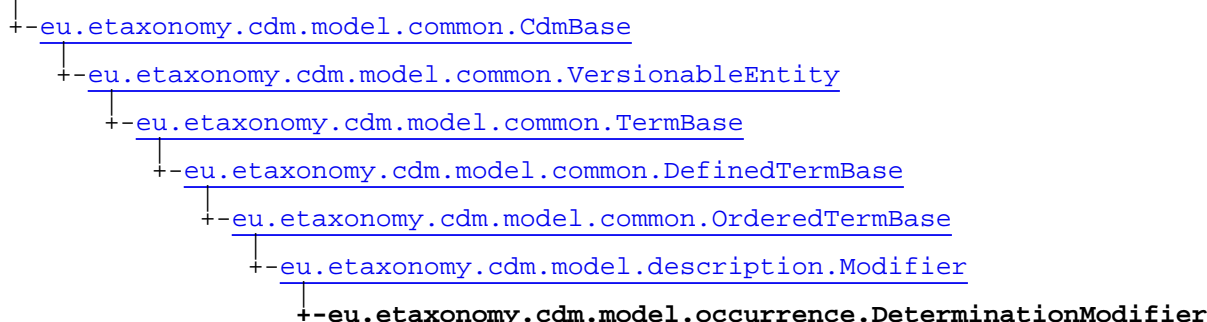
```
public SpecimenOrObservationBase getIdentifiedUnit()
```

setIdentifiedUnit

```
public void setIdentifiedUnit(SpecimenOrObservationBase identifiedUnit)
```

eu.etaxonomy.cdm.model.occurrence Class DeterminationModifier

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#), java.lang.Comparable

public class **DeterminationModifier**
extends [Modifier](#)

modifier for a determination. can be cf. det. rev. conf. for example

Fields inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[orderIndex](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	DeterminationModifier ()
public	DeterminationModifier (java.lang.String term, java.lang.String label)

Methods inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[compareTo](#), [decreaseIndex](#), [equals](#), [incrementIndex](#), [isHigher](#), [isLower](#), [setVocabulary](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Methods inherited from interface [java.lang.Comparable](#)

[compareTo](#)

Constructors

DeterminationModifier

```
public DeterminationModifier()
```

DeterminationModifier

```
public DeterminationModifier(java.lang.String term,  
                             java.lang.String label)
```


eu.etaxonomy.cdm.model.occurrence

Class FieldObservation

```

java.lang.Object
├── eu.etaxonomy.cdm.model.common.CdmBase
│   ├── eu.etaxonomy.cdm.model.common.VersionableEntity
│   │   ├── eu.etaxonomy.cdm.model.common.AnnotatableEntity
│   │   │   ├── eu.etaxonomy.cdm.model.common.IdentifiableEntity
│   │   │   │   ├── eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity
│   │   │   │   │   ├── eu.etaxonomy.cdm.model.occurrence.SpecimenOrObservationBase
│   │   │   │   │   └── eu.etaxonomy.cdm.model.occurrence.FieldObservation

```

All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

```

public class FieldObservation
extends SpecimenOrObservationBase

```

In situ observation of a taxon in the field. If a specimen exists, in most cases a parallel field observation object should be instantiated and the specimen then is "derived" from the field unit

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	FieldObservation()
--------	------------------------------------

Method Summary

java.lang.String	getFieldNotes()
------------------	---------------------------------

java.lang.String	getFieldNumber()
------------------	----------------------------------

GatheringEvent	getGatheringEvent()
--------------------------------	-------------------------------------

void	setFieldNotes (java.lang.String fieldNotes)
------	---

void	setFieldNumber (java.lang.String fieldNumber)
------	---

void	setGatheringEvent (GatheringEvent gatheringEvent)
------	--

Methods inherited from class [eu.etaxonomy.cdm.model.occurrence.SpecimenOrObservationBase](#)

[addDefinition](#), [addDefinition](#), [addDerivationEvent](#), [addDetermination](#), [generateTitle](#), [getDefinition](#), [getDerivationEvents](#), [getDeterminations](#), [getGatheringEvent](#), [getIndividualCount](#), [getLifeStage](#), [getOriginalUnit](#), [getSex](#), [removeDefinition](#), [removeDerivationEvent](#), [removeDetermination](#), [setDerivationEvents](#), [setDeterminations](#), [setIndividualCount](#), [setLifeStage](#), [setSex](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

FieldObservation

```
public FieldObservation()
```

Methods

getGatheringEvent

```
public GatheringEvent getGatheringEvent()
```

setGatheringEvent

```
public void setGatheringEvent(GatheringEvent gatheringEvent)
```

getFieldNumber

```
public java.lang.String getFieldNumber()
```

setFieldNumber

```
public void setFieldNumber(java.lang.String fieldNumber)
```

getFieldNotes

```
public java.lang.String getFieldNotes()
```

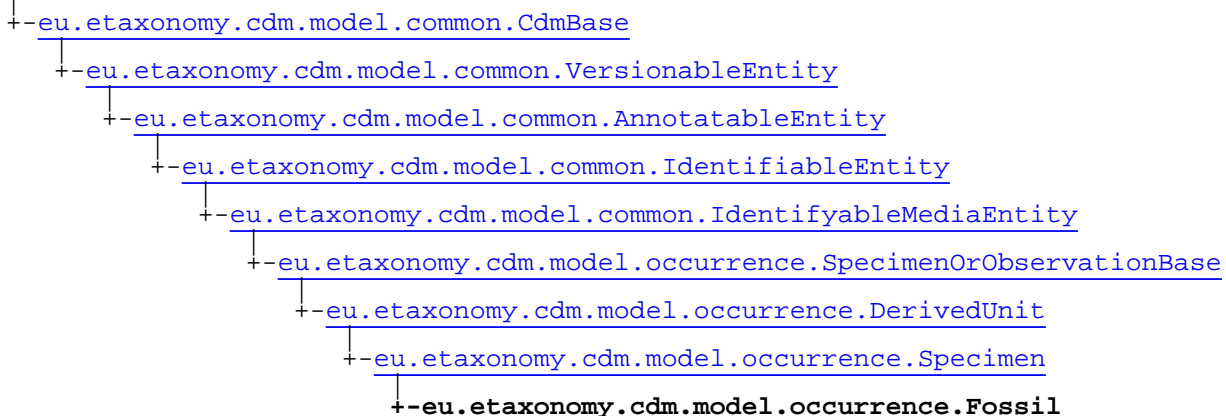
setFieldNotes

```
public void setFieldNotes(java.lang.String fieldNotes)
```

eu.etaxonomy.cdm.model.occurrence

Class Fossil

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

public class **Fossil**
 extends [Specimen](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public [Fossil](#)()

Methods inherited from class [eu.etaxonomy.cdm.model.occurrence.Specimen](#)

[getPreservation](#), [setPreservation](#)

Methods inherited from class [eu.etaxonomy.cdm.model.occurrence.DerivedUnit](#)

[getCatalogNumber](#), [getCollection](#), [getDerivedFrom](#), [getGatheringEvent](#), [getOriginals](#),
[getStoredUnder](#), [setCatalogNumber](#), [setCollection](#), [setDerivedFrom](#), [setStoredUnder](#)

Methods inherited from class [eu.etaxonomy.cdm.model.occurrence.SpecimenOrObservationBase](#)

[addDefinition](#), [addDefinition](#), [addDerivationEvent](#), [addDetermination](#), [generateTitle](#),
[getDefinition](#), [getDerivationEvents](#), [getDeterminations](#), [getGatheringEvent](#),
[getIndividualCount](#), [getLifeStage](#), [getOriginalUnit](#), [getSex](#), [removeDefinition](#),
[removeDerivationEvent](#), [removeDetermination](#), [setDerivationEvents](#), [setDeterminations](#),
[setIndividualCount](#), [setLifeStage](#), [setSex](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifyableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

Fossil

```
public Fossil()
```

eu.etaxonomy.cdm.model.occurrence Class GatheringEvent

```

java.lang.Object
  |
  +- eu.etaxonomy.cdm.model.common.CdmBase
      |
      +- eu.etaxonomy.cdm.model.common.VersionableEntity
          |
          +- eu.etaxonomy.cdm.model.common.AnnotatableEntity
              |
              +- eu.etaxonomy.cdm.model.common.EventBase
                  |
                  +- eu.etaxonomy.cdm.model.occurrence.GatheringEvent
  
```

All Implemented Interfaces:

java.io.Serializable, [IEvent](#)

```

public class GatheringEvent
extends EventBase
  
```

The event when gathering a specimen or recording a field observation only

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	GatheringEvent()
--------	----------------------------------

Method Summary

java.lang.Integer	getAbsoluteElevation()
-------------------	--

java.lang.Integer	getAbsoluteElevationError()
-------------------	---

NamedArea	getCollectingArea()
---------------------------	-------------------------------------

java.lang.String	getCollectingMethod()
------------------	---------------------------------------

Agent	getCollector()
-----------------------	--------------------------------

java.lang.Integer	getDistanceToGround()
-------------------	---------------------------------------

java.lang.Integer	getDistanceToWaterSurface()
-------------------	---

Point	getExactLocation()
-----------------------	------------------------------------

java.util.Calendar	getGatheringDate() EventBase managed attributes
--------------------	--

java.lang.String	getLocality()
void	setAbsoluteElevation (java.lang.Integer absoluteElevation)
void	setAbsoluteElevationError (java.lang.Integer absoluteElevationError)
void	setCollectingArea (NamedArea area)
void	setCollectingMethod (java.lang.String collectingMethod)
void	setCollector (Agent collector)
void	setDistanceToGround (java.lang.Integer distanceToGround)
void	setDistanceToWaterSurface (java.lang.Integer distanceToWaterSurface)
void	setExactLocation (Point exactLocation)
void	setGatheringDate (java.util.Calendar gatheringDate)
void	setLocality (java.lang.String locality)

Methods inherited from class [eu.etaxonomy.cdm.model.common.EventBase](#)

[getActor](#), [getDescription](#), [getTimeperiod](#), [setActor](#), [setDescription](#), [setTimeperiod](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IEvent](#)

[getActor](#), [getTimeperiod](#), [setActor](#), [setTimeperiod](#)

Constructors

GatheringEvent

```
public GatheringEvent()
```

Methods

getExactLocation

```
public Point getExactLocation()
```

setExactLocation

```
public void setExactLocation(Point exactLocation)
```

getCollectingArea

```
public NamedArea getCollectingArea()
```

setCollectingArea

```
public void setCollectingArea(NamedArea area)
```

getLocality

```
public java.lang.String getLocality()
```

setLocality

```
public void setLocality(java.lang.String locality)
```

getGatheringDate

```
public java.util.Calendar getGatheringDate()
```

EventBase managed attributes

Returns:

setGatheringDate

```
public void setGatheringDate(java.util.Calendar gatheringDate)
```

getCollector

```
public Agent getCollector()
```

setCollector

```
public void setCollector(Agent collector)
```

getCollectingMethod

```
public java.lang.String getCollectingMethod()
```

setCollectingMethod

```
public void setCollectingMethod(java.lang.String collectingMethod)
```

getAbsoluteElevation

```
public java.lang.Integer getAbsoluteElevation()
```

setAbsoluteElevation

```
public void setAbsoluteElevation(java.lang.Integer absoluteElevation)
```

getAbsoluteElevationError

```
public java.lang.Integer getAbsoluteElevationError()
```

setAbsoluteElevationError

```
public void setAbsoluteElevationError(java.lang.Integer absoluteElevationError)
```

getDistanceToGround

```
public java.lang.Integer getDistanceToGround()
```

(continued from last page)

setDistanceToGround

```
public void setDistanceToGround(java.lang.Integer distanceToGround)
```

getDistanceToWaterSurface

```
public java.lang.Integer getDistanceToWaterSurface()
```

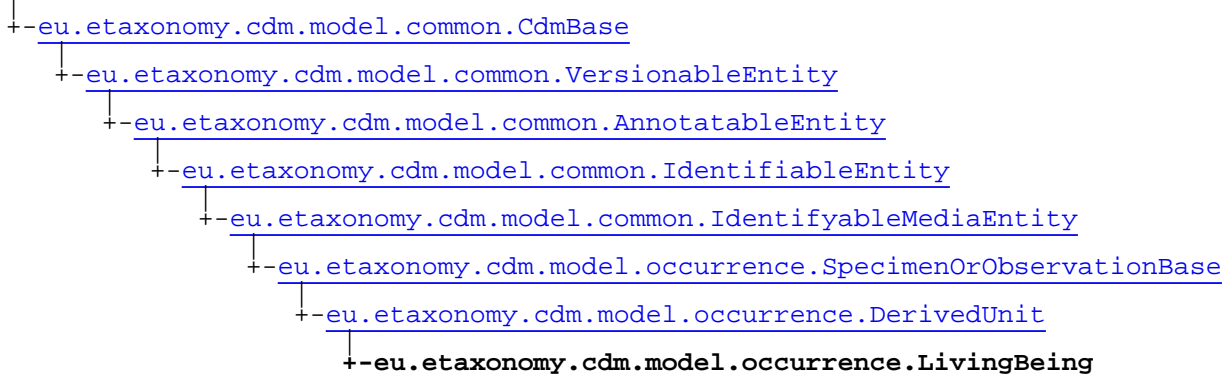
setDistanceToWaterSurface

```
public void setDistanceToWaterSurface(java.lang.Integer distanceToWaterSurface)
```

eu.etaxonomy.cdm.model.occurrence

Class LivingBeing

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

public class **LivingBeing**
 extends [DerivedUnit](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public [LivingBeing](#)()

Methods inherited from class [eu.etaxonomy.cdm.model.occurrence.DerivedUnit](#)

[getCatalogNumber](#), [getCollection](#), [getDerivedFrom](#), [getGatheringEvent](#), [getOriginals](#),
[getStoredUnder](#), [setCatalogNumber](#), [setCollection](#), [setDerivedFrom](#), [setStoredUnder](#)

Methods inherited from class [eu.etaxonomy.cdm.model.occurrence.SpecimenOrObservationBase](#)

[addDefinition](#), [addDefinition](#), [addDerivationEvent](#), [addDetermination](#), [generateTitle](#),
[getDefinition](#), [getDerivationEvents](#), [getDeterminations](#), [getGatheringEvent](#),
[getIndividualCount](#), [getLifeStage](#), [getOriginalUnit](#), [getSex](#), [removeDefinition](#),
[removeDerivationEvent](#), [removeDetermination](#), [setDerivationEvents](#), [setDeterminations](#),
[setIndividualCount](#), [setLifeStage](#), [setSex](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifyableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

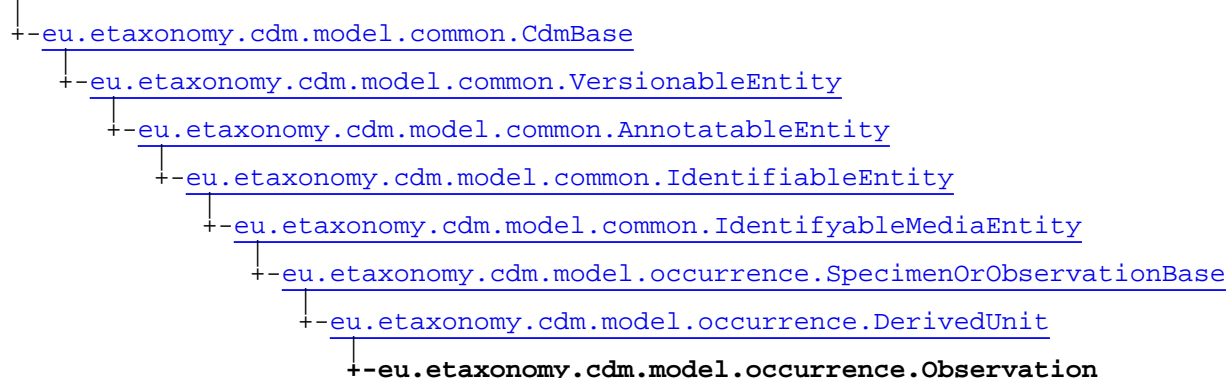
Constructors

LivingBeing

```
public LivingBeing()
```

eu.etaxonomy.cdm.model.occurrence Class Observation

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

public class **Observation**
extends [DerivedUnit](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public [Observation](#)()

Methods inherited from class [eu.etaxonomy.cdm.model.occurrence.DerivedUnit](#)

[getCatalogNumber](#), [getCollection](#), [getDerivedFrom](#), [getGatheringEvent](#), [getOriginals](#),
[getStoredUnder](#), [setCatalogNumber](#), [setCollection](#), [setDerivedFrom](#), [setStoredUnder](#)

Methods inherited from class [eu.etaxonomy.cdm.model.occurrence.SpecimenOrObservationBase](#)

[addDefinition](#), [addDefinition](#), [addDerivationEvent](#), [addDetermination](#), [generateTitle](#),
[getDefinition](#), [getDerivationEvents](#), [getDeterminations](#), [getGatheringEvent](#),
[getIndividualCount](#), [getLifeStage](#), [getOriginalUnit](#), [getSex](#), [removeDefinition](#),
[removeDerivationEvent](#), [removeDetermination](#), [setDerivationEvents](#), [setDeterminations](#),
[setIndividualCount](#), [setLifeStage](#), [setSex](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifyableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

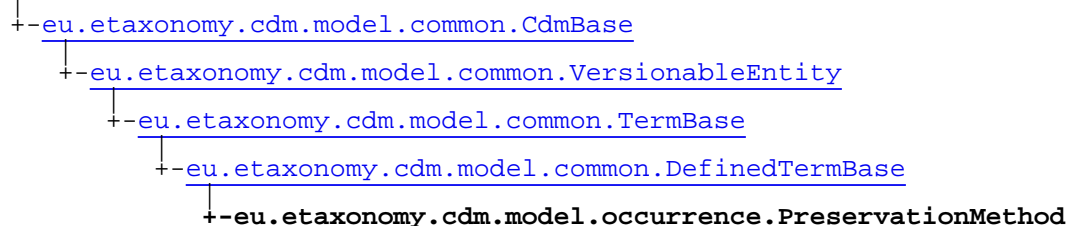
Constructors

Observation

```
public Observation()
```

eu.etaxonomy.cdm.model.occurrence Class PreservationMethod

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#)

public class **PreservationMethod**
extends [DefinedTermBase](#)

<http://rs.tdwg.org/ontology/voc/Collection.rdf#SpecimenPreservationMethodTypeTerm>

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	PreservationMethod (java.lang.String term, java.lang.String label)
--------	--

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Constructors

PreservationMethod

```
public PreservationMethod(java.lang.String term,  
                           java.lang.String label)
```


eu.etaxonomy.cdm.model.occurrence Class Specimen

```

java.lang.Object
├── eu.etaxonomy.cdm.model.common.CdmBase
│   ├── eu.etaxonomy.cdm.model.common.VersionableEntity
│   │   ├── eu.etaxonomy.cdm.model.common.AnnotatableEntity
│   │   │   ├── eu.etaxonomy.cdm.model.common.IdentifiableEntity
│   │   │   │   ├── eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity
│   │   │   │   │   ├── eu.etaxonomy.cdm.model.occurrence.SpecimenOrObservationBase
│   │   │   │   │   │   ├── eu.etaxonomy.cdm.model.occurrence.DerivedUnit
│   │   │   │   │   │   │   └── eu.etaxonomy.cdm.model.occurrence.Specimen

```

All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

Direct Known Subclasses:

[Fossil](#), [DnaSample](#)

```

public class Specimen
extends DerivedUnit

```

A specimen is regarded as derived from an field observation, so locality and gathering related information is captured as a separate FieldObservation object related to a specimen via a derivation event

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	Specimen()
--------	----------------------------

Method Summary

PreservationMethod	getPreservation()
------------------------------------	-----------------------------------

void	setPreservation(PreservationMethod preservation)
------	--

Methods inherited from class [eu.etaxonomy.cdm.model.occurrence.DerivedUnit](#)

[getCatalogNumber](#), [getCollection](#), [getDerivedFrom](#), [getGatheringEvent](#), [getOriginals](#), [getStoredUnder](#), [setCatalogNumber](#), [setCollection](#), [setDerivedFrom](#), [setStoredUnder](#)

Methods inherited from class [eu.etaxonomy.cdm.model.occurrence.SpecimenOrObservationBase](#)

[addDefinition](#), [addDefinition](#), [addDerivationEvent](#), [addDetermination](#), [generateTitle](#), [getDefinition](#), [getDerivationEvents](#), [getDeterminations](#), [getGatheringEvent](#), [getIndividualCount](#), [getLifeStage](#), [getOriginalUnit](#), [getSex](#), [removeDefinition](#), [removeDerivationEvent](#), [removeDetermination](#), [setDerivationEvents](#), [setDeterminations](#), [setIndividualCount](#), [setLifeStage](#), [setSex](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

Specimen

```
public Specimen()
```

Methods

getPreservation

```
public PreservationMethod getPreservation()
```

setPreservation

```
public void setPreservation(PreservationMethod preservation)
```

eu.etaxonomy.cdm.model.occurrence Class SpecimenOrObservationBase

```

java.lang.Object
├── eu.etaxonomy.cdm.model.common.CdmBase
│   ├── eu.etaxonomy.cdm.model.common.VersionableEntity
│   │   ├── eu.etaxonomy.cdm.model.common.AnnotatableEntity
│   │   │   ├── eu.etaxonomy.cdm.model.common.IdentifiableEntity
│   │   │   │   ├── eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity
│   │   │   │   └── eu.etaxonomy.cdm.model.occurrence.SpecimenOrObservationBase

```

All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

Direct Known Subclasses:

[DerivedUnit](#), [FieldObservation](#)

public abstract class **SpecimenOrObservationBase**
extends [IdentifiableMediaEntity](#)

type figures are observations with at least a figure object in media

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public [SpecimenOrObservationBase](#)()

Method Summary

void [addDefinition](#)([LanguageString](#) description)

void [addDefinition](#)(java.lang.String text, [Language](#) lang)

void [addDerivationEvent](#)([DerivationEvent](#) event)

void [addDetermination](#)([DeterminationEvent](#) determination)

java.lang.String [generateTitle](#)()

[MultilanguageSet](#) [getDefinition](#)()

java.util.Set [getDerivationEvents](#)()

java.util.Set [getDeterminations](#)()

abstract GatheringEvent	getGatheringEvent()
java.lang.Integer	getIndividualCount()
Stage	getLifeStage()
SpecimenOrObservationBase	getOriginalUnit() for derived units get the single next higher parental/original unit.
Sex	getSex()
void	removeDefinition(Language lang)
void	removeDerivationEvent(DerivationEvent event)
void	removeDetermination(DeterminationEvent determination)
void	setDerivationEvents(java.util.Set derivationEvents)
void	setDeterminations(java.util.Set determinations)
void	setIndividualCount(java.lang.Integer individualCount)
void	setLifeStage(Stage lifeStage)
void	setSex(Sex sex)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

SpecimenOrObservationBase

```
public SpecimenOrObservationBase()
```

Methods

getDerivationEvents

```
public java.util.Set getDerivationEvents()
```

setDerivationEvents

```
protected void setDerivationEvents(java.util.Set derivationEvents)
```

addDerivationEvent

```
public void addDerivationEvent(DerivationEvent event)
```

removeDerivationEvent

```
public void removeDerivationEvent(DerivationEvent event)
```

(continued from last page)

getDeterminations

```
public java.util.Set getDeterminations()
```

setDeterminations

```
protected void setDeterminations(java.util.Set determinations)
```

addDetermination

```
public void addDetermination(DeterminationEvent determination)
```

removeDetermination

```
public void removeDetermination(DeterminationEvent determination)
```

getSex

```
public Sex getSex()
```

setSex

```
public void setSex(Sex sex)
```

getLifeStage

```
public Stage getLifeStage()
```

setLifeStage

```
public void setLifeStage(Stage lifeStage)
```

generateTitle

```
public java.lang.String generateTitle()
```

getIndividualCount

```
public java.lang.Integer getIndividualCount()
```

(continued from last page)

setIndividualCount

```
public void setIndividualCount(java.lang.Integer individualCount)
```

getDefinition

```
public MultilanguageSet getDefinition()
```

addDefinition

```
public void addDefinition(LanguageString description)
```

addDefinition

```
public void addDefinition(java.lang.String text,  
    Language lang)
```

removeDefinition

```
public void removeDefinition(Language lang)
```

getOriginalUnit

```
public SpecimenOrObservationBase getOriginalUnit()
```

for derived units get the single next higher parental/original unit. If multiple original units exist throw error

Returns:

getGatheringEvent

```
public abstract GatheringEvent getGatheringEvent()
```

Package

eu.etaxonomy.cdm.model.reference

Package: "reference"

Provides classes for nomenclatural and bibliographical references

- either as a complex structure of specific subclasses according to the different kind of possible references used (see `StrictReferenceBase` class and subclasses)
- or as a flat structure (see `BibTexReference` class)

Related Documentation

- [TDWG PublicationCitation LSID Ontology](#)
- [TCS schema](#)
- [BibTex](#)

UML Diagrams

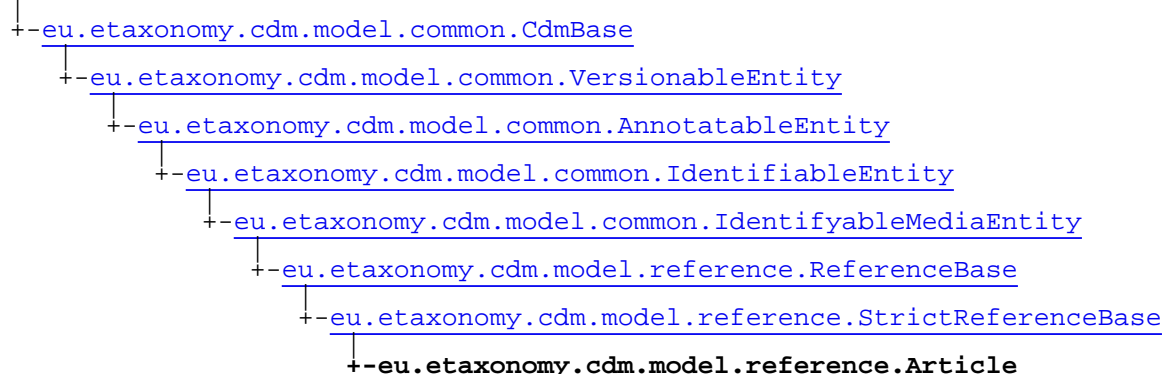
Reference base

Reference types

BibTex

eu.etaxonomy.cdm.model.reference Class Article

java.lang.Object



All Implemented Interfaces:

[INomenclaturalReference](#), [java.io.Serializable](#), [IOriginalSource](#), [IMediaDocumented](#)

public class **Article**

extends [StrictReferenceBase](#)

implements [IMediaDocumented](#), [IOriginalSource](#), [java.io.Serializable](#), [INomenclaturalReference](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	Article()
--------	---------------------------

Method Summary

java.lang.String	generateTitle()
------------------	---------------------------------

java.lang.String	getCitation() returns a formatted string containing the entire reference citation including authors
------------------	--

Journal	getInJournal()
-------------------------	--------------------------------

java.lang.String	getNomenclaturalCitation() returns a formatted string containing the reference citation excluding authors as used in a taxon name
------------------	--

java.lang.String	getPages()
------------------	----------------------------

java.lang.String	getSeries()
------------------	-----------------------------

java.lang.String	getVolume()
------------------	-----------------------------

void	setInJournal (Journal inJournal)
void	setPages (java.lang.String pages)
void	setSeries (java.lang.String series)
void	setVolume (java.lang.String volume)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.StrictReferenceBase](#)

[getCitation](#), [getDatePublished](#), [getTitle](#), [getYear](#), [setDatePublished](#), [setTitle](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.ReferenceBase](#)

[getAuthorTeam](#), [getCitation](#), [getUri](#), [getYear](#), [isNomenclaturallyRelevant](#), [setAuthorTeam](#), [setNomenclaturallyRelevant](#), [setUri](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.reference.INomenclaturalReference](#)

[getNomenclaturalCitation](#), [getYear](#)

Constructors

Article

```
public Article()
```

Methods

getInJournal

```
public Journal getInJournal()
```

setInJournal

```
public void setInJournal(Journal inJournal)
```

getSeries

```
public java.lang.String getSeries()
```

setSeries

```
public void setSeries(java.lang.String series)
```

Parameters:

series - series

getVolume

```
public java.lang.String getVolume()
```

setVolume

```
public void setVolume(java.lang.String volume)
```

(continued from last page)

Parameters:

volume - volume

getPages

```
public java.lang.String getPages()
```

setPages

```
public void setPages(java.lang.String pages)
```

Parameters:

pages - pages

getCitation

```
public java.lang.String getCitation()
```

returns a formatted string containing the entire reference citation including authors

getNomenclaturalCitation

```
public java.lang.String getNomenclaturalCitation()
```

returns a formatted string containing the reference citation excluding authors as used in a taxon name

generateTitle

```
public java.lang.String generateTitle()
```

eu.etaxonomy.cdm.model.reference

Class BibtexEntryType

```

java.lang.Object
├── eu.etaxonomy.cdm.model.common.CdmBase
│   ├── eu.etaxonomy.cdm.model.common.VersionableEntity
│   │   ├── eu.etaxonomy.cdm.model.common.TermBase
│   │   │   ├── eu.etaxonomy.cdm.model.common.DefinedTermBase
│   │   │   └── eu.etaxonomy.cdm.model.reference.BibtexEntryType

```

All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#)

```

public class BibtexEntryType
extends DefinedTermBase

```

Bibtex bibliography entries are split by types

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	BibtexEntryType()
public	BibtexEntryType (java.lang.String term, java.lang.String label)

Method Summary

static BibtexEntryType	ARTICLE() An article from a journal or magazine.
static BibtexEntryType	BOOK() A book with an explicit publisher.
static BibtexEntryType	BOOKLET() A work that is printed and bound, but without a named publisher or sponsoring institution.
static BibtexEntryType	CONFERENCE() The same as inproceedings.
static BibtexEntryType	INBOOK() A part of a book, which may be a chapter (or section or whatever) and/or a range of pages.
static BibtexEntryType	INCOLLECTION() A part of a book having its own title.
static BibtexEntryType	INPROCEEDINGS() An article in a conference proceedings.

static BibtexEntryType	MANUAL() Technical documentation.
static BibtexEntryType	MASTERTHESIS() A Master's thesis.
static BibtexEntryType	MISC() For use when nothing else fits.
static BibtexEntryType	PHDTHESIS() A Ph.D.
static BibtexEntryType	PROCEEDINGS() The proceedings of a conference.
static BibtexEntryType	TECHREPORT() A report published by a school or other institution, usually numbered within a series.
static BibtexEntryType	UNPUBLISHED() A document having an author and title, but not formally published.

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Constructors

BibtexEntryType

```
public BibtexEntryType()
```

BibtexEntryType

```
public BibtexEntryType(java.lang.String term,
                       java.lang.String label)
```

Methods

ARTICLE

```
public final static BibtexEntryType ARTICLE()
```

An article from a journal or magazine. Required fields: author, title, journal, year Optional fields: volume, number, pages, month, note

BOOK

```
public final static BibtexEntryType BOOK()
```

A book with an explicit publisher. Required fields: author/editor, title, publisher, year Optional fields: volume, series, address, edition, month, note

BOOKLET

```
public final static BibtexEntryType BOOKLET()
```

A work that is printed and bound, but without a named publisher or sponsoring institution. Required fields: title Optional fields: author, howpublished, address, month, year, note

INBOOK

```
public final static BibtexEntryType INBOOK()
```

A part of a book, which may be a chapter (or section or whatever) and/or a range of pages. Required fields: author/editor, title, chapter/pages, publisher, year Optional fields: volume, series, address, edition, month, note

INCOLLECTION

```
public final static BibtexEntryType INCOLLECTION()
```

A part of a book having its own title. Required fields: author, title, booktitle, year Optional fields: editor, pages, organization, publisher, address, month, note

PROCEEDINGS

```
public final static BibtexEntryType PROCEEDINGS()
```

The proceedings of a conference. Required fields: title, year Optional fields: editor, publisher, organization, address, month, note

INPROCEEDINGS

public final static [BibtexEntryType](#) **INPROCEEDINGS**()

An article in a conference proceedings. Required fields: author, title, booktitle, year Optional fields: editor, pages, organization, publisher, address, month, note

CONFERENCE

public final static [BibtexEntryType](#) **CONFERENCE**()

The same as inproceedings. Required fields: author, title, booktitle, year Optional fields: editor, pages, organization, publisher, address, month, note

MANUAL

public final static [BibtexEntryType](#) **MANUAL**()

Technical documentation. Required fields: title Optional fields: author, organization, address, edition, month, year, note

MASTERTHESIS

public final static [BibtexEntryType](#) **MASTERTHESIS**()

A Master's thesis. Required fields: author, title, school, year Optional fields: address, month, note

PHDTHESIS

public final static [BibtexEntryType](#) **PHDTHESIS**()

A Ph.D. thesis. Required fields: author, title, school, year Optional fields: address, month, note

TECHREPORT

public final static [BibtexEntryType](#) **TECHREPORT**()

A report published by a school or other institution, usually numbered within a series. Required fields: author, title, institution, year Optional fields: type, number, address, month, note

UNPUBLISHED

public final static [BibtexEntryType](#) **UNPUBLISHED**()

A document having an author and title, but not formally published. Required fields: author, title, note Optional fields: month, year

MISC

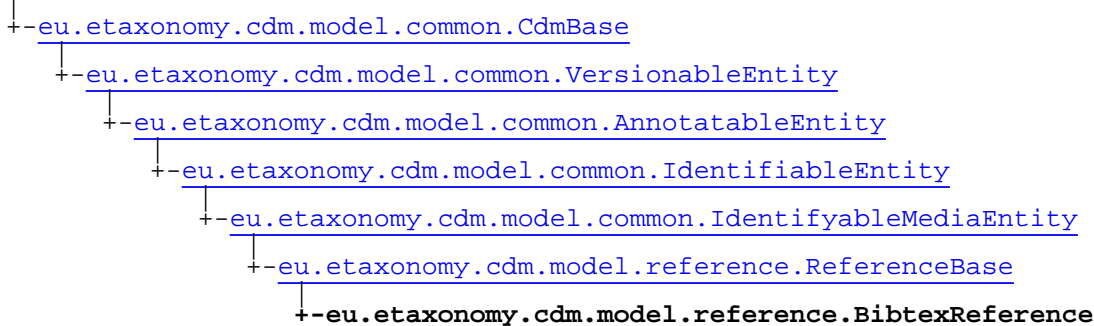
public final static [BibtexEntryType](#) **MISC**()

For use when nothing else fits. Required fields: none Optional fields: author, title, howpublished, month, year, note

eu.etaxonomy.cdm.model.reference

Class BibtexReference

java.lang.Object



All Implemented Interfaces:

[INomenclaturalReference](#), java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

public class **BibtexReference**

extends [ReferenceBase](#)

implements [IMediaDocumented](#), [IOriginalSource](#), java.io.Serializable, [INomenclaturalReference](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public [BibtexReference](#)()

Method Summary

java.lang.String [generateTitle](#)()

java.lang.String [getAddress](#)()

java.lang.String [getAnnote](#)()

java.lang.String [getBooktitle](#)()

java.lang.String [getChapter](#)()

java.lang.String [getCitation](#)()
returns a formatted string containing the entire reference citation including authors

[BibtexReference](#) [getCrossref](#)()

java.lang.String [getEdition](#)()

java.lang.String	getEditor()
java.lang.String	getEprint()
java.lang.String	getHowpublished()
java.lang.String	getInstitution()
java.lang.String	getJournal()
java.lang.String	getMonth()
java.lang.String	getNomenclaturalCitation() returns a formatted string containing the reference citation excluding authors as used in a taxon name
java.lang.String	getNote()
java.lang.String	getNumber()
java.lang.String	getOrganization()
java.lang.String	getPages()
java.lang.String	getPublisher()
java.lang.String	getReportType()
java.lang.String	getSchool()
java.lang.String	getSeries()
java.lang.String	getTitle()
BibtexEntryType	getType()
java.lang.String	getVolume()
java.lang.String	getYear()
void	setAddress (java.lang.String address)
void	setAnnote (java.lang.String annote)
void	setBooktitle (java.lang.String booktitle)
void	setChapter (java.lang.String chapter)
void	setCrossref (BibtexReference crossref)

void	setEdition (java.lang.String edition)
void	setEditor (java.lang.String editor)
void	setEprint (java.lang.String eprint)
void	setHowpublished (java.lang.String howpublished)
void	setInstitution (java.lang.String institution)
void	setJournal (java.lang.String journal)
void	setMonth (java.lang.String month)
void	setNote (java.lang.String note)
void	setNumber (java.lang.String number)
void	setOrganization (java.lang.String organization)
void	setPages (java.lang.String pages)
void	setPublisher (java.lang.String publisher)
void	setReportType (java.lang.String type)
void	setSchool (java.lang.String school)
void	setSeries (java.lang.String series)
void	setTitle (java.lang.String title)
void	setType (BibtexEntryType type)
void	setVolume (java.lang.String volume)
void	setYear (java.lang.String year)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.ReferenceBase](#)

[getAuthorTeam](#), [getCitation](#), [getUri](#), [getYear](#), [isNomenclaturallyRelevant](#), [setAuthorTeam](#), [setNomenclaturallyRelevant](#), [setUri](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.reference.INomenclaturalReference](#)

[getNomenclaturalCitation](#), [getYear](#)

Constructors

BibtexReference

```
public BibtexReference()
```

Methods

getCrossref

```
public BibtexReference getCrossref()
```

setCrossref

```
public void setCrossref(BibtexReference crossref)
```

getJournal

```
public java.lang.String getJournal()
```

setJournal

```
public void setJournal(java.lang.String journal)
```

Parameters:

journal - journal

getBooktitle

```
public java.lang.String getBooktitle()
```

setBooktitle

```
public void setBooktitle(java.lang.String booktitle)
```

Parameters:

booktitle - booktitle

getChapter

```
public java.lang.String getChapter()
```

setChapter

```
public void setChapter(java.lang.String chapter)
```

Parameters:

chapter - chapter

getTitle

```
public java.lang.String getTitle()
```

setTitle

```
public void setTitle(java.lang.String title)
```

Parameters:

title - title

getSeries

```
public java.lang.String getSeries()
```

setSeries

```
public void setSeries(java.lang.String series)
```

Parameters:

series - series

getEdition

```
public java.lang.String getEdition()
```

setEdition

```
public void setEdition(java.lang.String edition)
```

Parameters:

edition - edition

getVolume

```
public java.lang.String getVolume()
```

setVolume

```
public void setVolume(java.lang.String volume)
```

Parameters:

volume - volume

getNumber

```
public java.lang.String getNumber()
```

(continued from last page)

setNumber

```
public void setNumber(java.lang.String number)
```

Parameters:number - number

getPages

```
public java.lang.String getPages()
```

setPages

```
public void setPages(java.lang.String pages)
```

Parameters:pages - pages

getAnnote

```
public java.lang.String getAnnote()
```

setAnnote

```
public void setAnnote(java.lang.String annote)
```

Parameters:annote - annote

getEditor

```
public java.lang.String getEditor()
```

setEditor

```
public void setEditor(java.lang.String editor)
```

Parameters:editor - editor

(continued from last page)

getInstitution

```
public java.lang.String getInstitution()
```

setInstitution

```
public void setInstitution(java.lang.String institution)
```

Parameters:

institution - institution

getSchool

```
public java.lang.String getSchool()
```

setSchool

```
public void setSchool(java.lang.String school)
```

Parameters:

school - school

getOrganization

```
public java.lang.String getOrganization()
```

setOrganization

```
public void setOrganization(java.lang.String organization)
```

Parameters:

organization - organization

getPublisher

```
public java.lang.String getPublisher()
```

setPublisher

```
public void setPublisher(java.lang.String publisher)
```

Parameters:

(continued from last page)

publisher - publisher

getAddress

```
public java.lang.String getAddress()
```

setAddress

```
public void setAddress(java.lang.String address)
```

Parameters:

address - address

getHowpublished

```
public java.lang.String getHowpublished()
```

setHowpublished

```
public void setHowpublished(java.lang.String howpublished)
```

Parameters:

howpublished - howpublished

getReportType

```
public java.lang.String getReportType()
```

setReportType

```
public void setReportType(java.lang.String type)
```

Parameters:

type - type

getMonth

```
public java.lang.String getMonth()
```

setMonth

```
public void setMonth(java.lang.String month)
```

(continued from last page)

Parameters:

month - month

getYear

```
public java.lang.String getYear()
```

setYear

```
public void setYear(java.lang.String year)
```

Parameters:

year - year

getEprint

```
public java.lang.String getEprint()
```

setEprint

```
public void setEprint(java.lang.String eprint)
```

Parameters:

eprint - eprint

getNote

```
public java.lang.String getNote()
```

setNote

```
public void setNote(java.lang.String note)
```

Parameters:

note - note

getCitation

```
public java.lang.String getCitation()
```

returns a formatted string containing the entire reference citation including authors

getNomenclaturalCitation

```
public java.lang.String getNomenclaturalCitation()
```

(continued from last page)

returns a formatted string containing the reference citation excluding authors as used in a taxon name

generateTitle

```
public java.lang.String generateTitle()
```

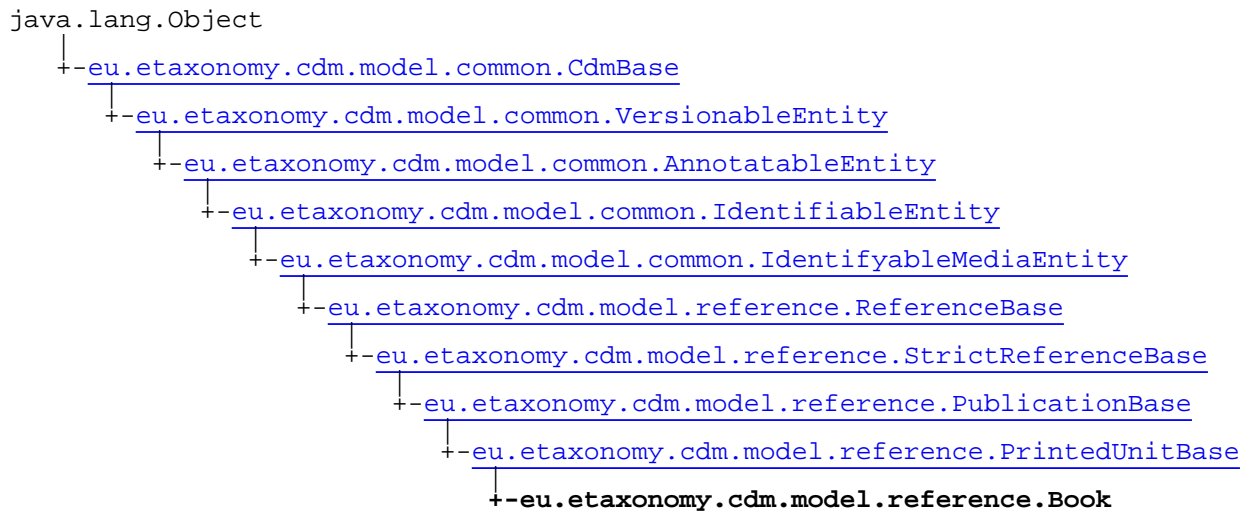
getType

```
public BibtexEntryType getType()
```

setType

```
public void setType(BibtexEntryType type)
```

eu.etaxonomy.cdm.model.reference Class Book



All Implemented Interfaces:

[INomenclaturalReference](#), [java.io.Serializable](#), [IOriginalSource](#), [IMediaDocumented](#)

public class **Book**

extends [PrintedUnitBase](#)

implements [IMediaDocumented](#), [IOriginalSource](#), [java.io.Serializable](#), [INomenclaturalReference](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	Book()
--------	------------------------

Method Summary

java.lang.String	generateTitle()
------------------	---------------------------------

java.lang.String	getCitation() returns a formatted string containing the entire reference citation including authors
------------------	--

java.lang.String	getEdition()
------------------	------------------------------

java.lang.String	getIsbn()
------------------	---------------------------

java.lang.String	getNomenclaturalCitation()
------------------	--

void	setEdition(java.lang.String edition)
------	--

void	setIsbn (java.lang.String isbn)
------	---

Methods inherited from class [eu.etaxonomy.cdm.model.reference.PrintedUnitBase](#)

[getEditor](#), [getInSeries](#), [getPages](#), [getVolume](#), [setEditor](#), [setInSeries](#), [setPages](#), [setVolume](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.PublicationBase](#)

[getPlacePublished](#), [getPublisher](#), [setPlacePublished](#), [setPublisher](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.StrictReferenceBase](#)

[getCitation](#), [getDatePublished](#), [getTitle](#), [getYear](#), [setDatePublished](#), [setTitle](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.ReferenceBase](#)

[getAuthorTeam](#), [getCitation](#), [getUri](#), [getYear](#), [isNomenclaturallyRelevant](#), [setAuthorTeam](#), [setNomenclaturallyRelevant](#), [setUri](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.reference.INomenclaturalReference](#)

[getNomenclaturalCitation](#), [getYear](#)

Constructors

Book

```
public Book()
```

Methods

getEdition

```
public java.lang.String getEdition()
```

setEdition

```
public void setEdition(java.lang.String edition)
```

getIsbn

```
public java.lang.String getIsbn()
```

setIsbn

```
public void setIsbn(java.lang.String isbn)
```

getCitation

```
public java.lang.String getCitation()
```

returns a formatted string containing the entire reference citation including authors

getNomenclaturalCitation

```
public java.lang.String getNomenclaturalCitation()
```

(continued from last page)

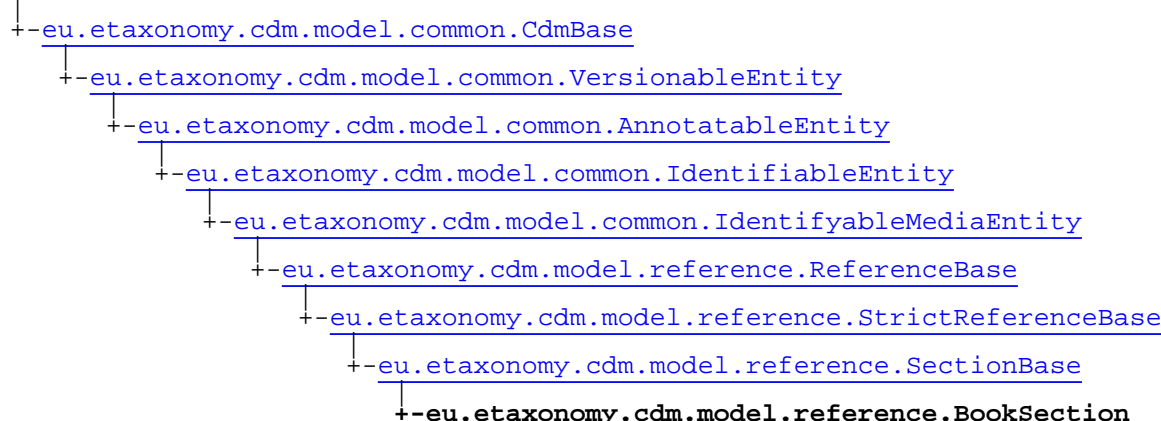
generateTitle

```
public java.lang.String generateTitle()
```


eu.etaxonomy.cdm.model.reference

Class BookSection

java.lang.Object



All Implemented Interfaces:

[INomenclaturalReference](#), java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

public class **BookSection**

extends [SectionBase](#)

implements [IMediaDocumented](#), [IOriginalSource](#), java.io.Serializable, [INomenclaturalReference](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	BookSection()
--------	-------------------------------

Method Summary

java.lang.String	generateTitle()
------------------	---------------------------------

java.lang.String	getCitation() returns a formatted string containing the entire reference citation including authors
------------------	--

Book	getInBook()
----------------------	-----------------------------

java.lang.String	getNomenclaturalCitation() returns a formatted string containing the reference citation excluding authors as used in a taxon name
------------------	--

void	setInBook(Book inBook)
------	--

Methods inherited from class [eu.etaxonomy.cdm.model.reference.SectionBase](#)

[getPages](#), [getPrintedUnit](#), [setPages](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.StrictReferenceBase](#)

[getCitation](#), [getDatePublished](#), [getTitle](#), [getYear](#), [setDatePublished](#), [setTitle](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.ReferenceBase](#)

[getAuthorTeam](#), [getCitation](#), [getUri](#), [getYear](#), [isNomenclaturallyRelevant](#), [setAuthorTeam](#), [setNomenclaturallyRelevant](#), [setUri](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.reference.INomenclaturalReference](#)

[getNomenclaturalCitation](#), [getYear](#)

(continued from last page)

Constructors

BookSection

```
public BookSection()
```

Methods

getInBook

```
public Book getInBook()
```

setInBook

```
public void setInBook(Book inBook)
```

Parameters:

inBook - inBook

getCitation

```
public java.lang.String getCitation()
```

returns a formatted string containing the entire reference citation including authors

getNomenclaturalCitation

```
public java.lang.String getNomenclaturalCitation()
```

returns a formatted string containing the reference citation excluding authors as used in a taxon name

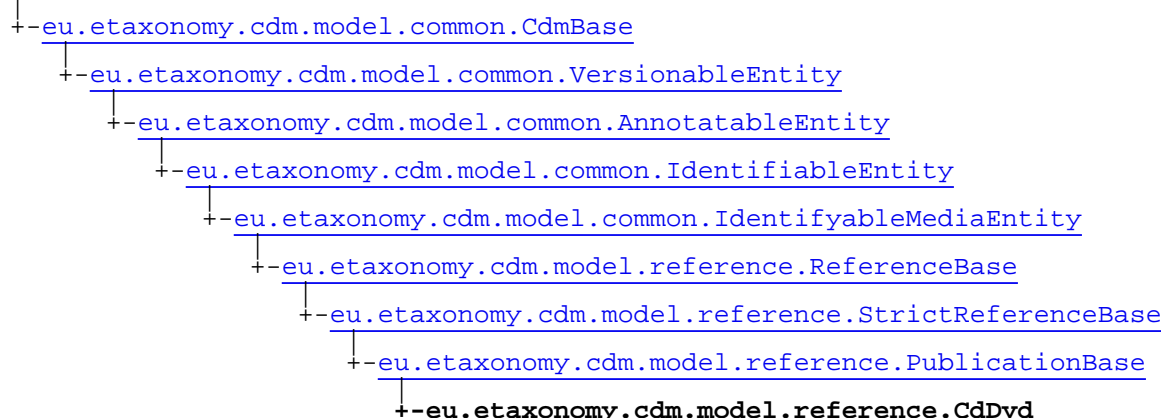
generateTitle

```
public java.lang.String generateTitle()
```

eu.etaxonomy.cdm.model.reference

Class CdDvd

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

public class **CdDvd**
 extends [PublicationBase](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public [CdDvd\(\)](#)

Method Summary

java.lang.String [generateTitle\(\)](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.PublicationBase](#)

[getPlacePublished](#), [getPublisher](#), [setPlacePublished](#), [setPublisher](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.StrictReferenceBase](#)

[getCitation](#), [getDatePublished](#), [getTitle](#), [getYear](#), [setDatePublished](#), [setTitle](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.ReferenceBase](#)

[getAuthorTeam](#), [getCitation](#), [getUri](#), [getYear](#), [isNomenclaturallyRelevant](#),
[setAuthorTeam](#), [setNomenclaturallyRelevant](#), [setUri](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifyableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

CdDvd

```
public CdDvd()
```

Methods

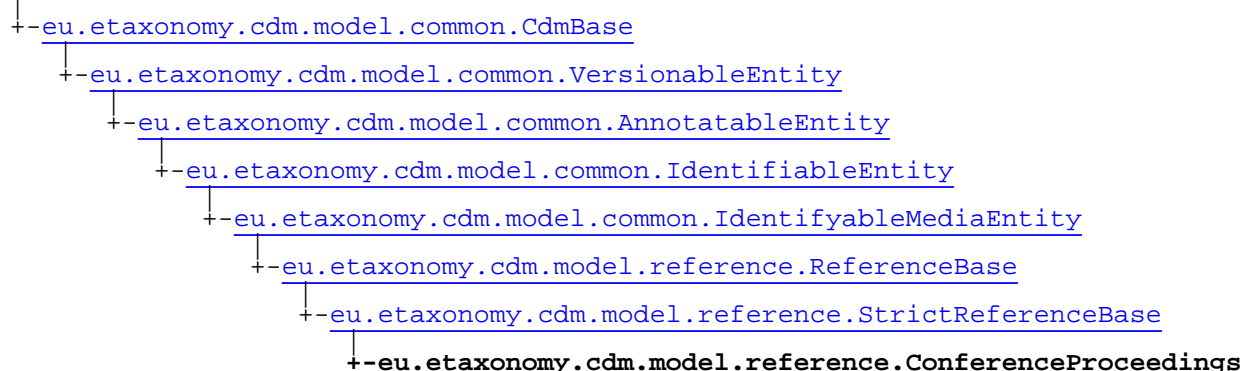
generateTitle

```
public java.lang.String generateTitle()
```

eu.etaxonomy.cdm.model.reference

Class ConferenceProceedings

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

```
public class ConferenceProceedings
extends StrictReferenceBase
```

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public [ConferenceProceedings](#)()

Method Summary

java.lang.String [generateTitle](#)()

Methods inherited from class [eu.etaxonomy.cdm.model.reference.StrictReferenceBase](#)

[getCitation](#), [getDatePublished](#), [getTitle](#), [getYear](#), [setDatePublished](#), [setTitle](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.ReferenceBase](#)

[getAuthorTeam](#), [getCitation](#), [getUri](#), [getYear](#), [isNomenclaturallyRelevant](#), [setAuthorTeam](#), [setNomenclaturallyRelevant](#), [setUri](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

ConferenceProceedings

```
public ConferenceProceedings()
```

Methods

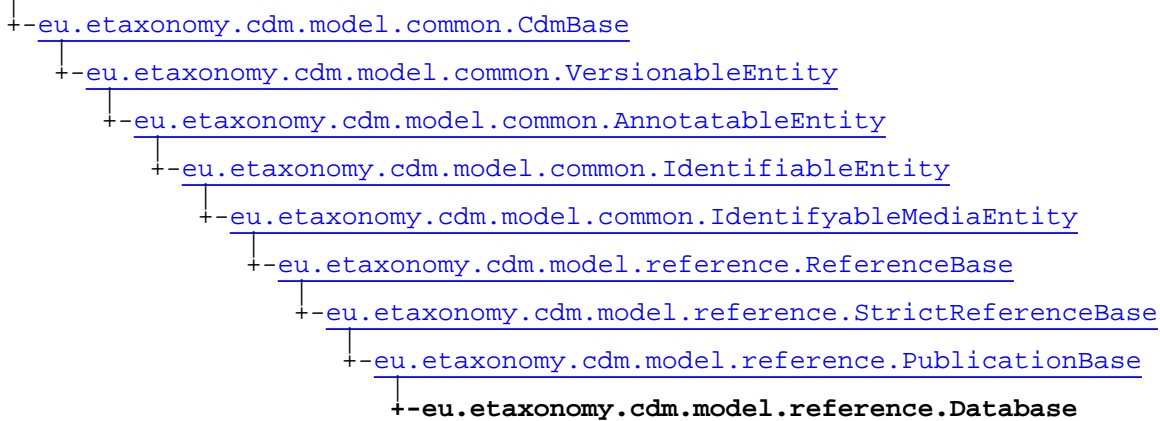
generateTitle

```
public java.lang.String generateTitle()
```

eu.etaxonomy.cdm.model.reference

Class Database

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

public class **Database**
 extends [PublicationBase](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public [Database](#)()

Method Summary

java.lang.String [generateTitle](#)()

Methods inherited from class [eu.etaxonomy.cdm.model.reference.PublicationBase](#)

[getPlacePublished](#), [getPublisher](#), [setPlacePublished](#), [setPublisher](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.StrictReferenceBase](#)

[getCitation](#), [getDatePublished](#), [getTitle](#), [getYear](#), [setDatePublished](#), [setTitle](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.ReferenceBase](#)

[getAuthorTeam](#), [getCitation](#), [getUri](#), [getYear](#), [isNomenclaturallyRelevant](#), [setAuthorTeam](#), [setNomenclaturallyRelevant](#), [setUri](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifyableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

Database

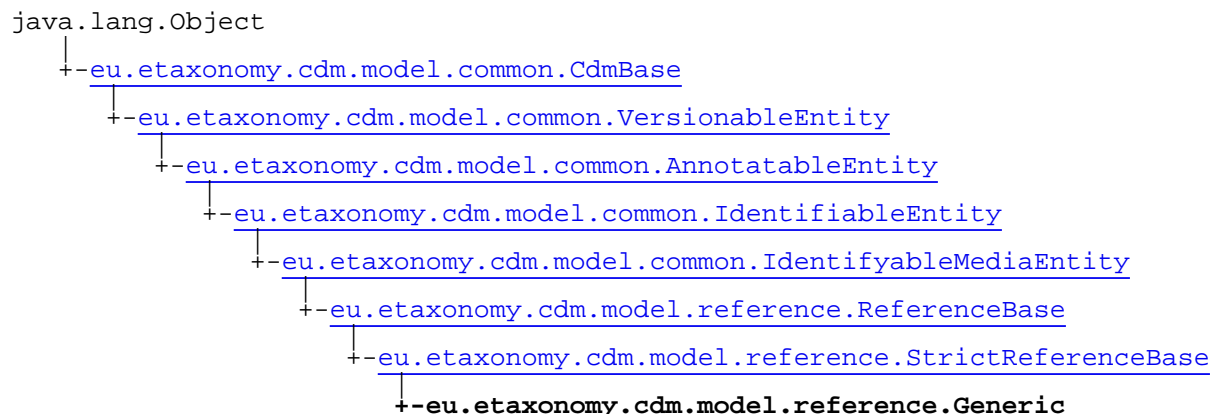
```
public Database()
```

Methods

generateTitle

```
public java.lang.String generateTitle()
```

eu.etaxonomy.cdm.model.reference Class Generic



All Implemented Interfaces:

[INomenclaturalReference](#), [java.io.Serializable](#), [IOriginalSource](#), [IMediaDocumented](#)

public class **Generic**

extends [StrictReferenceBase](#)

implements [IMediaDocumented](#), [IOriginalSource](#), [java.io.Serializable](#), [INomenclaturalReference](#)

This class is to represent all references which cannot be clearly assigned to a specific reference type. Therefore attributes which are only used by a unique reference type are not necessary here.

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public [Generic\(\)](#)

Method Summary

java.lang.String [generateTitle\(\)](#)

java.lang.String [getCitation\(\)](#)
returns a formatted string containing the entire reference citation including authors

java.lang.String [getEditor\(\)](#)

java.lang.String [getNomenclaturalCitation\(\)](#)
returns a formatted string containing the reference citation excluding authors as used in a taxon name

java.lang.String [getPages\(\)](#)

java.lang.String [getPlacePublished\(\)](#)

java.lang.String	getPublisher()
java.lang.String	getSeries()
java.lang.String	getVolume()
void	setEditor (java.lang.String editor)
void	setPages (java.lang.String pages)
void	setPlacePublished (java.lang.String placePublished)
void	setPublisher (java.lang.String publisher)
void	setSeries (java.lang.String series)
void	setVolume (java.lang.String volume)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.StrictReferenceBase](#)

[getCitation](#), [getDatePublished](#), [getTitle](#), [getYear](#), [setDatePublished](#), [setTitle](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.ReferenceBase](#)

[getAuthorTeam](#), [getCitation](#), [getUri](#), [getYear](#), [isNomenclaturallyRelevant](#), [setAuthorTeam](#), [setNomenclaturallyRelevant](#), [setUri](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.reference.INomenclaturalReference](#)

[getNomenclaturalCitation](#), [getYear](#)

Constructors

Generic

```
public Generic()
```

Methods

getPublisher

```
public java.lang.String getPublisher()
```

setPublisher

```
public void setPublisher(java.lang.String publisher)
```

Parameters:

publisher - publisher

getPlacePublished

```
public java.lang.String getPlacePublished()
```

(continued from last page)

setPlacePublished

```
public void setPlacePublished(java.lang.String placePublished)
```

Parameters:

placePublished - placePublished

getEditor

```
public java.lang.String getEditor()
```

setEditor

```
public void setEditor(java.lang.String editor)
```

Parameters:

editor - editor

getSeries

```
public java.lang.String getSeries()
```

setSeries

```
public void setSeries(java.lang.String series)
```

Parameters:

series - series

getVolume

```
public java.lang.String getVolume()
```

setVolume

```
public void setVolume(java.lang.String volume)
```

Parameters:

volume - volume

getPages

```
public java.lang.String getPages()
```

(continued from last page)

setPages

```
public void setPages(java.lang.String pages)
```

Parameters:

pages - pages

getCitation

```
public java.lang.String getCitation()
```

returns a formatted string containing the entire reference citation including authors

getNomenclaturalCitation

```
public java.lang.String getNomenclaturalCitation()
```

returns a formatted string containing the reference citation excluding authors as used in a taxon name

generateTitle

```
public java.lang.String generateTitle()
```

eu.etaxonomy.cdm.model.reference Interface INomenclaturalReference

All Known Implementing Classes:

[Article](#), [BibtexReference](#), [Book](#), [BookSection](#), [Generic](#)

public interface **INomenclaturalReference**
extends

Method Summary

java.lang.String	getNomenclaturalCitation() returns a formatted string containing the reference citation excluding authors as used in a taxon name
java.lang.String	getYear()

Methods

getNomenclaturalCitation

public java.lang.String **getNomenclaturalCitation()**

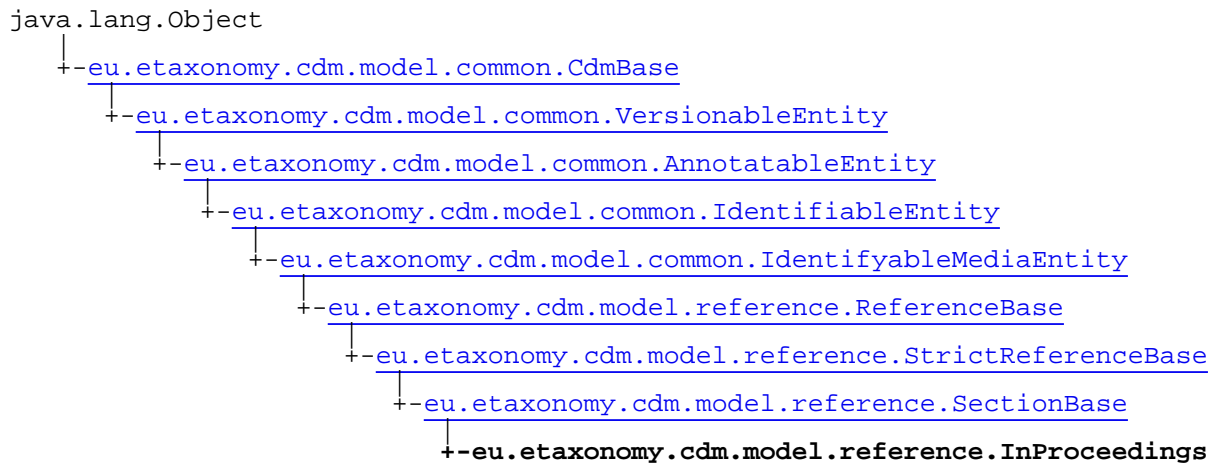
returns a formatted string containing the reference citation excluding authors as used in a taxon name

getYear

public java.lang.String **getYear()**

eu.etaxonomy.cdm.model.reference

Class InProceedings



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

public class **InProceedings**
 extends [SectionBase](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	InProceedings()
--------	---------------------------------

Method Summary

java.lang.String	generateTitle()
------------------	---------------------------------

Proceedings	getInProceedings()
-----------------------------	------------------------------------

void	setInProceedings(Proceedings inProceedings)
------	---

Methods inherited from class [eu.etaxonomy.cdm.model.reference.SectionBase](#)

[getPages](#), [getPrintedUnit](#), [setPages](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.StrictReferenceBase](#)

[getCitation](#), [getDatePublished](#), [getTitle](#), [getYear](#), [setDatePublished](#), [setTitle](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.ReferenceBase](#)

[getAuthorTeam](#), [getCitation](#), [getUri](#), [getYear](#), [isNomenclaturallyRelevant](#),
[setAuthorTeam](#), [setNomenclaturallyRelevant](#), [setUri](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#),
[getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#),
[removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#),
[setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#),
[removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#),
[getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#),
[firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#),
[firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#),
[removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#),
[setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#),
[wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

InProceedings

```
public InProceedings()
```

Methods

(continued from last page)

getInProceedings

```
public Proceedings getInProceedings()
```

setInProceedings

```
public void setInProceedings(Proceedings inProceedings)
```

Parameters:

inProceedings - inProceedings

generateTitle

```
public java.lang.String generateTitle()
```

eu.etaxonomy.cdm.model.reference Class Journal

```

java.lang.Object
├── eu.etaxonomy.cdm.model.common.CdmBase
│   ├── eu.etaxonomy.cdm.model.common.VersionableEntity
│   │   ├── eu.etaxonomy.cdm.model.common.AnnotatableEntity
│   │   │   ├── eu.etaxonomy.cdm.model.common.IdentifiableEntity
│   │   │   │   ├── eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity
│   │   │   │   │   ├── eu.etaxonomy.cdm.model.reference.ReferenceBase
│   │   │   │   │   │   ├── eu.etaxonomy.cdm.model.reference.StrictReferenceBase
│   │   │   │   │   │   │   ├── eu.etaxonomy.cdm.model.reference.PublicationBase
│   │   │   │   │   │   │   │   └── eu.etaxonomy.cdm.model.reference.Journal

```

All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

```

public class Journal
extends PublicationBase

```

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	Journal()
--------	---------------------------

Method Summary

java.lang.String	generateTitle()
------------------	---------------------------------

java.lang.String	getIssn()
------------------	---------------------------

void	setIssn(java.lang.String issn)
------	--

Methods inherited from class [eu.etaxonomy.cdm.model.reference.PublicationBase](#)

[getPlacePublished](#), [getPublisher](#), [setPlacePublished](#), [setPublisher](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.StrictReferenceBase](#)

[getCitation](#), [getDatePublished](#), [getTitle](#), [getYear](#), [setDatePublished](#), [setTitle](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.ReferenceBase](#)

[getAuthorTeam](#), [getCitation](#), [getUri](#), [getYear](#), [isNomenclaturallyRelevant](#),
[setAuthorTeam](#), [setNomenclaturallyRelevant](#), [setUri](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#),
[getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#),
[removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#),
[setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#),
[removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#),
[getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#),
[firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#),
[firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#),
[removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#),
[setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#),
[wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

Journal

```
public Journal()
```

Methods

(continued from last page)

getIssn

```
public java.lang.String getIssn()
```

setIssn

```
public void setIssn(java.lang.String issn)
```

Parameters:

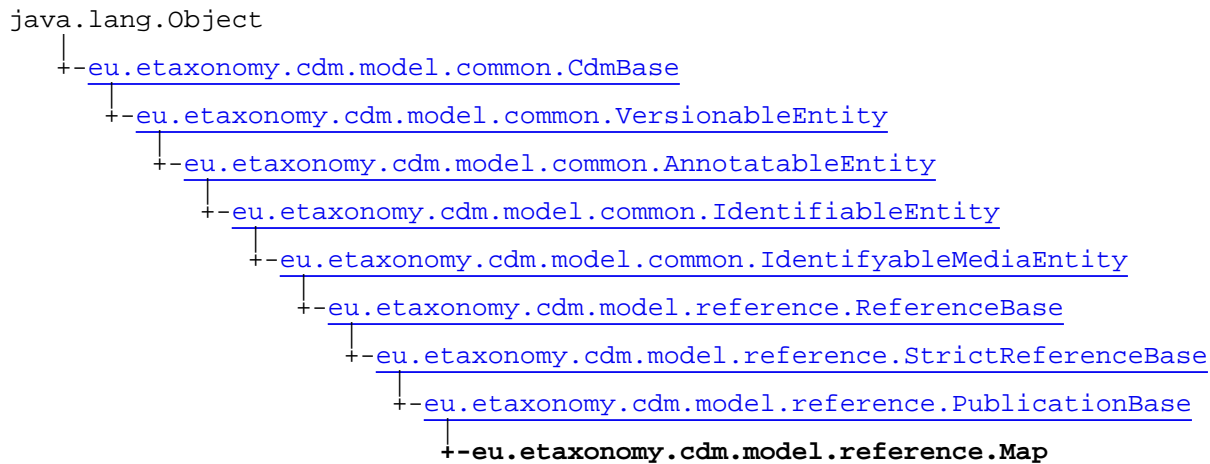
issn - issn

generateTitle

```
public java.lang.String generateTitle()
```

eu.etaxonomy.cdm.model.reference

Class Map



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

public class **Map**
 extends [PublicationBase](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public [Map\(\)](#)

Method Summary

java.lang.String [generateTitle\(\)](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.PublicationBase](#)

[getPlacePublished](#), [getPublisher](#), [setPlacePublished](#), [setPublisher](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.StrictReferenceBase](#)

[getCitation](#), [getDatePublished](#), [getTitle](#), [getYear](#), [setDatePublished](#), [setTitle](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.ReferenceBase](#)

[getAuthorTeam](#), [getCitation](#), [getUri](#), [getYear](#), [isNomenclaturallyRelevant](#), [setAuthorTeam](#), [setNomenclaturallyRelevant](#), [setUri](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

Map

```
public Map()
```

Methods

generateTitle

```
public java.lang.String generateTitle()
```

eu.etaxonomy.cdm.model.reference

Class Patent

```

java.lang.Object
  |
  +- eu.etaxonomy.cdm.model.common.CdmBase
    |
    +- eu.etaxonomy.cdm.model.common.VersionableEntity
      |
      +- eu.etaxonomy.cdm.model.common.AnnotatableEntity
        |
        +- eu.etaxonomy.cdm.model.common.IdentifiableEntity
          |
          +- eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity
            |
            +- eu.etaxonomy.cdm.model.reference.ReferenceBase
              |
              +- eu.etaxonomy.cdm.model.reference.StrictReferenceBase
                |
                +- eu.etaxonomy.cdm.model.reference.Patent
  
```

All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

```

public class Patent
extends StrictReferenceBase
  
```

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public [Patent](#)()

Method Summary

java.lang.String [generateTitle](#)()

Methods inherited from class [eu.etaxonomy.cdm.model.reference.StrictReferenceBase](#)

[getCitation](#), [getDatePublished](#), [getTitle](#), [getYear](#), [setDatePublished](#), [setTitle](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.ReferenceBase](#)

[getAuthorTeam](#), [getCitation](#), [getUri](#), [getYear](#), [isNomenclaturallyRelevant](#), [setAuthorTeam](#), [setNomenclaturallyRelevant](#), [setUri](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

Patent

```
public Patent()
```

Methods

generateTitle

```
public java.lang.String generateTitle()
```

eu.etaxonomy.cdm.model.reference

Class PersonalCommunication

```

java.lang.Object
├── eu.etaxonomy.cdm.model.common.CdmBase
│   ├── eu.etaxonomy.cdm.model.common.VersionableEntity
│   │   ├── eu.etaxonomy.cdm.model.common.AnnotatableEntity
│   │   │   ├── eu.etaxonomy.cdm.model.common.IdentifiableEntity
│   │   │   │   ├── eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity
│   │   │   │   │   ├── eu.etaxonomy.cdm.model.reference.ReferenceBase
│   │   │   │   │   │   ├── eu.etaxonomy.cdm.model.reference.StrictReferenceBase
│   │   │   │   │   │   └── eu.etaxonomy.cdm.model.reference.PersonalCommunication

```

All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

```

public class PersonalCommunication
extends StrictReferenceBase

```

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public [PersonalCommunication](#)()

Method Summary

java.lang.String [generateTitle](#)()

Methods inherited from class [eu.etaxonomy.cdm.model.reference.StrictReferenceBase](#)

[getCitation](#), [getDatePublished](#), [getTitle](#), [getYear](#), [setDatePublished](#), [setTitle](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.ReferenceBase](#)

[getAuthorTeam](#), [getCitation](#), [getUri](#), [getYear](#), [isNomenclaturallyRelevant](#), [setAuthorTeam](#), [setNomenclaturallyRelevant](#), [setUri](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

PersonalCommunication

```
public PersonalCommunication()
```

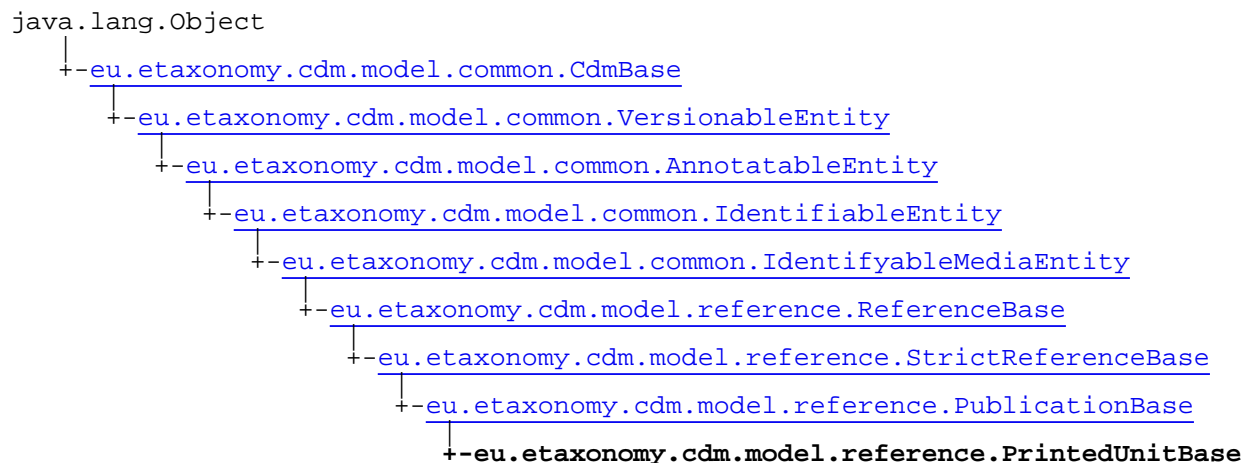
Methods

generateTitle

```
public java.lang.String generateTitle()
```

eu.etaxonomy.cdm.model.reference

Class PrintedUnitBase



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

Direct Known Subclasses:

[Book](#), [Proceedings](#)

public abstract class **PrintedUnitBase**
 extends [PublicationBase](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	PrintedUnitBase()
--------	-----------------------------------

Method Summary

java.lang.String	getEditor()
------------------	-----------------------------

PrintSeries	getInSeries()
-----------------------------	-------------------------------

java.lang.String	getPages()
------------------	----------------------------

java.lang.String	getVolume()
------------------	-----------------------------

void	setEditor (java.lang.String editor)
------	---

void	setInSeries (PrintSeries inSeries)
------	---

void	setPages (java.lang.String pages)
void	setVolume (java.lang.String volume)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.PublicationBase](#)

[getPlacePublished](#), [getPublisher](#), [setPlacePublished](#), [setPublisher](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.StrictReferenceBase](#)

[getCitation](#), [getDatePublished](#), [getTitle](#), [getYear](#), [setDatePublished](#), [setTitle](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.ReferenceBase](#)

[getAuthorTeam](#), [getCitation](#), [getUri](#), [getYear](#), [isNomenclaturallyRelevant](#), [setAuthorTeam](#), [setNomenclaturallyRelevant](#), [setUri](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

PrintedUnitBase

```
public PrintedUnitBase()
```

Methods

getInSeries

```
public PrintSeries getInSeries()
```

setInSeries

```
public void setInSeries(PrintSeries inSeries)
```

Parameters:

inSeries - inSeries

getEditor

```
public java.lang.String getEditor()
```

setEditor

```
public void setEditor(java.lang.String editor)
```

Parameters:

editor - editor

getVolume

```
public java.lang.String getVolume()
```

setVolume

```
public void setVolume(java.lang.String volume)
```

Parameters:

(continued from last page)

volume - volume

getPages

```
public java.lang.String getPages()
```

setPages

```
public void setPages(java.lang.String pages)
```

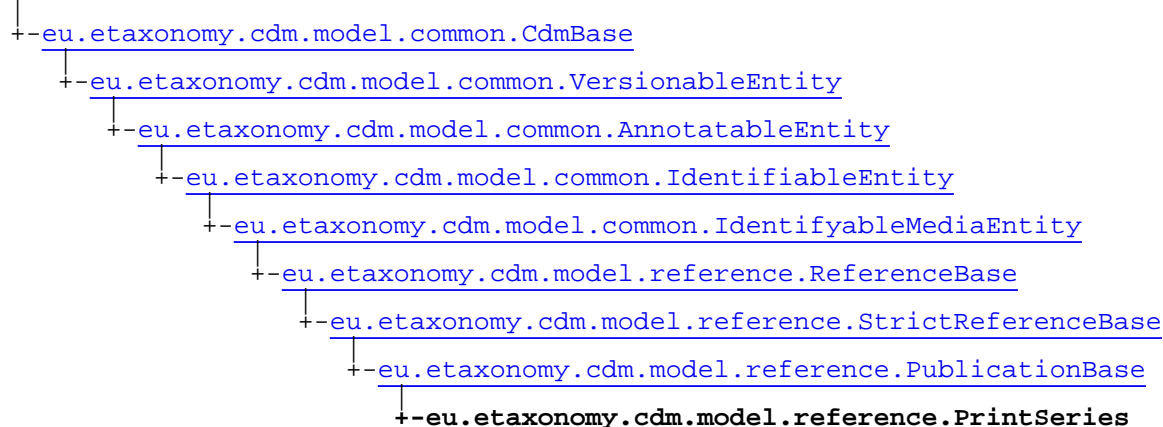
Parameters:

pages - pages

eu.etaxonomy.cdm.model.reference

Class PrintSeries

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

public class **PrintSeries**
 extends [PublicationBase](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	PrintSeries()
--------	-------------------------------

Method Summary

java.lang.String	generateTitle()
------------------	---------------------------------

java.lang.String	getSeries()
------------------	-----------------------------

void	setSeries(java.lang.String series)
------	--

Methods inherited from class [eu.etaxonomy.cdm.model.reference.PublicationBase](#)

[getPlacePublished](#), [getPublisher](#), [setPlacePublished](#), [setPublisher](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.StrictReferenceBase](#)

[getCitation](#), [getDatePublished](#), [getTitle](#), [getYear](#), [setDatePublished](#), [setTitle](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.ReferenceBase](#)

[getAuthorTeam](#), [getCitation](#), [getUri](#), [getYear](#), [isNomenclaturallyRelevant](#),
[setAuthorTeam](#), [setNomenclaturallyRelevant](#), [setUri](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#),
[getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#),
[removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#),
[setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#),
[removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#),
[getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#),
[firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#),
[firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#),
[removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#),
[setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#),
[wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

PrintSeries

```
public PrintSeries()
```

Methods

(continued from last page)

getSeries

```
public java.lang.String getSeries()
```

setSeries

```
public void setSeries(java.lang.String series)
```

Parameters:

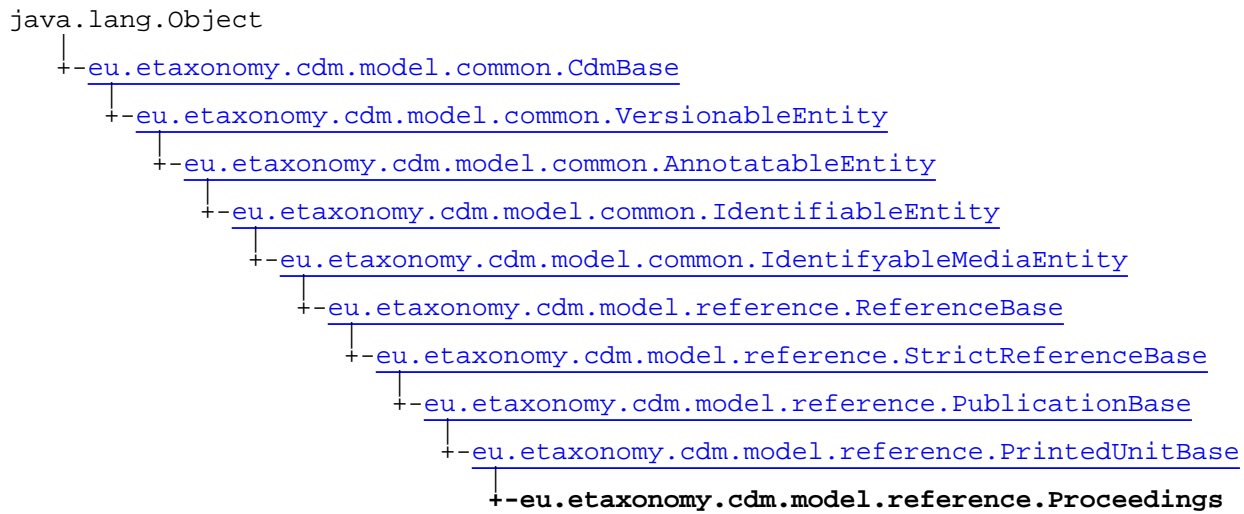
series - series

generateTitle

```
public java.lang.String generateTitle()
```

eu.etaxonomy.cdm.model.reference

Class Proceedings



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

public class **Proceedings**
 extends [PrintedUnitBase](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public [Proceedings](#)()

Method Summary

java.lang.String [generateTitle](#)()

java.lang.String [getOrganization](#)()

void [setOrganization](#)(java.lang.String organization)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.PrintedUnitBase](#)

[getEditor](#), [getInSeries](#), [getPages](#), [getVolume](#), [setEditor](#), [setInSeries](#), [setPages](#), [setVolume](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.PublicationBase](#)

[getPlacePublished](#), [getPublisher](#), [setPlacePublished](#), [setPublisher](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.StrictReferenceBase](#)

[getCitation](#), [getDatePublished](#), [getTitle](#), [getYear](#), [setDatePublished](#), [setTitle](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.ReferenceBase](#)

[getAuthorTeam](#), [getCitation](#), [getUri](#), [getYear](#), [isNomenclaturallyRelevant](#),
[setAuthorTeam](#), [setNomenclaturallyRelevant](#), [setUri](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#),
[getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#),
[removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#),
[setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#),
[removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#),
[getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#),
[firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#),
[firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#),
[removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#),
[setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#),
[wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

(continued from last page)

Proceedings

```
public Proceedings()
```

Methods

getOrganization

```
public java.lang.String getOrganization()
```

setOrganization

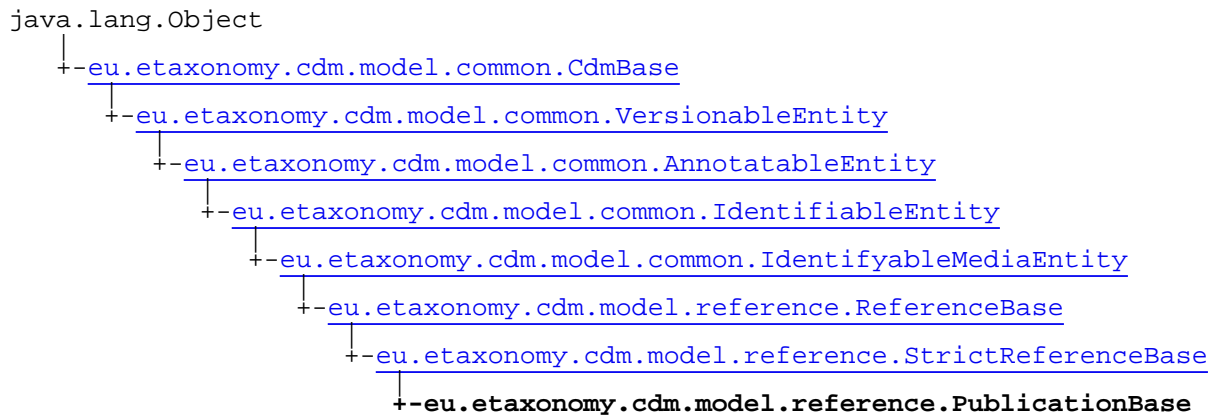
```
public void setOrganization(java.lang.String organization)
```

generateTitle

```
public java.lang.String generateTitle()
```

eu.etaxonomy.cdm.model.reference

Class PublicationBase



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

Direct Known Subclasses:

[CdDvd](#), [Database](#), [Journal](#), [Map](#), [PrintedUnitBase](#), [PrintSeries](#), [Report](#), [Thesis](#), [WebPage](#)

public abstract class **PublicationBase**
 extends [StrictReferenceBase](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	PublicationBase()
--------	-----------------------------------

Method Summary

java.lang.String	getPlacePublished()
------------------	-------------------------------------

java.lang.String	getPublisher()
------------------	--------------------------------

void	setPlacePublished (java.lang.String placePublished)
------	---

void	setPublisher (java.lang.String publisher)
------	---

Methods inherited from class [eu.etaxonomy.cdm.model.reference.StrictReferenceBase](#)

[getCitation](#), [getDatePublished](#), [getTitle](#), [getYear](#), [setDatePublished](#), [setTitle](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.ReferenceBase](#)

[getAuthorTeam](#), [getCitation](#), [getUri](#), [getYear](#), [isNomenclaturallyRelevant](#),
[setAuthorTeam](#), [setNomenclaturallyRelevant](#), [setUri](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#),
[getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#),
[removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#),
[setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#),
[removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#),
[getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#),
[firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#),
[firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#),
[removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#),
[setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#),
[wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

PublicationBase

```
public PublicationBase()
```

Methods

(continued from last page)

getPublisher

```
public java.lang.String getPublisher()
```

setPublisher

```
public void setPublisher(java.lang.String publisher)
```

getPlacePublished

```
public java.lang.String getPlacePublished()
```

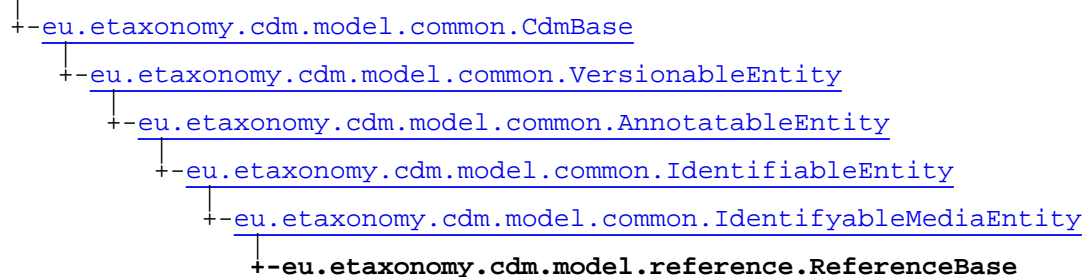
setPlacePublished

```
public void setPlacePublished(java.lang.String placePublished)
```

eu.etaxonomy.cdm.model.reference

Class ReferenceBase

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

Direct Known Subclasses:

[BibtexReference](#), [StrictReferenceBase](#)

public abstract class **ReferenceBase**

extends [IdentifiableMediaEntity](#)

A year() method is required to get the year of publication out of the datePublished field

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public [ReferenceBase](#)()

Method Summary

[Agent](#) [getAuthorTeam](#)()

java.lang.String [getCitation](#)()
returns a formatted string containing the entire reference citation including authors

java.lang.String [getUri](#)()

abstract
java.lang.String [getYear](#)()

boolean [isNomenclaturallyRelevant](#)()

void [setAuthorTeam](#)([Agent](#) authorTeam)

void [setNomenclaturallyRelevant](#)(boolean isNomenclaturallyRelevant)

void	setUri (java.lang.String uri)
------	---

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

ReferenceBase

```
public ReferenceBase()
```

Methods

(continued from last page)

getAuthorTeam

```
public Agent getAuthorTeam()
```

setAuthorTeam

```
public void setAuthorTeam(Agent authorTeam)
```

getUri

```
public java.lang.String getUri()
```

setUri

```
public void setUri(java.lang.String uri)
```

isNomenclaturallyRelevant

```
public boolean isNomenclaturallyRelevant()
```

setNomenclaturallyRelevant

```
public void setNomenclaturallyRelevant(boolean isNomenclaturallyRelevant)
```

Parameters:

isNomenclaturallyRelevant - isNomenclaturallyRelevant

getCitation

```
public java.lang.String getCitation()
```

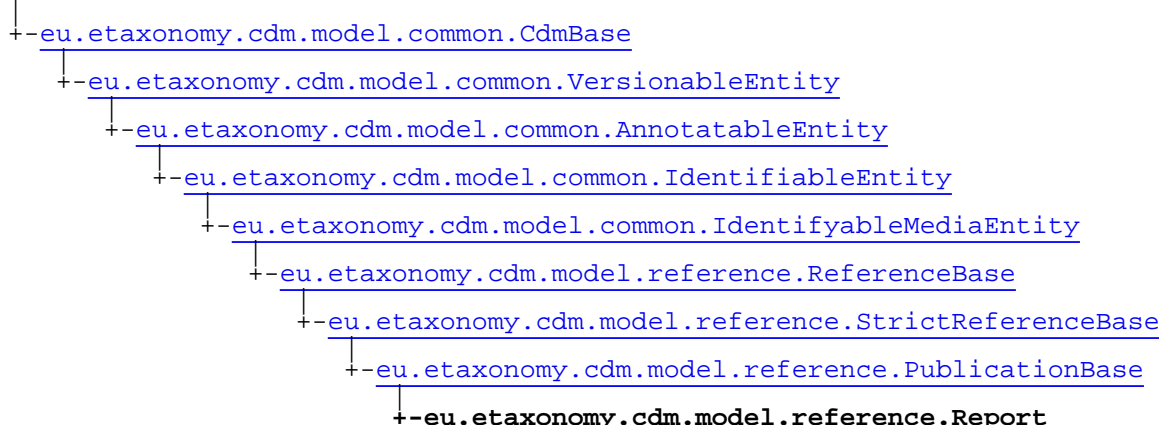
returns a formatted string containing the entire reference citation including authors

getYear

```
public abstract java.lang.String getYear()
```

eu.etaxonomy.cdm.model.reference Class Report

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

public class **Report**
extends [PublicationBase](#)

publisher is "institution" in BibTex ???

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	Report()
--------	--------------------------

Method Summary

java.lang.String	generateTitle()
------------------	---------------------------------

Institution	getInstitution()
-----------------------------	----------------------------------

void	setInstitution(Institution institution)
------	---

Methods inherited from class [eu.etaxonomy.cdm.model.reference.PublicationBase](#)

[getPlacePublished](#), [getPublisher](#), [setPlacePublished](#), [setPublisher](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.StrictReferenceBase](#)

[getCitation](#), [getDatePublished](#), [getTitle](#), [getYear](#), [setDatePublished](#), [setTitle](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.ReferenceBase](#)

[getAuthorTeam](#), [getCitation](#), [getUri](#), [getYear](#), [isNomenclaturallyRelevant](#),
[setAuthorTeam](#), [setNomenclaturallyRelevant](#), [setUri](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#),
[getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#),
[removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#),
[setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#),
[removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#),
[getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#),
[firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#),
[firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#),
[removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#),
[setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#),
[wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

Report

```
public Report()
```

Methods

(continued from last page)

getInstitution

```
public Institution getInstitution()
```

setInstitution

```
public void setInstitution(Institution institution)
```

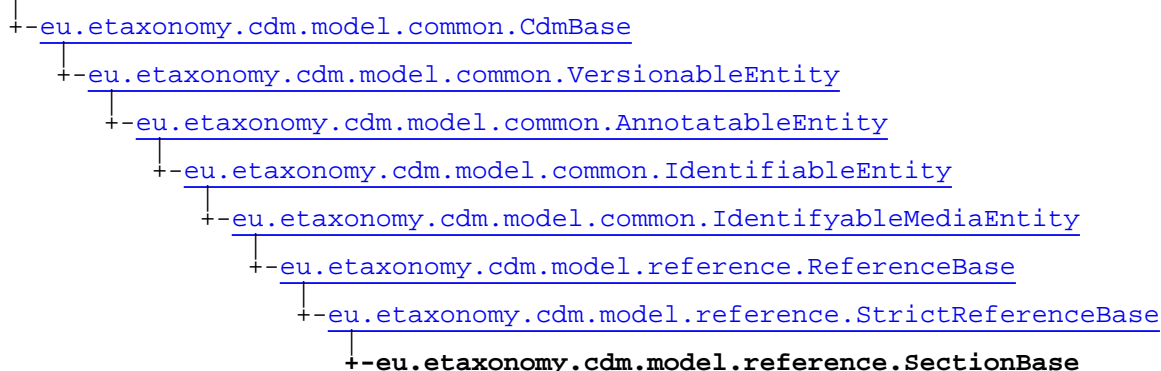
generateTitle

```
public java.lang.String generateTitle()
```

eu.etaxonomy.cdm.model.reference

Class SectionBase

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

Direct Known Subclasses:

[BookSection](#), [InProceedings](#)

public abstract class **SectionBase**
 extends [StrictReferenceBase](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public [SectionBase](#)()

Method Summary

java.lang.String [getPages](#)()

[PrintedUnitBase](#) [getPrintedUnit](#)()

void [setPages](#)(java.lang.String pages)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.StrictReferenceBase](#)

[getCitation](#), [getDatePublished](#), [getTitle](#), [getYear](#), [setDatePublished](#), [setTitle](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.ReferenceBase](#)

[getAuthorTeam](#), [getCitation](#), [getUri](#), [getYear](#), [isNomenclaturallyRelevant](#), [setAuthorTeam](#), [setNomenclaturallyRelevant](#), [setUri](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

SectionBase

```
public SectionBase()
```

Methods

getPages

```
public java.lang.String getPages()
```


(continued from last page)

setPages

```
public void setPages(java.lang.String pages)
```

Parameters:

pages - pages

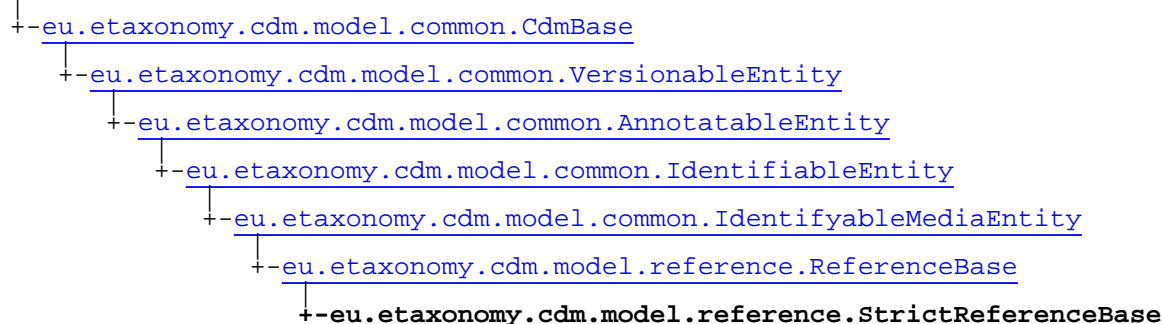
getPrintedUnit

```
public PrintedUnitBase getPrintedUnit()
```

eu.etaxonomy.cdm.model.reference

Class StrictReferenceBase

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

Direct Known Subclasses:

[Article](#), [ConferenceProceedings](#), [Generic](#), [Patent](#), [PersonalCommunication](#), [PublicationBase](#), [SectionBase](#)

public abstract class **StrictReferenceBase**

extends [ReferenceBase](#)

A year() method is required to get the year of publication out of the datePublished field

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	StrictReferenceBase()
--------	---------------------------------------

Method Summary

java.lang.String	getCitation() returns a formatted string containing the entire reference citation including authors
TimePeriod	getDatePublished()
java.lang.String	getTitle()
java.lang.String	getYear() transform the datePublished into a string representation for a year
void	setDatePublished(TimePeriod datePublished)
void	setTitle(java.lang.String title)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.ReferenceBase](#)

[getAuthorTeam](#), [getCitation](#), [getUri](#), [getYear](#), [isNomenclaturallyRelevant](#),
[setAuthorTeam](#), [setNomenclaturallyRelevant](#), [setUri](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#),
[getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#),
[removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#),
[setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#),
[removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#),
[getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#),
[firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#),
[firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#),
[removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#),
[setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#),
[wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

StrictReferenceBase

```
public StrictReferenceBase()
```

Methods

(continued from last page)

getTitle

```
public java.lang.String getTitle()
```

setTitle

```
public void setTitle(java.lang.String title)
```

getDatePublished

```
public TimePeriod getDatePublished()
```

setDatePublished

```
public void setDatePublished(TimePeriod datePublished)
```

getCitation

```
public java.lang.String getCitation()
```

returns a formatted string containing the entire reference citation including authors

getYear

```
public java.lang.String getYear()
```

transform the datePublished into a string representation for a year

eu.etaxonomy.cdm.model.reference

Class Thesis

```

java.lang.Object
├── eu.etaxonomy.cdm.model.common.CdmBase
│   ├── eu.etaxonomy.cdm.model.common.VersionableEntity
│   │   ├── eu.etaxonomy.cdm.model.common.AnnotatableEntity
│   │   │   ├── eu.etaxonomy.cdm.model.common.IdentifiableEntity
│   │   │   │   ├── eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity
│   │   │   │   │   ├── eu.etaxonomy.cdm.model.reference.ReferenceBase
│   │   │   │   │   │   ├── eu.etaxonomy.cdm.model.reference.StrictReferenceBase
│   │   │   │   │   │   │   ├── eu.etaxonomy.cdm.model.reference.PublicationBase
│   │   │   │   │   │   │   │   └── eu.etaxonomy.cdm.model.reference.Thesis

```

All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

```

public class Thesis
extends PublicationBase

```

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	Thesis()
--------	--------------------------

Method Summary

java.lang.String	generateTitle()
------------------	---------------------------------

Institution	getSchool()
-----------------------------	-----------------------------

void	setSchool(Institution school)
------	---

Methods inherited from class [eu.etaxonomy.cdm.model.reference.PublicationBase](#)

[getPlacePublished](#), [getPublisher](#), [setPlacePublished](#), [setPublisher](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.StrictReferenceBase](#)

[getCitation](#), [getDatePublished](#), [getTitle](#), [getYear](#), [setDatePublished](#), [setTitle](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.ReferenceBase](#)

[getAuthorTeam](#), [getCitation](#), [getUri](#), [getYear](#), [isNomenclaturallyRelevant](#),
[setAuthorTeam](#), [setNomenclaturallyRelevant](#), [setUri](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#),
[getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#),
[removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#),
[setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#),
[removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#),
[getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#),
[firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#),
[firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#),
[removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#),
[setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`,
`wait`

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

Thesis

```
public Thesis()
```

Methods

(continued from last page)

getSchool

```
public Institution getSchool()
```

setSchool

```
public void setSchool(Institution school)
```

Parameters:

school - school

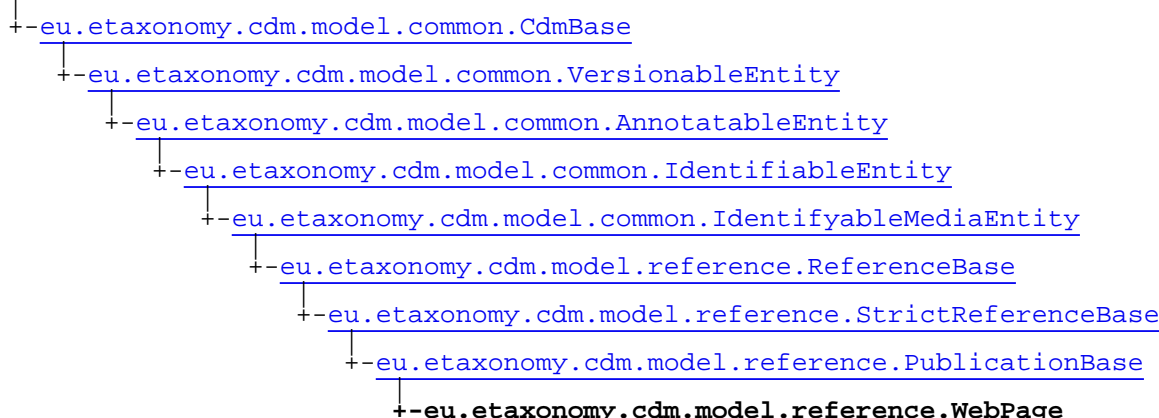
generateTitle

```
public java.lang.String generateTitle()
```

eu.etaxonomy.cdm.model.reference

Class WebPage

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#), [IMediaDocumented](#)

public class **WebPage**
 extends [PublicationBase](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public [WebPage\(\)](#)

Method Summary

java.lang.String [generateTitle\(\)](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.PublicationBase](#)

[getPlacePublished](#), [getPublisher](#), [setPlacePublished](#), [setPublisher](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.StrictReferenceBase](#)

[getCitation](#), [getDatePublished](#), [getTitle](#), [getYear](#), [setDatePublished](#), [setTitle](#)

Methods inherited from class [eu.etaxonomy.cdm.model.reference.ReferenceBase](#)

[getAuthorTeam](#), [getCitation](#), [getUri](#), [getYear](#), [isNomenclaturallyRelevant](#),
[setAuthorTeam](#), [setNomenclaturallyRelevant](#), [setUri](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifyableMediaEntity](#)

[addMedia](#), [getMedia](#), [removeMedia](#), [setMedia](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IMediaDocumented](#)

[getMedia](#)

Constructors

WebPage

```
public WebPage()
```

Methods

generateTitle

```
public java.lang.String generateTitle()
```

Package

eu.etaxonomy.cdm.model.taxon

Package: "taxon"

Provides classes for taxonomy including synonymy and concept synonymy.

Related Documentation

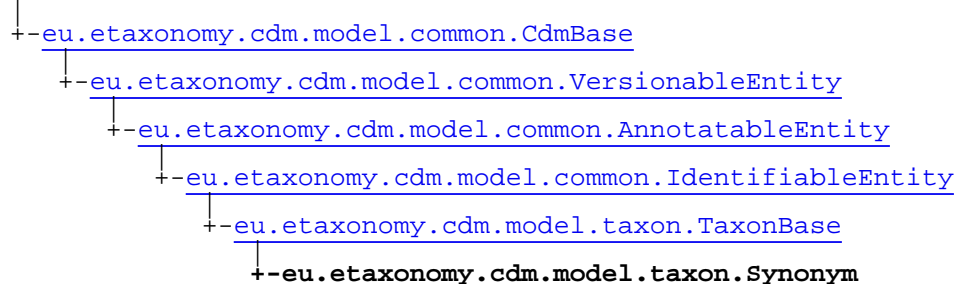
- [TCS schema](#)
- [TDWG Taxon Concept LSID Ontology](#)

UML Diagrams

Taxon

eu.etaxonomy.cdm.model.taxon Class Synonym

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#)

public class **Synonym**
extends [TaxonBase](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public [Synonym](#)()

Method Summary

void [addSynonymRelation](#)([SynonymRelationship](#) synonymRelation)

java.util.Set [getAcceptedTaxa](#)()

[SynonymRelationshipType](#) [getRelationType](#)([Taxon](#) t)
Return the synonymy relationship type for the relation to a given accepted taxon.

java.util.Set [getSynonymRelations](#)()

static [Synonym](#) [newInstance](#)([TaxonNameBase](#) taxonName, [ReferenceBase](#) sec)

void [removeSynonymRelation](#)([SynonymRelationship](#) synonymRelation)

void [setSynonymRelations](#)(java.util.Set synonymRelations)

Methods inherited from class [eu.etaxonomy.cdm.model.taxon.TaxonBase](#)

[generateTitle](#), [getName](#), [getSec](#), [isDoubtful](#), [isSaveable](#), [setDoubtful](#), [setName](#), [setSec](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Constructors

Synonym

```
public Synonym()
```

Methods

NewInstance

```
public static Synonym NewInstance(TaxonNameBase taxonName,
    ReferenceBase sec)
```

getSynonymRelations

```
public java.util.Set getSynonymRelations()
```

setSynonymRelations

```
protected void setSynonymRelations(java.util.Set synonymRelations)
```

addSynonymRelation

```
public void addSynonymRelation(SynonymRelationship synonymRelation)
```

removeSynonymRelation

```
public void removeSynonymRelation(SynonymRelationship synonymRelation)
```

getAcceptedTaxa

```
public java.util.Set getAcceptedTaxa()
```

getRelationType

```
public SynonymRelationshipType getRelationType(Taxon t)
```

Return the synonymy relationship type for the relation to a given accepted taxon. If no relation exists to that taxon return null.

Parameters:

t

Returns:

eu.etaxonomy.cdm.model.taxon Class SynonymRelationship

```

java.lang.Object
  |
  +- eu.etaxonomy.cdm.model.common.CdmBase
    |
    +- eu.etaxonomy.cdm.model.common.VersionableEntity
      |
      +- eu.etaxonomy.cdm.model.common.AnnotatableEntity
        |
        +- eu.etaxonomy.cdm.model.common.ReferencedEntityBase
          |
          +- eu.etaxonomy.cdm.model.taxon.SynonymRelationship
  
```

All Implemented Interfaces:

java.io.Serializable, [IReferencedEntity](#)

```

public class SynonymRelationship
extends ReferencedEntityBase
  
```

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

protected	SynonymRelationship (Synonym synonym, Taxon taxon, SynonymRelationshipType type)
-----------	---

Method Summary

Taxon	getAcceptedTaxon()
-----------------------	------------------------------------

Synonym	getSynonym()
-------------------------	------------------------------

SynonymRelationshipType	getType()
---	---------------------------

Methods inherited from class [eu.etaxonomy.cdm.model.common.ReferencedEntityBase](#)

[getCitation](#), [getCitationMicroReference](#), [getOriginalNameString](#), [setCitation](#), [setCitationMicroReference](#), [setOriginalNameString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Constructors

SynonymRelationship

```
protected SynonymRelationship(Synonym synoynm,  
                               Taxon taxon,  
                               SynonymRelationshipType type)
```

Methods

getAcceptedTaxon

```
public Taxon getAcceptedTaxon()
```

getType

```
public SynonymRelationshipType getType()
```

getSynonym

```
public Synonym getSynonym()
```

eu.etaxonomy.cdm.model.taxon Class SynonymRelationshipType

```

java.lang.Object
  +- eu.etaxonomy.cdm.model.common.CdmBase
    +- eu.etaxonomy.cdm.model.common.VersionableEntity
      +- eu.etaxonomy.cdm.model.common.TermBase
        +- eu.etaxonomy.cdm.model.common.definedTermBase
          +- eu.etaxonomy.cdm.model.common.OrderedTermBase
            +- eu.etaxonomy.cdm.model.common.RelationshipTermBase
              +- eu.etaxonomy.cdm.model.taxon.SynonymRelationshipType
  
```

All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#), java.lang.Comparable

```

public class SynonymRelationshipType
extends RelationshipTermBase
  
```

Fields inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[orderIndex](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.definedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	SynonymRelationshipType ()
public	SynonymRelationshipType (java.lang.String term, java.lang.String label, boolean symmetric, boolean transitive)

Method Summary

static SynonymRelationshipType	HETEROTYPIC_SYNONYM_OF ()
static SynonymRelationshipType	HOMOTYPIC_SYNONYM_OF ()
static SynonymRelationshipType	PARTIAL_SYNONYM_OF ()
static SynonymRelationshipType	PRO_PARTE_SYNONYM_OF ()

static SynonymRelationshipType pe	SYNONYM_OF()
---	------------------------------

Methods inherited from class [eu.etaxonomy.cdm.model.common.RelationshipTermBase](#)

[addInverseRepresentation](#), [addRepresentation](#), [getInverseDescription](#),
[getInverseDescription](#), [getInverseLabel](#), [getInverseLabel](#), [getInverseRepresentation](#),
[getInverseRepresentations](#), [isSymmetric](#), [isTransitive](#), [readCsvLine](#),
[removeInverseRepresentation](#), [setInverseRepresentations](#), [setSymmetric](#), [setTransitive](#),
[writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[compareTo](#), [decreaseIndex](#), [equals](#), [incrementIndex](#), [isHigher](#), [isLower](#), [setVocabulary](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#),
[getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#),
[readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#),
[setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#),
[setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#),
[getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#),
[setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#),
[getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#),
[firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#),
[firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#),
[removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#),
[setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#),
[wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IDefTerm](#)

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Methods inherited from interface [java.lang.Comparable](#)

[compareTo](#)

(continued from last page)

Constructors

SynonymRelationshipType

```
public SynonymRelationshipType()
```

SynonymRelationshipType

```
public SynonymRelationshipType(java.lang.String term,  
                               java.lang.String label,  
                               boolean symmetric,  
                               boolean transitive)
```

Methods

SYNONYM_OF

```
public final static SynonymRelationshipType SYNONYM_OF()
```

PRO_PARTE_SYNONYM_OF

```
public final static SynonymRelationshipType PRO_PARTE_SYNONYM_OF()
```

PARTIAL_SYNONYM_OF

```
public final static SynonymRelationshipType PARTIAL_SYNONYM_OF()
```

HOMOTYPIC_SYNONYM_OF

```
public final static SynonymRelationshipType HOMOTYPIC_SYNONYM_OF()
```

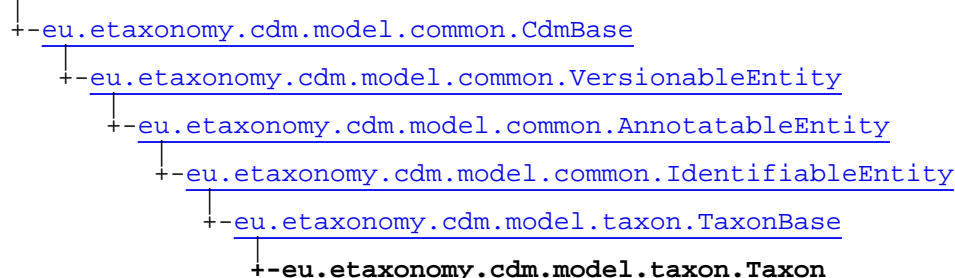
HETEROTYPIC_SYNONYM_OF

```
public final static SynonymRelationshipType HETEROTYPIC_SYNONYM_OF()
```

eu.etaxonomy.cdm.model.taxon

Class Taxon

java.lang.Object



All Implemented Interfaces:

java.lang.Iterable, java.io.Serializable, [IOOriginalSource](#)

public class **Taxon**

extends [TaxonBase](#)

implements [IOOriginalSource](#), java.io.Serializable, java.lang.Iterable

An accepted potential taxon defined by the combination of a Name and a sec reference java.lang.Iterable interface is supported to iterate through taxonomic children

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public [Taxon](#)()

Method Summary

void [addDescriptions](#)([TaxonDescription](#) description)

void [addMisappliedName](#)([Taxon](#) toTaxon, [ReferenceBase](#) citation, java.lang.String microcitation)

void [addSynonym](#)([Synonym](#) synonym, [SynonymRelationshipType](#) synonymType)
 ass a synonym to this taxon (a taxon can have multiple synonyms that should be proparte synonyms then!) The [SynonymRelationship](#) constructor immediately adds a relationship instance to both the synonym and taxon instance!

void [addSynonymRelation](#)([SynonymRelationship](#) synonymRelation)

void [addTaxonomicChild](#)([Taxon](#) child, [ReferenceBase](#) citation, java.lang.String microcitation)

void [addTaxonRelation](#)([TaxonRelationship](#) rel)

void	addTaxonRelation (Taxon toTaxon, TaxonRelationshipType type, ReferenceBase citation, java.lang.String microcitation)
java.util.Set	getDescriptions ()
java.util.List	getHeterotypicSynonymyGroups ()
HomotypicalGroup	getHomotypicGroup ()
java.util.List	getHomotypicSynonyms ()
java.util.Set	getRelationsFromThisTaxon ()
java.util.Set	getRelationsToThisTaxon ()
java.util.Set	getSynonymNames ()
java.util.Set	getSynonymRelations ()
java.util.Set	getSynonyms ()
java.util.Set	getSynonymsSortedByType ()
java.util.Set	getTaxonomicChildren ()
Taxon	getTaxonomicParent ()
java.util.Set	getTaxonRelations ()
boolean	hasTaxonomicChildren ()
java.util.Iterator	iterator ()
static Taxon	newInstance (TaxonNameBase taxonName, ReferenceBase sec)
void	removeDescriptions (DescriptionBase description)
void	removeSynonymRelation (SynonymRelationship synonymRelation)
void	removeTaxonRelation (TaxonRelationship rel)
void	setDescriptions (java.util.Set descriptions)
void	setRelationsFromThisTaxon (java.util.Set relationsFromThisTaxon)
void	setRelationsToThisTaxon (java.util.Set relationsToThisTaxon)
void	setSynonymRelations (java.util.Set synonymRelations)

void	setTaxonomicParent (Taxon parent, ReferenceBase citation, java.lang.String microcitation)
------	--

Methods inherited from class [eu.etaxonomy.cdm.model.taxon.TaxonBase](#)

[generateTitle](#), [getName](#), [getSec](#), [isDoubtful](#), [isSaveable](#), [setDoubtful](#), [setName](#), [setSec](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Methods inherited from interface [java.lang.Iterable](#)

[iterator](#)

Constructors

Taxon

public **Taxon**()

Methods

(continued from last page)

NewInstance

```
public static Taxon NewInstance(TaxonNameBase taxonName,  
    ReferenceBase sec)
```

getDescriptions

```
public java.util.Set getDescriptions()
```

setDescriptions

```
protected void setDescriptions(java.util.Set descriptions)
```

addDescriptions

```
public void addDescriptions(TaxonDescription description)
```

removeDescriptions

```
public void removeDescriptions(DescriptionBase description)
```

getSynonymRelations

```
public java.util.Set getSynonymRelations()
```

setSynonymRelations

```
protected void setSynonymRelations(java.util.Set synonymRelations)
```

addSynonymRelation

```
public void addSynonymRelation(SynonymRelationship synonymRelation)
```

removeSynonymRelation

```
public void removeSynonymRelation(SynonymRelationship synonymRelation)
```

(continued from last page)

getRelationsFromThisTaxon

```
public java.util.Set getRelationsFromThisTaxon()
```

setRelationsFromThisTaxon

```
protected void setRelationsFromThisTaxon(java.util.Set relationsFromThisTaxon)
```

getRelationsToThisTaxon

```
public java.util.Set getRelationsToThisTaxon()
```

setRelationsToThisTaxon

```
protected void setRelationsToThisTaxon(java.util.Set relationsToThisTaxon)
```

getTaxonRelations

```
public java.util.Set getTaxonRelations()
```

removeTaxonRelation

```
public void removeTaxonRelation(TaxonRelationship rel)
```

addTaxonRelation

```
public void addTaxonRelation(TaxonRelationship rel)
```

addTaxonRelation

```
public void addTaxonRelation(Taxon toTaxon,  
    TaxonRelationshipType type,  
    ReferenceBase citation,  
    java.lang.String microcitation)
```

addMisappliedName

```
public void addMisappliedName(Taxon toTaxon,  
    ReferenceBase citation,  
    java.lang.String microcitation)
```

addTaxonomicChild

```
public void addTaxonomicChild(Taxon child,  
    ReferenceBase citation,  
    java.lang.String microcitation)
```

getTaxonomicParent

```
public Taxon getTaxonomicParent()
```

Returns:

setTaxonomicParent

```
public void setTaxonomicParent(Taxon parent,  
    ReferenceBase citation,  
    java.lang.String microcitation)
```

Parameters:

parent
citation
microcitation

getTaxonomicChildren

```
public java.util.Set getTaxonomicChildren()
```

Returns:

hasTaxonomicChildren

```
public boolean hasTaxonomicChildren()
```

Returns:

getSynonyms

```
public java.util.Set getSynonyms()
```

getSynonymsSortedByType

```
public java.util.Set getSynonymsSortedByType()
```

(continued from last page)

getSynonymNames

```
public java.util.Set getSynonymNames()
```

addSynonym

```
public void addSynonym(Synonym synonym,  
    SynonymRelationshipType synonymType)
```

ass a synonym to this taxon (a taxon can have multiple synonyms that should be proparte synonyms then!) The [SynonymRelationship](#) constructor immediatly adds a relationship instance to both the synonym and taxon instance!

Parameters:

synonym
synonymType

iterator

```
public java.util.Iterator iterator()
```

getHomotypicGroup

```
public HomotypicalGroup getHomotypicGroup()
```

getHomotypicSynonyms

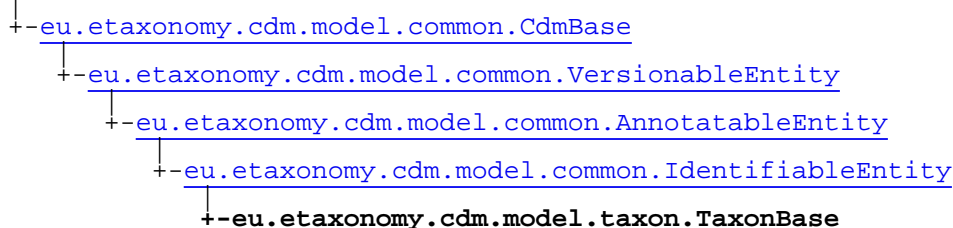
```
public java.util.List getHomotypicSynonyms()
```

getHeterotypicSynonymyGroups

```
public java.util.List getHeterotypicSynonymyGroups()
```

eu.etaxonomy.cdm.model.taxon Class TaxonBase

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IOriginalSource](#)

Direct Known Subclasses:

[Synonym](#), [Taxon](#)

public abstract class **TaxonBase**
extends [IdentifiableEntity](#)

{unique name within view/treatment}

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	TaxonBase()
--------	-----------------------------

Method Summary

java.lang.String	generateTitle()
------------------	---------------------------------

TaxonNameBase	getName()
-------------------------------	---------------------------

ReferenceBase	getSec()
-------------------------------	--------------------------

boolean	isDoubtful()
---------	------------------------------

boolean	isSaveable()
---------	------------------------------

void	setDoubtful(boolean isDoubtful)
------	---

void	setName(TaxonNameBase name)
------	---

void	setSec(ReferenceBase sec)
------	---

Methods inherited from class [eu.etaxonomy.cdm.model.common.IdentifiableEntity](#)

[addExtension](#), [addRights](#), [addSource](#), [generateTitle](#), [getExtensions](#), [getLsid](#), [getRights](#), [getSources](#), [getTitleCache](#), [isProtectedTitleCache](#), [removeExtension](#), [removeRights](#), [removeSource](#), [setExtensions](#), [setLsid](#), [setProtectedTitleCache](#), [setRights](#), [setSources](#), [setTitleCache](#), [setTitleCache](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IOriginalSource](#)

[addSource](#), [getSources](#), [removeSource](#)

Constructors

TaxonBase

```
public TaxonBase()
```

Methods

generateTitle

```
public java.lang.String generateTitle()
```

getName

```
public TaxonNameBase getName()
```

(continued from last page)

setName

```
public void setName(TaxonNameBase name)
```

isDoubtful

```
public boolean isDoubtful()
```

setDoubtful

```
public void setDoubtful(boolean isDoubtful)
```

getSec

```
public ReferenceBase getSec()
```

setSec

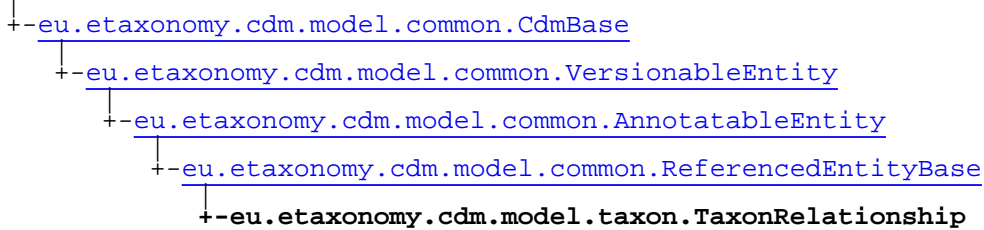
```
public void setSec(ReferenceBase sec)
```

isSaveable

```
public boolean isSaveable()
```

eu.etaxonomy.cdm.model.taxon Class TaxonRelationship

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IReferencedEntity](#)

```

public class TaxonRelationship
extends ReferencedEntityBase

```

Fields inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[annotations](#), [markers](#)

Constructor Summary

public	TaxonRelationship()
--------	-------------------------------------

Method Summary

Taxon	getFromTaxon()
-----------------------	--------------------------------

Taxon	getToTaxon()
-----------------------	------------------------------

TaxonRelationshipType	getType()
---------------------------------------	---------------------------

void	setFromTaxon(Taxon fromTaxon)
------	---

void	setToTaxon(Taxon toTaxon)
------	---

void	setType(TaxonRelationshipType type)
------	---

Methods inherited from class [eu.etaxonomy.cdm.model.common.ReferencedEntityBase](#)

[getCitation](#), [getCitationMicroReference](#), [getOriginalNameString](#), [setCitation](#), [setCitationMicroReference](#), [setOriginalNameString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.AnnotatableEntity](#)

[addAnnotations](#), [addMarker](#), [getAnnotations](#), [getMarkers](#), [removeAnnotations](#), [removeMarker](#), [setAnnotations](#), [setMarkers](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface [eu.etaxonomy.cdm.model.common.IReferencedEntity](#)

[getCitation](#)

Constructors

TaxonRelationship

```
public TaxonRelationship()
```

Methods

getType

```
public TaxonRelationshipType getType()
```

setType

```
public void setType(TaxonRelationshipType type)
```

getFromTaxon

```
public Taxon getFromTaxon()
```

setFromTaxon

```
public void setFromTaxon(Taxon fromTaxon)
```

getToTaxon

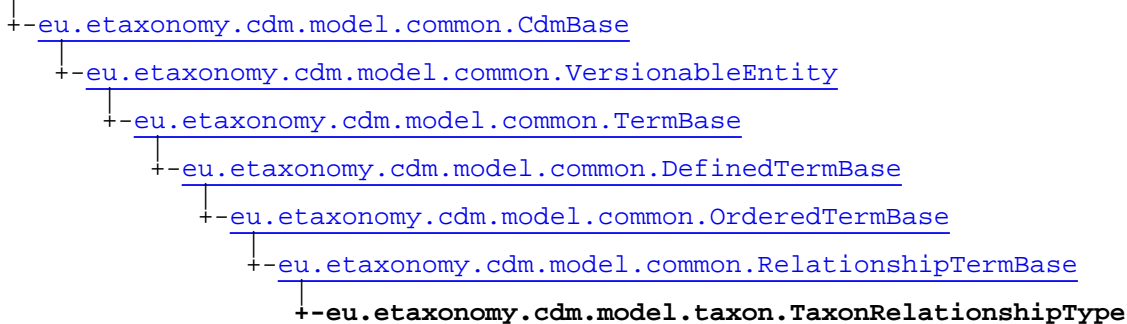
```
public Taxon getToTaxon()
```

setToTaxon

```
public void setToTaxon(Taxon toTaxon)
```

eu.etaxonomy.cdm.model.taxon Class TaxonRelationshipType

java.lang.Object



All Implemented Interfaces:

java.io.Serializable, [IDefTerm](#), java.lang.Comparable

public class **TaxonRelationshipType**
extends [RelationshipTermBase](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[orderIndex](#)

Fields inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[vocabulary](#), [vocabularyStore](#)

Constructor Summary

public	TaxonRelationshipType ()
public	TaxonRelationshipType (java.lang.String term, java.lang.String label, boolean symmetric, boolean transitive)

Method Summary

static TaxonRelationshipType	CONGRUENTTO ()
static TaxonRelationshipType	CONTRADICTION ()
static TaxonRelationshipType	DOESNOTEXCLUDE ()
static TaxonRelationshipType	DOESNOTOVERLAP ()
static TaxonRelationshipType	EXCLUDES ()

static TaxonRelationshipType	getUUID(java.util.UUID uuid)
static TaxonRelationshipType	INCLUDES()
static TaxonRelationshipType	INVALIDDESIGNATIONFOR()
static TaxonRelationshipType	MISAPPLIEDNAMEFOR()
static TaxonRelationshipType	NOTCONGRUENTTO()
static TaxonRelationshipType	NOTINCLUDEDIN()
static TaxonRelationshipType	OVERLAPS()
static TaxonRelationshipType	TAXONOMICALLY_INCLUDED_IN()

Methods inherited from class [eu.etaxonomy.cdm.model.common.RelationshipTermBase](#)

[addInverseRepresentation](#), [addRepresentation](#), [getInverseDescription](#), [getInverseDescription](#), [getInverseLabel](#), [getInverseLabel](#), [getInverseRepresentation](#), [getInverseRepresentations](#), [isSymmetric](#), [isTransitive](#), [readCsvLine](#), [removeInverseRepresentation](#), [setInverseRepresentations](#), [setSymmetric](#), [setTransitive](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.OrderedTermBase](#)

[compareTo](#), [decreaseIndex](#), [equals](#), [incrementIndex](#), [isHigher](#), [isLower](#), [setVocabulary](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.DefinedTermBase](#)

[addIncludes](#), [addMedia](#), [findByUuid](#), [getGeneralizationOf](#), [getIncludes](#), [getKindOf](#), [getMedia](#), [getPartOf](#), [getPersistentVocabulary](#), [getVocabulary](#), [readCsvLine](#), [readCsvLine](#), [removeIncludes](#), [removeMedia](#), [setGeneralizationOf](#), [setIncludes](#), [setKindOf](#), [setMedia](#), [setPartOf](#), [setPersistentVocabulary](#), [setVocabulary](#), [setVocabularyStore](#), [writeCsvLine](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.TermBase](#)

[addRepresentation](#), [equals](#), [getDescription](#), [getDescription](#), [getLabel](#), [getLabel](#), [getRepresentation](#), [getRepresentations](#), [getUri](#), [removeRepresentation](#), [setRepresentations](#), [setUri](#), [toString](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.VersionableEntity](#)

[getNextVersion](#), [getPreviousVersion](#), [getUpdated](#), [getUpdatedBy](#), [getValidFrom](#), [getValidTo](#), [setNextVersion](#), [setPreviousVersion](#), [setUpdated](#), [setUpdatedBy](#)

Methods inherited from class [eu.etaxonomy.cdm.model.common.CdmBase](#)

[addPropertyChangeListener](#), [addPropertyChangeListener](#), [equals](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [firePropertyChange](#), [getCreated](#), [getCreatedBy](#), [getId](#), [getUuid](#), [hasListeners](#), [removePropertyChangeListener](#), [removePropertyChangeListener](#), [setCreated](#), [setCreatedBy](#), [setId](#), [setUuid](#), [toString](#)

Methods inherited from class `java.lang.Object`

`clone`, `equals`, `finalize`, `getClass`, `hashCode`, `notify`, `notifyAll`, `toString`, `wait`, `wait`, `wait`

Methods inherited from interface `eu.etaxonomy.cdm.model.common.IDefTerm`

[getVocabulary](#), [readCsvLine](#), [setVocabulary](#), [writeCsvLine](#)

Methods inherited from interface `java.lang.Comparable`

`compareTo`

Constructors

TaxonRelationshipType

```
public TaxonRelationshipType()
```

TaxonRelationshipType

```
public TaxonRelationshipType(java.lang.String term,
                             java.lang.String label,
                             boolean symmetric,
                             boolean transitive)
```

Methods

getUUID

```
public final static TaxonRelationshipType getUUID(java.util.UUID uuid)
```

TAXONOMICALLY_INCLUDED_IN

```
public final static TaxonRelationshipType TAXONOMICALLY_INCLUDED_IN()
```

MISAPPLIEDNAMEFOR

```
public final static TaxonRelationshipType MISAPPLIEDNAMEFOR()
```

INVALIDDESIGNATIONFOR

```
public final static TaxonRelationshipType INVALIDDESIGNATIONFOR()
```

CONTRADICTION

```
public final static TaxonRelationshipType CONTRADICTION()
```

CONGRUENTTO

```
public final static TaxonRelationshipType CONGRUENTTO()
```

INCLUDES

```
public final static TaxonRelationshipType INCLUDES()
```

OVERLAPS

```
public final static TaxonRelationshipType OVERLAPS()
```

EXCLUDES

```
public final static TaxonRelationshipType EXCLUDES()
```

DOESNOTEXCLUDE

```
public final static TaxonRelationshipType DOESNOTEXCLUDE()
```

DOESNOTOVERLAP

```
public final static TaxonRelationshipType DOESNOTOVERLAP()
```

NOTINCLUDEDIN

```
public final static TaxonRelationshipType NOTINCLUDEDIN()
```

NOTCONGRUENTTO

```
public final static TaxonRelationshipType NOTCONGRUENTTO()
```

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