Celerio

XSD documentation

Jaxio

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Jaxio

v3.0.49-SNAPSHOT

Abstract

Configuring your project.

Legal notice

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Chapter 1. XSD defaults

Simple types

`MethodConvention`

Table 1.1. `MethodConvention` default parameters

Name	Documentation	prefix	suffix
`GET`		get	
`SET`		set	
`ADD`		add	
`EDIT`		edit	
`CONTAINS`		contains	
`GET_BY`		getBy	
`DELETE_BY`		deleteBy	
`REMOVE`		remove	
`REMOVE_ALL`		removeAll	
`HAS`		is	Set
`GET_LOCALIZED`		get	Localized
`RANDOM_GETTER`		get	Random

`EnumType`

Table 1.2. `EnumType` default parameters

Name	Documentation
`ORDINAL`	Persist enumerated type property or field as an integer
`STRING`	Persist enumerated type property or field as a string
`CUSTOM`	Persisted via a custom user type

`Module`

Table 1.3. `Module` default parameters

Name	Documentation
SPRING3	
PACK_MVC_3	
JAVAX_VALIDATION	
PRODUCE_HAS_METHODS	
ENABLE_FK_COLUMN_SETTER	
PRODUCE_TO_DISPLAY_STRING_METHOD	
COPYABLE	
CHAR_PADDING	
PRIMEFACES_FILE_HANDLER	

ClassType

Table 1.4. ClassType default parameters

Name	Documentation	prefix	suffix	subPackage	generated-Package
model			GeneratedPack-age.Model		
primaryKey		Pk	GeneratedPack-age.Model		
dao		Dao	GeneratedPack-age.Dao		
formatter		Formatter	GeneratedPack-age.Formatter		
hibernate		DaoImpl	GeneratedPack-age.Hibernate		
manager		Service	GeneratedPack-age.Manager		
managerIm-pl		ServiceImpl	GeneratedPack-age.ManagerIm pl		
validator		Validator	GeneratedPack-age.WebModel Validator		
memory		Memory	GeneratedPack-age.Memory		
enumModel			GeneratedPack-age.EnumMode l		
enumItems		Items	GeneratedPack-age.EnumItems		
modelGen-erator		Generator	GeneratedPack-age.Manager		
controller		Controller	GeneratedPack-		

Name	Documentation	prefix	suffix	subPackage	generated-Package
			age.WebController		
controllerWithPathVariable		ControllerWithPathVariable	GeneratedPackage.WebController		
restController		RestController	GeneratedPackage.RestController		
searchForm		SearchForm	GeneratedPackage.WebModelSearchForm		
formService		FormService	GeneratedPackage.WebController		
formValidator		FormValidator	GeneratedPackage.WebController		
searchController		SearchController	GeneratedPackage.WebController		
webSupport		WebSupport	GeneratedPackage.WebController		
webModel			GeneratedPackage.WebModel		
webModelConverter		Converter	GeneratedPackage.WebModelConverter		
webConverter		Converter	GeneratedPackage.WebConverter		
webModelItems		Items	GeneratedPackage.WebModelItems		
wicket			GeneratedPackage.Wicket		

CascadeType

Defines the set of cascadable operations that are propagated to the associated entity. The value <code>cascade=ALL<code> is equivalent to <code>cascade={PERSIST, MERGE, REMOVE, REFRESH}</code>. @since Java Persistence 1.0

Table 1.5. CascadeType default parameters

Name	Documentation
ALL	Cascade all operations
PERSIST	Cascade persist operation
MERGE	Cascade merge operation
REMOVE	Cascade remove operation
REFRESH	Cascade refresh operation

GenerationType

Defines the types of primary key generation. @since Java Persistence 1.0

Table 1.6. GenerationType default parameters

Name	Documentation
TABLE	Indicates that the persistence provider must assign primary keys for the entity using an underlying database table to ensure uniqueness.
SEQUENCE	Indicates that the persistence provider must assign primary keys for the entity using database sequence column.
IDENTITY	Indicates that the persistence provider must assign primary keys for the entity using database identity column.
AUTO	Indicates that the persistence provider should pick an appropriate strategy for the particular database. The <code>AUTO</code> generation strategy may expect a database resource to exist, or it may attempt to create one. A vendor may provide documentation on how to create such resources in the event that it does not support schema generation or cannot create the schema resource at runtime.

TableType

Table 1.7. TableType default parameters

Name	Documentation
TABLE	
VIEW	
ALIAS	not supported
SYNONYM	not supported

WellKnownFolder

Table 1.8. `WellKnownFolder` default parameters

Name	Documentation	folder	generatedFolder
JAVA		src/main/java	src/main/generated-java
JAVA_TEST		src/test/java	src/test/generated-java
WEBAPP		src/main/webapp	
WEBINF		src/ main/webapp/WEB-INF	
VIEWS		src/ main/ webapp/ WEB-INF/views	
FLOWS		src/ main/ webapp/WEB-INF/flows	src/ main/ webapp/ WEB-INF/flows-generated
RESOURCES		src/main/resources	src/main/resources
RESOURCES_TEST		src/test/resources	src/test/resources
LOCALIZATION		src/ main/re-sources/localization	
DO-MAIN_LOCALIZATIO N		src/main/resources/" + LOCALIZA-TION.getResourcePath() + "/" + Mod-el.getSubPackagePath() + "-generated	
SPRING		src/ main/resources/spring	
SPRING_TEST		src/test/resources/spring	
CEL-ERIO_LOCAL_TEMPL ATE		src/main/celerio/	
COLLISION		target/ maven-celerio-plugin/	
SQL		src/main/sql	
CONFIG		src/main/config	
SITE		src/site/	

`TrueFalse`

Table 1.9. `TrueFalse` default parameters

Name	Documentation
TRUE	
FALSE	

InheritanceType

Defines inheritance strategy options. @since Java Persistence 1.0

Table 1.10. InheritanceType default parameters

Name	Documentation
SINGLE_TABLE	A single table per class hierarchy
TABLE_PER_CLASS	A table per concrete entity class
JOINED	A strategy in which fields that are specific to a subclass are mapped to a separate table than the fields that are common to the parent class, and a join is performed to instantiate the subclass.

JdbcType

Table 1.11. JdbcType default parameters

Name	Documentation	logger	jdbcType
ARRAY	Not supported	Types.ARRAY	
BIGINT		Types.BIGINT	
BINARY		Types.BINARY	
BIT		Types.BIT	
BLOB		Types.BLOB	
BOOLEAN		Types.BOOLEAN	
CHAR		Types.CHAR	
CLOB		Types.CLOB	
DATALINK	Not supported	Types.DATALINK	
DATE		Types.DATE	
DECIMAL		Types.DECIMAL	
DISTINCT	Not supported	Types.DISTINCT	
DOUBLE		Types.DOUBLE	
FLOAT		Types.FLOAT	
INTEGER		Types.INTEGER	
JAVA_OBJECT		Types.JAVA_OBJECT	
LONGVARBINARY		Types.LONGVARBINARY	

Name	Documentation	logger	jdbcType
LONGVARCHAR		Types.LONGVARCHAR	
NUMERIC		Types.NUMERIC	
OTHER	Not supported	Types.OTHER	
REAL		Types.REAL	
REF		Types.REF	
SMALLINT		Types.SMALLINT	
STRUCT	Not supported	Types.STRUCT	
TIME		Types.TIME	
TIMESTAMP		Types.TIMESTAMP	
TINYINT		Types.TINYINT	
VARBINARY		Types.VARBINARY	
VARCHAR		Types.VARCHAR	
ROW_ID		Types.ROWID	
LONGNVARCHAR		Types.LONGNVARCHAR	
NCHAR		Types.NCHAR	
NCLOB		Types.NCLOB	
NVARCHAR		Types.NVARCHAR	
NULL	Not supported	Types.NULL	
SQLXML		Types.SQLXML	

GeneratedPackage

Table 1.12. GeneratedPackage default parameters

Name	Documentation	subPackage	rootPackage
AccountService		service.account	
Model		domain	
Context		context	
Dao		dao	
DaoSupport		dao.support	
Validation		validation	
ValidationImpl		validation.impl	
EmailService		service.email	
Hibernate		dao	
HibernateListener		dao.hibernate.listener	
HibernateSupport		dao.hibernate	
Jms		jms	

Name	Documentation	subPackage	rootPackage
Jmx		jmx	
Jwebunit		jwebunit	
Manager		service	
ManagerImpl		service	
ManagerSupport		service.support	
Memory		memory	
PasswordService		service.password	
Random		random	
ReminderService		service.reminder	
Root			
Scheduling		scheduling	
Security		security	
Service		service	
SignupService		service.signup	
Transaction		transaction	
Util		util	
Web		web	
WebAction		web.action	
WebContext		web.context	
WebController		web.controller	
RestController		web.controller	
WebModel		web.domain	
WebModelValidat-or		web.domain	
WebModelSupport		web.domain.support	
WebModelConvert-er		web.domain	
Formatter		formatter	
FormatterSupport		formatter.support	
WebConverter		web.converter	
WebModelItems		web.domain	
WebModelSearch-Form		web.domain	
WebFaces		web.faces	
WebFlow		web.flow	
WebFilter		web.filter	
WebInterceptor		web.interceptor	
WebListener		web.listener	
WebServlet		web.servlet	
WebUtil		web.util	
WebValidator		web.validator	
WebUi		web.ui	

Name	Documentation	subPackage	rootPackage
WebEl		web.ui.el	
GwtClient		web.client	
GwtShared		web.shared	
GwtServer		web.server	
Wicket		web.wicket	
WicketComponent		web.wicket.component	
WicketComponent-Form		web.wicket.component.form	
WicketListener		web.wicket.listener	
WicketPage		web.wicket.page	
WicketPanel		web.wicket.panel	
WicketSkin		web.wicket.skin	
WicketUtil		web.wicket.util	
EnumModel		domain	
EnumItems		web.domain	
Converter		converter	

AssociationDirection

Table 1.13. AssociationDirection default parameters

Name	Documentation
UNIDIRECTIONAL	
BIDIRECTIONAL	

FetchType

Defines strategies for fetching data from the database. The <code>EAGER</code> strategy is a requirement on the persistence provider runtime that data must be eagerly fetched. The <code>LAZY</code> strategy is a hint to the persistence provider runtime that data should be fetched lazily when it is first accessed. The implementation is permitted to eagerly fetch data for which the <code>LAZY</code> strategy hint has been specified. In particular, lazy fetching might only be available for {@link Basic} mappings for which property-based access is used. <pre> Example: @Basic(fetch=LAZY) protected String getName() { return name; } </pre> @since Java Persistence 1.0

Table 1.14. FetchType default parameters

Name	Documentation
LAZY	Defines that data can be lazily fetched
EAGER	Defines that data must be eagerly fetched

MappedType

Table 1.15. MappedType default parameters

Name	Documentation	javaType	fullJavaType	isNow
M_ARRAY		Array	java.sql.Array	
M_BIGDECIMAL		BigDecimal	java.math.BigDecimal	
M_BIGINTEGER		BigInteger	java.math.BigInteger	
M_BOOLEAN		Boolean	java.lang.Boolean	
M_BYTES		byte[]	byte[]	
M_CLOB		String	java.lang.String	
M_DOUBLE		Double	java.lang.Double	
M_FLOAT		Float	java.lang.Float	
M_BLOB		byte[]	byte[]	
M_INTEGER		Integer	java.lang.Integer	
M_LONG		Long	java.lang.Long	
M_REF		Ref	java.sql.Ref	
M_STRING		String	java.lang.String	
M_CHAR		Character	java.lang.Character	
M_BYTE		Byte	java.lang.Byte	
M_JODA_LOCALDATE		LocalDate	org.joda.time.LocalDate	
M_JODA_LOCALDATETIME		LocalDateTime	org.joda.time.LocalDateTime	
M_SQLDATE		java.sql.Date	java.sql.Date	
M_UTILDATE		Date	java.util.Date	
M_TIME		java.sql.Time	java.sql.Time	
M_TIMESTAMP		java.sql.Timestamp	java.sql.Timestamp	
M_URL		java.net.URL	java.net.URL	
M_OBJECT		Object	java.lang.Object	

CollectionType

Table 1.16. CollectionType default parameters

Name	Documentation	fullType	fullImplementation
ArrayList		java.util.List	java.util.ArrayList
HashSet		java.util.Set	java.util.HashSet

Complex types

`columnConfig`

Table 1.17. `columnConfig` properties

Name	Type	Documentation
`usages`	string []	For future uses
`enumConfig`	enumConfig	Specify the enum config to map this column to a Java enum.
`generatedValue`	generatedValue	When the column represents a single primary key, you can configure the GeneratedValue JPA annotation here.
`genericGenerator`	genericGenerator	When the column represents a single primary key, you can configure the GenericGenerator JPA annotation here.
`metaAttributes`	metaAttribute []	for future use
`customAnnotations`	customAnnotation []	List of custom annotations to apply on this property.
`manyToOneConfig`	manyToOneConfig	
`oneToManyConfig`	oneToManyConfig	
`oneToOneConfig`	oneToOneConfig	
`inverseOneToOneConfig`	oneToOneConfig	
`manyToManyConfig`	manyToManyConfig	
`sharedEnumName`	string	References a shared enum name by its name. You cannot have both an enum configuration, and a shared enum name.
`ignore`	boolean	If set to true, the column will be ignored. Make sure you do not ignore not null columns.
`type`	jdbcType	Override the default JdbcType.
`mappedType`	mappedType	Force the Java mapped type for this column instead of relying on Celerio's conventions.
`fieldName`	string	The field name, that is the name of the variable. By default, the field name is deduced from the column name. Example: 'first_name' will become 'firstName';
`tableName`	string	Allows you to use JPA secondary table if you set a table name that is different from the entity table

Name	Type	Documentation
		name. Default to the entity table name.
columnName	string	The mandatory column name.
size	int	Override the size defined in the metadata
min	int	Minimum length for String
ordinalPosition	int	Override the ordinal position defined in the metadata
displayOrder	int	The order of appearance of this column in forms, from top to bottom and in search results, from left to right. It defaults to the ordinal position.
typeConverter	string	Specify a type converter for persisting specific columns
businessKey	boolean	Indicates if this property is part of the entity business key. You may set it on several properties at the same time if your business key involves more than one column. If set to true, the property will be used in equals/hashCode methods. As soon as you declare this attribute on a property, convention no longer applies for the entity.
asTransient	boolean	Allows you to override the getter in a sub-class that extends the base entity. If set to true, all the annotations for the corresponding getter will be commented and a @Transient annotation will be set.
comment	string	The comment that will be inserted as JavaDoc for this column.
decimalDigits	int	Override the decimal digits defined in the metadata
defaultValue	string	Override the default value defined in the metadata
messageKey	boolean	Indicates whether the possible values held by this column are used as keys to resolve the associated localized values.
label	string	The label for this column. It is copied in the entity properties file located in the folder 'src/main/resources/localization/domain-generated'.
inverse	boolean	If this column represents a foreign key that points to the target of a ManyToMany association it

Name	Type	Documentation
		can be set to true to change the default inverse side of the ManyToMany association. By convention, the column with the highest ordinal position refers to the inverse side.
associationDirection	associationDirection	If this column represents an importedKey, should it be bidirectionnal or unidirectionnal
enableOneToVirtualOne	boolean	If this column represents an importedKey, and the column is unique, should the one to one be handled via a collection ?
nullable	boolean	Override the nullable definition defined in the metadata
formField	boolean	Should this column be in the form to be filled by your users
searchField	boolean	Should this column be in the search form to be filled by your users
searchResult	boolean	Should this column be present in the search results
selectLabel	boolean	Should this column be part of the label representation
unique	boolean	Override the uniqueness defined in the indexes from the metadata
visible	boolean	Should this column be visible to the users ?
version	boolean	Should this column be used as a version ? This column will be mapped with a @Version
targetTableName	string	Make this column a 'virtual' foreign key, referencing the specified table name. You should not use it if your database schema already declare such constraint.
targetColumnName	string	Once you have set the targetTableName, you can adjust the targetColumnName if it is different from the primaryKey column. Defaults to the targetTableName's primary key column.
targetEntityName	string	If this entity field maps a foreign key column that refers to a table mapped to different entities (i.e. inheritance), you must set the name of the entity this field refers to.
targetEntityVar	string	The variable name used to refer to the target entity.
sourceEntityVar	string	DEPRECATED. Please use in-

Name	Type	Documentation
		stead oneToManyConfig child element. The variable name used on the target entity to refer back to this entity. It should be singular.
m2mVar	string	DEPRECATED. Please use the manyToManyConfig child element.
password	boolean	Should this column be considered as storing a password ? This will impact input types attribute on the web tier.

jdbcConnectivity

Table 1.18. jdbcConnectivity properties

Name	Type	Documentation
tableTypes	tableType []	Table types to retrieve
driver	string	Jdbc driver name Example: org.h2.Driver
url	string	Jdbc url connection Example: Jdbc:h2:~/mydatabase
user	string	Jdbc user Example: myuser
password	string	Jdbc password Example: mypassword
schemaName	string	
tableNamePattern	string	you can restrict table extraction using a pattern Example: PROJECT_%
oracleRetrieveRemarks	boolean	Should Celerio retrieve remarks on oracle, beware this is a very time consuming operation
oracleRetrieveSynonyms	boolean	Should Celerio retrieve synonyms on oracle
catalog	string	Catalog name; must match the catalog name as it is stored in the database. "" retrieves those without a catalog empty means that the catalog name should not be used to narrow the search

index

Description of the given table's indices and statistics

Table 1.19. `index` properties

Name	Type	Documentation
`columnName`	string	Column name
`indexName`	string	Index name
`nonUnique`	boolean	Can index values be non-unique

`configuration`

Table 1.20. `configuration` properties

Name	Type	Documentation
`jdbcConnectivity`	jdbcConnectivity	The JDBC settings enabling Celerio to retrieve your database meta data.
`databaseInfo`	databaseInfo	Specify the database information, used for documentation only
`packs`	pack []	List of template packs to execute during the generation. Defaults to the template packs found in the classpath.
`modules`	module []	List of modules enabled during the generation. Modules are cross cutting functionalities that span across packs.
`customModules`	string []	List of custom modules enabled during the generation. Modules are cross cutting functionalities that span across packs.
`filenames`	pattern []	Control the generation output by filtering the generated files based on their filename.
`templates`	pattern []	Control the generation output by filtering the execution of the generation templates based on their filename.
`tables`	pattern []	Filter the tables you want to be generated
`numberMappings`	numberMapping []	The list of number mappings. The first match is used. If no match is found, convention applies.
`dateMappings`	dateMapping []	The list of date mappings. The first match is used. If no match is found, convention applies.
`conventions`	conventions	Configure the java convention

Name	Type	Documentation
		such as classnames, packages, methods
metaAttributes	metaAttribute []	For future use
generation	generation	Miscellaneous generation configuration
ajax	ajax	Miscellaneous ajax configuration
headerComment	headerComment	The JDBC settings enabling Celerio to retrieve your database meta data.
restriction	restriction	Restrict the generation to the given elements
associationDirection	associationDirection	Choose the default association direction
applicationName	string	Specify the default application name that is used in the generated pom.xml. It should be one word, no space. Example: casino
rootPackage	string	Specify the default root package for all the generated java code Example: com.mycompany

manyToOneConfig

Table 1.21. manyToOneConfig properties

Name	Type	Documentation
cascades	cascade []	The list of JPA cascade types for the this ManyToOne association.
var	string	The variable name for this many-to-one relation. It should be singular, for example: 'parent'.
fetch	fetchType	The JPA fetch type for this ManyToOne association.
ajax	boolean	Should this many to one be represented as an ajax drop down instead of a simple list ?

wellKnownFolderOverride

change the convention for a given well known folder

Table 1.22. wellKnownFolderOverride properties

Name	Type	Documentation
wellKnownFolder	wellKnownFolder	WellKnownFolder to override
folder	string	Override the folder for this WellKnownFolder
generatedFolder	string	Override the generated folder for this WellKnownFolder

oneToOneConfig

Table 1.23. oneToOneConfig properties

Name	Type	Documentation
cascades	cascade []	The list of JPA cascade types for the this one-to-one association.
var	string	The variable name for this one-to-one association. It should be singular, for example: 'parent'.
fetch	fetchType	The JPA fetch type for this one-to-one association.
ajax	boolean	Should this many to one be represented as an ajax drop down instead of a simple list ?

methodConventionOverride

change the prefix/suffix conventions for a given method

Table 1.24. methodConventionOverride properties

Name	Type	Documentation
methodConvention	methodConvention	Method type to override Example: GET_LOCALIZED
prefix	string	Override the prefix for this methodConvention Example: get
suffix	string	Override the suffix for this methodConvention Example: Localized

generation

Table 1.25. generation properties

Name	Type	Documentation
modelBasePrefix	string	
useMavenCelerioPlugin	boolean	
version	string	
generateCacheAnnotationInEntity	boolean	Tell whether or not the Hibernate @Cache should be generated in Entity. Defaults to true.
caseSensitiveTableAndColumnAnnotations	boolean	Tell whether table/column comparison with entity/property's name is case sensitive. If no, then @Table / @Column annotation may be omitted in certain cases. For example @Table("COUNTRY") would not be generated for @Entity public class Country... as they match. Defaults to false.

metadata

Table 1.26. metadata properties

Name	Type	Documentation
jdbcConnectivity	jdbcConnectivity	
databaseInfo	databaseInfo	
tables	table []	

include

Include a configuration file dedicated to entityConfigs. Use it on large project to split your entityConfigs configuration into smaller pieces.

Table 1.27. include properties

Name	Type	Documentation
filename	string	The path to a configuration file whose entityConfigs tag will be loaded. The path must be relative to the folder containing the main configuration file. Beware, only the entityConfigs tag will be loaded from this file. For example: includes/ref/country.xml

dateMapping

Global rule to map columns whose JDBC TYPE is DATE, TIME or TIMESTAMP to a Java type.

Table 1.28. dateMapping properties

Name	Type	Documentation
mappedType	mappedType	The mapped type to use when both the jdbcType and the columnNamePattern matches what is expected.
columnJdbcType	jdbcType	Only column with this JdbcType are concerned by this mapping. Accepted JdbcType are DATE, TIME, TIMESTAMP. When set to null, we assume the column JdbcType may be DATE, TIME, or TIMESTAMP.
columnNameRegExp	string	An optional regular expression to restrict the mapping by column name. The matching is case insensitive.

numberMapping

Global rule to map columns whose JDBC TYPE correspond to a number to a Java type.

Table 1.29. numberMapping properties

Name	Type	Documentation
mappedType	mappedType	The mapped type to use when both the column size and decimal digit value fall into the specified ranges.
columnSizeMin	int	The minimum (inclusive) column size to fall into this mapping range.
columnSizeMax	int	The maximum (exclusive) column size to fall into this mapping range.
columnDecimalDigitsMin	int	The minimum (inclusive) column decimal digit value to fall into this mapping range.
columnDecimalDigitsMax	int	The maximum (exclusive) column decimal digit value to fall into this mapping range.

enumConfig

Describes an enum class

Table 1.30. enumConfig properties

Name	Type	Documentation
enumValues	enumValue []	Specify the values that will be added to the current enum
comments	string []	Set comments for this enumeration.
name	string	Set the name of the generated enum. Example: name="CreditCardEnum"
rootPackage	string	Allows you to override the default root package. Example: com.yourcompany
subPackage	string	When you define a sub-package, the resulting enum's package becomes "<rootPackage>.domain.<subPackage>" instead of "<rootPackage>.domain". There is no sub-package by default.
type	enumType	JPA enum type
userType	string	Specifiy the user type implementation to use to be given to hibernate Example: name="com.youcompany.hibernate.support.CustomDateUserType"

headerComment

Specify your own file header comments

Table 1.31. headerComment properties

Name	Type	Documentation
lines	string []	Set each line to be added to the header files.
include	boolean	Should the header be present in the generated files ?
showTemplateName	boolean	Should the template name be present in the header. This is useful when dealing with large amount of templates and packs for debugging purposes or support information.

implementsInterface

Table 1.32. implementsInterface properties

Name	Type	Documentation
fullType	string	The full interface name that this entity implements. For example 'com.mycompany.MyInterface'

metaAttribute

Meta attributes are free form key value pairs

Table 1.33. metaAttribute properties

Name	Type	Documentation
name	string	name of you meta attribute
value	string	value for this attribute

classTypeOverride

Override the class conventions such as GeneratedPackage, suffix and prefixes

Table 1.34. classTypeOverride properties

Name	Type	Documentation
classType	classType	The ClassType to override
prefix	string	Override the prefix for this ClassType
suffix	string	Override the suffix for this ClassType
generatedPackage	generatedPackage	Override the GeneratedPackage for this ClassType

restriction

Table 1.35. restriction properties

Name	Type	Documentation
classTypes	classType []	Restrict the generation to the following classTypes
wellKnownFolders	wellKnownFolder []	Restrict the generation to the following wellKnownFolders
generatedPackages	generatedPackage []	Restrict the generation to the following generatedPackages

entityConfig

Describes an entity config

Table 1.36. entityConfig properties

Name	Type	Documentation
usages	string []	For future use
metaAttributes	metaAttribute []	For future use
inheritance	inheritance	Inheritance configuration.
extendsClass	extendsClass	Specify the base class that this entity should extends. Only for root entity.
implementsInterfaces	implementsInterface []	Specify the extra interfaces that this entity should implement.
columnConfigs	columnConfig []	This entity's columnConfigs. Note that for entities without inheritance or for entities with a JOIN inheritance strategy, if a column is present in the table's meta data but has no corresponding entityConfig in this list, then an entityConfig is created by default and added automatically to this list.
entityName	string	The JPA entity's type. For example, entityName="BankAccount". By default, the entity name is deduced from the table name. For example: 'bank_account' will become 'BankAccount';
sequenceName	string	Allows you to specify the sequence name to use in order to generate this entity pk value. When a sequence name is provided the corresponding @SequenceGenerator and @GeneratedValue annotations are added to the primary key attribute.
tableName	string	The underlying table name for

Name	Type	Documentation
		the entity. If not set, inheritance must be configured.
`middleTable`	boolean	By convention a table is considered as a many-to-many middle table if it has two foreign keys and no other regular columns. This attribute allows you to consider this table as a middle table, even if it has other regular columns. A regular column is a column that is not used as a primary key or as an optimistic lock.
`comment`	string	The comment that will be inserted in this entity's JavaDoc.
`rootPackage`	string	Allows you to override the default root package. Example: com.yourcompany
`subPackage`	string	When you define a sub-package, the resulting entity's package becomes "<rootPackage>.domain.<subPackage>" instead of "<rootPackage>.domain". There is no sub-package by default.
`associationDirection`	associationDirection	It is pertinent only if this entity's table plays the role of a middle table in a many-to-many association. In that case you can use this parameter to set the many-to-many association direction.
`collectionType`	collectionType	You can override the default collection type for this entity
`label`	string	The label for this entity. It is copied in the entity properties file located in the folder 'src/main/resources/localization/domain-generated'.

`cascade`

Table 1.37. `cascade` properties

Name	Type	Documentation
`type`	cascadeType	JPA cascade type.

table

Describes all the metadata for a given table

Table 1.38. table properties

Name	Type	Documentation
columns	column []	Describes all the columns metadata for this table
indexes	index []	Describes all the indexes for this table
importedKeys	importedKey []	Describes all the imported keys for this table
primaryKeys	string []	Describes all the primary keys for this table
name	string	This table name Example: USER
type	tableType	Type of the table
remarks	string	Documentation for this table Example: Table containing all the user related information

generatedPackageOverride

Override the convention for a given GeneratedPackage

Table 1.39. generatedPackageOverride properties

Name	Type	Documentation
generatedPackage	generatedPackage	The GeneratedPackage to override
rootPackage	string	Override the root package Example: com.yourcompany
subPackage	string	Override the sub package, if rootPackage is also specified they will be merged. Example: my.subpackage

xmlFormatter

Table 1.40. xmlFormatter properties

Name	Type	Documentation
enableXmlFormatter	boolean	Enable Formatter for all XML

Name	Type	Documentation
		generated file. Default to false. Note: currently formatting sort attributes in alphabetical order. This is not convenient for certain tags.
maximumLineWidth	int	
indent	int	

manyToManyConfig

The ManyToManyConfig allows you to fine tune your @ManyToMany association. The ManyToManyConfig element must be a child of a columnConfig element referencing (i.e foreignkey) the entity that is the target of this @ManyToMany association. The columnConfig necessarily belongs to a 'join entity'.

Table 1.41. manyToManyConfig properties

Name	Type	Documentation
cascades	cascade []	The list of JPA cascade types for the this ManyToMany association.
var	string	The variable name for the collection. It should be plural, for example: 'children'.
elementVar	string	The variable name for an element of the collection. For example, if the variable name for the collection is 'children', the elementVar should be child. This elementVar will be used to generate convenient methods for the collection, such as an adder method addChild(YourType child).
fetch	fetchType	The JPA fetch type for this ManyToMany association.

databaseInfo

Information about the database where celerio extracted the metadata

Table 1.42. databaseInfo properties

Name	Type	Documentation
databaseMajorVersion	int	
databaseMinorVersion	int	
databaseProductName	string	
databaseProductVersion	string	

Name	Type	Documentation
driverMajorVersion	int	
driverMinorVersion	int	
driverName	string	
driverVersion	string	
extraInfo	string	

pattern

A pattern is a structure to help handling inclusion and exclusion of resources

Table 1.43. pattern properties

Name	Type	Documentation
pattern	string	if the pattern contains '?', '*', '**' the matching will be done using an ant matcher, otherwise it will do a equalsIgnoreCase ? matches one character * matches zero or more characters ** matches zero or more 'directories' in a path Some examples: com/t?st.jsp - matches com/test.jsp but also com/tast.jsp or com/txst.jsp com/yourcompany/**\/*.jsp - matches all .jsp files in the com/yourcompany directory
include	boolean	True is is an inclusion pattern, false for an exclusion ?

enumValue

Table 1.44. enumValue properties

Name	Type	Documentation
comments	string []	Set comments for this enum value.
value	string	Value Example: MS
name	string	Name of the enum value, by default is is the one defined in value Example: Miss
label	string	Label to be used when representing this enum value Example: gender.male

inheritance

Table 1.45. inheritance properties

Name	Type	Documentation
discriminatorColumn	string	
discriminatorValue	string	
parentEntityName	string	
strategy	inheritanceType	

conventions

Change the default celerio conventions to your own needs.

Table 1.46. conventions properties

Name	Type	Documentation
fieldNaming	fieldNaming	Allows you to change the way Celerio calculates the default field name out of a column name.
eclipseFormatter	eclipseFormatter	Defines the formatting option of the generated Java files.
xmlFormatter	xmlFormatter	Defines the formatting options of the generated XML/XHTML files.
classTypes	classTypeOverride []	Override the conventions for classes
generatedPackages	generatedPackageOverride []	Override the conventions for packages
methodConventions	methodConventionOverride []	Override the conventions for methods
wellKnownFolders	wellKnownFolderOverride []	Override the conventions for folders
collectionType	collectionType	You can override the default collection type for this entity
identifiableProperty	string	The property name used in the Identifiable interface. Defaults to 'primaryKey'. If all your primary key are mapped to the same property name, you should change the identifiable property here to limit redundancy.
entitySubPackage-Preprended	trueFalse	When constructing the package name of a class constructed using a GeneratedPackage, tell if the

Name	Type	Documentation
		GeneratedPackage subPackage should be appended. For example given the entity 'MyEntity' with subpackage 'mysubpackage', and the generated package Manager-Impl with subpackage 'impl' then the packageName of all classes for MyEntity constructed using ManagerImpl will have the sub-package 'impl.mysubpackage'

fieldNaming

By default Celerio calculates Java field name based on the underlying column name. This setting allows you to change the column name that is passed to Celerio to calculate the default field name. You can for example remove well known prefix pattern from your column names.

Table 1.47. fieldNaming properties

Name	Type	Documentation
regexp	string	The regular expression to apply on the column name. For example, assuming you want to remove from all column names the prefix string that consists of 3 chars and a '_', you can use 'regexp="^.{3}_{1}" replace=""
replace	string	The replacement String. For example, assuming you want to remove from all column names the prefix string that consists of 3 chars and a '_', you can use 'regexp="^.{3}_{1}" replace="".

extendsClass

Table 1.48. extendsClass properties

Name	Type	Documentation
fullType	string	The full class name that this entity extends. For example 'com.mycompany.MyClass'. This is taken into account only if the entity is a root entity.

importedKey

Description of the primary key columns that are referenced by a table's foreign key columns (the primary keys imported by a table).

Table 1.49. importedKey properties

Name	Type	Documentation
fkColumnName	string	Foreign key column name
fkName	string	Foreign key name
pkColumnName	string	Primary key column name being imported
pkTableName	string	Primary key table name being imported

constraintConfig

Defines a constraint configuration. For future usage.

Table 1.50. constraintConfig properties

Name	Type	Documentation
metaAttributes	metaAttribute []	For future use
name	string	Name of the constraint
logicalname	string	

celerio

Table 1.51. celerio properties

Name	Type	Documentation
includes	include []	For large projects, you can split the content of the entityConfigs tag into multiple files and 'include' the files here.
configuration	configuration	Configure the celerio generator, such as conventions, jdbc connectivity, and other
constraintConfigs	constraintConfig []	Specify constraint configuration (Future use)
entityConfigs	entityConfig []	Configure the generated entities.
sharedEnumConfigs	enumConfig []	Configure enums that will be used in multiple entities, and ref-

Name	Type	Documentation
		erenced by their name in ColumnConfig

generatedValue

Table 1.52. `generatedValue` properties

Name	Type	Documentation
`generator`	string	The name of the primary key generator to use
`strategy`	generationType	The primary key generation strategy that the persistence provider must use to generate the annotated entity primary key.

oneToManyConfig

Table 1.53. `oneToManyConfig` properties

Name	Type	Documentation
`cascades`	cascade []	The list of JPA cascade types for the this OneToMany association.
`var`	string	The variable name for the collection. It should be plural, for example: 'children'.
`elementVar`	string	The variable name for an element of the collection. For example, if the variable name for the collection is 'children', the elementVar should be child. This elementVar will be used to generate convenient methods for the collection, such as an adder method addChild(YourType child).
`fetch`	fetchType	The JPA fetch type for this OneToMany association.

column

Configuration of a column, the data reflect the jdbc metadata

Table 1.54. `column` properties

Name	Type	Documentation
`enumValues`	string []	Enum values if the column represents an enum
`name`	string	Column name
`columnDef`	string	Default value
`decimalDigits`	int	The number of fractional digits
`nullable`	boolean	Is NULL allowed ?
`ordinalPosition`	int	Index of column in table (starting at 1)
`remarks`	string	Comment describing the column
`size`	int	Column size. For char or date types this is the maximum number of characters, for numeric or decimal types this is precision.
`type`	jdbcType	This column jdbc type

`ajax`

Table 1.55. `ajax` properties

Name	Type	Documentation
`oneToOne`	boolean	
`manyToOne`	boolean	

`genericGenerator`

Table 1.56. `genericGenerator` properties

Name	Type	Documentation
`parameters`	metaAttribute []	
`name`	string	
`strategy`	string	

`pack`

A pack is the aggregation of templates and static files that produces functionalities.

Table 1.57. `pack` properties

Name	Type	Documentation
`filenames`	pattern []	Control the generation output by filtering the generated files based on their filename.
`templates`	pattern []	Control the generation output by filtering the execution of the generation templates based on their filename.
`name`	string	Name of the pack
`path`	string	Path of the pack, it should be relative to the project, or absolute. Example: src/main/packs/my-own-pack/
`enable`	boolean	Should this pack be used ?
`order`	int	Specify the pack order, its main interest is when two packs produce the same artifacts.

`customAnnotation`

Table 1.58. `customAnnotation` properties

Name	Type	Documentation
`annotation`	string	The full qualified custom annotation to apply to this property. For example: @com.mycompany.MyAnnotation(debug = true)

Examples

Filtering packs

```
<celerio xmlns="http://www.jaxio.com/schema/celerio" xmlns:xsi="http://www.w3.org/
  <configuration>
    <packs>
      <pack name="pack-backend" enable="true" />
      <pack name="pack-mvc-common" enable="false" />
      <pack name="pack-jsf" enable="false" />
    </packs>
  </configuration>
</celerio>
```

Filtering filenames

```
<celerio xmlns="http://www.jaxio.com/schema/celerio" xmlns:xsi="http://www.w3.org/
  <configuration>
    <filenames>
      <filename include="true" pattern="**/sql/**/*.sql" />
    </filenames>
  </configuration>
</celerio>
```

Filtering tables

```
<celerio xmlns="http://www.jaxio.com/schema/celerio" xmlns:xsi="http://www.w3.org/
  <configuration>
    <tables>
      <table include="false" pattern="role" />
    </tables>
  </configuration>
</celerio>
```

Filtering templates

```
<celerio xmlns="http://www.jaxio.com/schema/celerio" xmlns:xsi="http://www.w3.org/
        <configuration>
                <templates>
                        <template include="true" pattern="**/resources/log4j.p.vm.
                        <template include="true" pattern="src/main/resources/sprin
                </templates>
        </configuration>
</celerio>
```