# EcoreDoc User Guide

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Generates AsciiDoctor files to document Ecore metamodels, similar to JavaDoc. AsciiDoctor can be rendered as HTML, PDF, or Eclipse Help. EcoreDoc can be used as Maven Plugin, standalone command-line tool, Java API, or Eclipse Plugin.

### 1. Overview

EcoreDoc's Java API works on a list of EClassifiers. Maven Plugin, Standalone Command-Line Tool and Eclipse Plug-in take all EClassifiers from one or more \*.ecore or \*.xcore files.

EcoreDoc creates one output document containing all passed EClassifiers. They are grouped by containing EPackage. The output document contains documentation, all properties of supported elements, and cross-references to all usages of each element.

EcoreDoc currently supports the following elements:

- EPackage
- EDataType
- EEnum
- EEnumLiteral
- EClass
- EAttribute
- EReference
- EOperation
- EParameter

EcoreDoc is highly configurable via the Generator Configuration.

The homepage and repository of EcoreDoc can be found at https://gitlab.manatree.io/MDEAssets/EcoreDoc. Please use the issue tracker at this site for any feature requests or bugs.

### 2. Java API

The Java API is available as Maven artifact com.altran.general.emf.ecoredoc:com.altran.general.emf.ecoredoc.generator or OSGi bundle com.altran.general.emf.ecoredoc.generator.ebr.

The Generator Configuration is contained in Maven artifact com.altran.general.emf.ecoredoc:com.altran.general.emf.ecoredoc.generator.config or OSGi bundle com.altran.general.emf.ecoredoc.generator.config.ebr.

The main interface is com.altran.general.emf.ecoredoc.generator.EcoreDocGenerator. The constructor takes the list of EClassifiers to generate documentation for.

The getConfig() method returns a fully initialized
com.altran.general.emf.ecoredoc.generator.config.EcoreDocGeneratorConfig that can be changed to
adjust the Generator Configuration.

The generate() method returns a CharSequence containing the complete AsciiDoctor output document.

# 3. Maven Plugin

The Maven Plugin is available as Maven artifact com.altran.general.emf.ecoredoc:ecoredoc-maven-plugin.

It supports the following configuration settings:

#### inputFiles (required)

The list of Ecore metamodel files to create documentation for.

#### outputFile (required)

The output file to write the generated AsciiDoctor document to.

By convention, the file extension is .adoc.



If the file exists, it will be overwritten and a warning is emitted.

#### resolve (default: false)

Whether EcoreDoc should explicitly try to resolve all references in the *inputFiles*. Might be necessary for highly interconnected metamodels.

#### config (default: unchanged default config)

Customized Generator Configuration.

The *config* contents stricly follow the structure and naming relative to Class EcoreDocGeneratorConfig, easiest explained with an example.

Assume the *inputFiles* contain two EPackages, namely EPackage1 and EPackage2.

EPackage1 contains, among others, two EClasses, named MyEClass and Class3. The latter one contains, among others, the EAttribute named specialNumber.

EPackage1 also contains an EEnum named Enum1.

#### pom.xml

```
</dependency>
</dependencies>
<build>
  <plugins>
    <plugin>
      <groupId>com.altran.general.emf.ecoredoc</groupId>
      <artifactId>ecoredoc-maven-plugin</artifactId>
      <configuration>
        <resolve>true</resolve>
        <config>
          <renderDefaults>false</renderDefaults>
          <documentTitle>This is the title of my document/documentTitle>
          <ePackages>
            <ePackage>
              <targetEPackage>EPackage1</targetEPackage>
              <eClasses>
                <eClass>
                  <targetEClass>MyEClass</targetEClass>
                  <repeatInherited>false</repeatInherited>
                </eClass>
                <eClass>
                  <targetEClass>Class3</targetEClass>
                  <eAttributes>
                    <eAttribute>
                      <targetEAttribute>specialNumber</targetEAttribute>
                      <render>false</render>
                    </eAttribute>
                  </eAttributes>
                </eClass>
              </eClasses>
              <eEnums>
                <eEnum>
                  <targetEEnum>Enum1</targetEEnum>
                  <renderDefaults>true</renderDefaults>
                </eEnum>
              </eEnums>
            </ePackage>
            <ePackage>
              <targetEPackage>EPackage2</targetEPackage>
              <renderDefaults>true</renderDefaults>
            </ePackage>
          </ePackages>
        </config>
        <inputFiles>
          <inputFile>EPackage1.ecore</inputFile>
          <inputFile>EPackage2.ecore</inputFile>
        </inputFiles>
        <outputFile>output.adoc
```

```
</configuration>
    </plugin>
    </plugins>
    </build>
    </project>
```

This example sets the following configuration:

• renderDefaults for all contents: true

• documentTitle: This is the title of my document

• repeatInherited for MyEClass: false

• render for specialNumber: false

• renderDefaults for Enum1: true

• renderDefaults for EPackage2: true

### 4. Standalone Command-Line Tool

The standalone command-line tool is available as Maven artifact com.altran.general.emf.ecoredoc:com.altran.general.emf.ecoredoc.standalone.

Use the following command to invoke. Please replace \$\{\text{ecoredoc-version}\}\) with your version of EcoreDoc:

```
java -jar com.altran.general.emf.ecoredoc.standalone-${ecoredoc-version}-jar-with
-dependencies.jar <options>
```

If invoked without options, it will print the following help:

```
Generates reference documentation for ecore models.

The output is inspired by JavaDoc and formatted in AsciiDoctor format.
AsciiDoctor can easily be rendered to HTML, PDF, or Eclipse help.

Usage:

EcoreDocGenerator [parameters] [List of ecore files to generate]

If unspecified, the output file name will be "<firstEcoreFile.ecore>.adoc"

Parameters:

-r,
--resolve: Resolve external references
```

```
-o <outputFile>,
--output <outputFile>: Specify output file name.
--documentTitle <title>: Set title of output document
--positionEDataTypes <pos>: Set rendering position of all EDataTypes within EPackage
--positionEEnums <pos>:
                           Set rendering position of all EEnums within EPackage
--positionEClasses <pos>: Set rendering position of all EClasses within EPackage
[+|-]defaults:
               [Enable|disable] rendering of default values
[+|-]bounds:
                [Enable|disable] rendering of multiplicity bounds
                                 (overwrites defaults parameter)
[+|-]inherited: [Enable|disable] repetition of inherited features
[+|-]useCases:
               [Enable|disable] rendering of use cases
                                 (references to other usages of this element)
[+|-]subTypes: [Enable|disable] rendering of sub-types
[+|-]superTypes: [Enable|disable] rendering of super-types
```

#### Examples:

EcoreDocGenerator my.ecore Generates the documentation of my.ecore into my.ecore.adoc

EcoreDocGenerator some/path/to/my.ecore other.ecore Generates the documentation of some/path/to/my.ecore and other.ecore into some/path/to/my.ecore.adoc

EcoreDocGenerator -r my.ecore
Tries to resolve all external references in my.ecore and
generates the documentation of my.ecore and referenced models into my.ecore.adoc

EcoreDocGenerator -defaults +bounds my.ecore Generates the documentation of my.ecore and referenced models into my.ecore.adoc without rendering default values, but still rendering multiplicity bounds

EcoreDocGenerator --positionEClasses 1 --positionEEnums 2 --positionEDataTypes 3 my.ecore

Generates the documentation of my.ecore and referenced models into my.ecore.adoc with all EClasses first, then all EEnums, and finally all EDataTypes

EcoreDocGenerator -o output.adoc my.ecore other.ecore Generates the documentation of my.ecore and other.ecore into output.adoc

### 5. Eclipse Plug-in

The Eclipse Plug-in is available as Feature com.altran.general.emf.ecoredoc.ui.feature.

It provides a context menu entry for one or more \*.ecore / \*.xcore files in the following views:

- Project Explorer
- Package Explorer
- Model Explorer

The command creates one output file next to the first selected input file, named <firstInputFile.ecore>.adoc. The output file contains the documentation of all selected metamodels.

### 6. EcoreDoc Metamodel Annotation

Any of the Generator Configuration options can be used as Ecore Annotation. These options will be used by default; any external options take precedence over annotation options.

EcoreDoc will throw an IllegalArgumentException if an EcoreDoc annotation contains an illegal value.

### 6.1. Ecore Annotation

Create an EAnnotation on the annotated element with source

http://altran.com/general/emf/ecoredoc/generator/config/0.1

Within this annotation, create one key/value pair for each option.



The source identifier might change in the future! However, it should be possible to maintain backwards compability.



Example Ecore annotation on EAttribute id (sets render for id to false)

#### 6.2. Xcore Annotation

First, register the annotation.

EcoreDoc annotation registration

```
annotation "http://altran.com/general/emf/ecoredoc/generator/config/0.1" as EcoreDoc
```

Afterwards, we can use the annotation as usual.

Example Xcore annotation on EAttribute name (sets render for name to false)

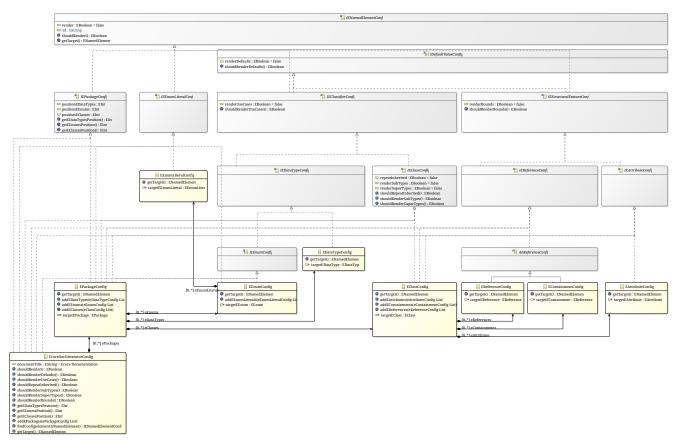
```
@EcoreDoc(
   render="false"
)
String name
```

# 7. Generator Configuration

The generator configuration is an Ecore metamodel, so we obviously use EcoreDoc to create the documentation listed below.

The most important parts are:

- Class EcoreDocGeneratorConfig as model root, also describing the customization hierarchy
- Interface IENamedElementConfig, implemented by all elements
- Interface IDefaultValueConfig, implemented by all elements except Class EEnumLiteralConfig
- Interface IEClassifierConfig
- Interface IEClassConfig
- Interface IEPackageConfig
- Interface IEStructuralFeatureConfig



Generator Configuration Class Diagram

### 7.1. Abstract Class AEReferenceConfig

#### Super-types

- config.IDefaultValueConfig
- config.IENamedElementConfig
- config.IEReferenceConfig
- config.IEStructuralFeatureConfig
- config.IETypedElementConfig

### 7.2. Class EAttributeConfig

#### Super-types

- config.IDefaultValueConfig
- config.IEAttributeConfig
- config.IENamedElementConfig
- config.IEStructuralFeatureConfig
- config.IETypedElementConfig

#### References

Name	Туре	Properties	Description
targetEAttribute	ecore.EAttribute	[01]	

Name	Aspect and Type	Properties	Description
<pre>getTarget()</pre>	returns	[01]	
▲ config.	ecore. ENamedElement		
<pre>IENamedElementConf ig.getTarget()</pre>	targetEAttribute	2	

• config.EClassConfig.eAttributes

### 7.3. Class EClassConfig

#### Super-types

- config.IDefaultValueConfig
- config.IEAttributeConfig
- config.IEClassConfig
- config.IEClassifierConfig
- config.IENamedElementConfig
- config.IEOperationConfig
- config.IEParameterConfig
- config.IEReferenceConfig
- config.IEStructuralFeatureConfig
- config.IETypedElementConfig

#### **Containments**

Name	Туре	Properties	Description
eAttributes	config. EAttributeConfig	[0*]	
eContainments	config. EContainmentConfig	[0*]	
eOperations	config. EOperationConfig	[0*]	
eReferences	config. EReferenceConfig	[0*]	

#### References

Name	Туре	Properties	Description
targetEClass	ecore.EClass	[01]	

Name	Aspect and Type	Properties	Description	
addEAttributes( eAttributeConfig)	returns void	[01]	Helper method for {@linkplain org.eclipse.sisu.plexus.CompositeBean Helper#setProperty()} to handle ELists correctly.	
	eAttributeConfig config.List	[01]		
	EAttributes += 6	eAttributeConfig		
addEContainments( eContainmentConfig )	returns void	[01]	Helper method for {@linkplain org.eclipse.sisu.plexus.CompositeBean Helper#setProperty()} to handle ELists correctly.	
	eContainmentConfig config.List	[01]		
	EContainments +=	eContainmentConf	ig	
addEOperations( eOperationConfig)	returns void	[01]	Helper method for {@linkplain org.eclipse.sisu.plexus.CompositeBean Helper#setProperty()} to handle ELists correctly.	
	eOperationConfig config.List	[01]		
	EOperations += eOperationConfig			
addEReferences( eReferenceConfig)	returns void	[01]	Helper method for {@linkplain org.eclipse.sisu.plexus.CompositeBean Helper#setProperty()} to handle ELists correctly.	
	eReferenceConfig config.List	[01]		
	EReferences += 6	eReferenceConfig		

Name	Aspect and Type	Properties	Description
<pre>getTarget()</pre>	returns	[01]	
▲ config.	ecore. ENamedElement		
<pre>IENamedElementConf ig.getTarget()</pre>	targetEClass		

• config.EPackageConfig.eClasses

### 7.4. Class EContainmentConfig

#### Super-types

- config.AEReferenceConfig
- config.IDefaultValueConfig
- config.IENamedElementConfig
- config.IEReferenceConfig
- config.IEStructuralFeatureConfig
- config.IETypedElementConfig

#### References

Name	Туре	Properties	Description
targetEContainment	ecore.EReference	[01]	

#### **Operations**

Name	Aspect and Type	Properties	Description
<pre>getTarget()</pre>	returns ecore.	[01]	
▲ config. IENamedElementConf	ENamedElement		
<pre>ig.getTarget()</pre>	targetEContainm	ent	

#### Used at

• config.EClassConfig.eContainments

### 7.5. Class EDataTypeConfig

#### Super-types

- config.IDefaultValueConfig
- config.IEClassifierConfig
- config.IEDataTypeConfig
- config.IENamedElementConfig

#### References

Name	Туре	Properties	Description
targetEDataType	ecore.EDataType	[01]	

#### **Operations**

Name	Aspect and Type	Properties	Description
<pre>getTarget()</pre>	returns	[01]	
▲ config.	ecore. ENamedElement		
<pre>IENamedElementConf ig.getTarget()</pre>	targetEDataType		

#### Used at

• config.EPackageConfig.eDataTypes

### 7.6. Class EEnumConfig

#### Super-types

- config.IDefaultValueConfig
- config.IEClassifierConfig
- config.IEDataTypeConfig
- config.IEEnumConfig
- config.IEEnumLiteralConfig
- config.IENamedElementConfig

#### **Containments**

Name	Туре	Properties	Description
eEnumLiterals	config. EEnumLiteralConfig	[0*]	

#### References

Name	Туре	Properties	Description
targetEEnum	ecore.EEnum	[01]	

Name	Aspect and Type	Properties	Description
addEEnumLiterals( eEnumLiteralConfig )	returns void	[01]	Helper method for {@linkplain org.eclipse.sisu.plexus.CompositeBean Helper#setProperty()} to handle ELists correctly.
	eEnumLiteralConfig config.List	[01]	
	EEnumLiterals += eEnumLiteralConfig		
<pre>getTarget()  ▲ config. IENamedElementConf ig.getTarget()</pre>	returns ecore. ENamedElement	[01]	
	targetEEnum		

• config.EPackageConfig.eEnums

# 7.7. Class EEnumLiteralConfig

#### Super-types

- config.IEEnumLiteralConfig
- config.IENamedElementConfig

#### References

Name	Туре	Properties	Description
targetEEnumLiteral	ecore.EEnumLiteral	[01]	

#### Operations

Name	Aspect and Type	Properties	Description
<pre>getTarget()</pre>	returns ecore.	[01]	
▲ config. IENamedElementConfig.getTarget()	ENamedElement		
	targetEEnumLite	ral	

#### Used at

• config.EEnumConfig.eEnumLiterals

# 7.8. Class EOperationConfig

#### Super-types

- config.AEReferenceConfig
- config.IDefaultValueConfig
- config.IENamedElementConfig
- config.IEReferenceConfig
- config.IEStructuralFeatureConfig
- config.IETypedElementConfig

#### Containments

Name	Туре	Properties	Description
eParameters	config. EParameterConfig	[0*]	

#### References

Name	Туре	Properties	Description
targetEOperation	ecore.EOperation	[01]	

Name	Aspect and Type	Properties	Description
addEParameters( eParameterConfig)	returns void	[01]	Helper method for {@linkplain org.eclipse.sisu.plexus.CompositeBean Helper#setProperty()} to handle ELists correctly.
	eParameterConfig config.List	[01]	
	EParameters +=	eParameterConfig	
getId()  ▲ config. IENamedElementConfig.id	returns EString	[01]	
	targetEOperatio	n?.joinId	
<pre>getTarget()  ▲ config. IENamedElementConf ig.getTarget()</pre>	returns ecore. ENamedElement	[01]	
	targetEOperatio	n	

Name	Aspect and Type	Properties	Description
joinId(eOperation)	returns EString	[01]	
	eOperation ecore.EOperation	[01]	
	•	+ eOperation.EPara .name + "_" + EType	ameters.map[(EType?.eContainer as e?.name].join(".")

• config.EClassConfig.eOperations

### 7.9. Class EPackageConfig

#### Super-types

- config.IDefaultValueConfig
- config.IEAttributeConfig
- config.IEClassConfig
- config.IEClassifierConfig
- config.IEDataTypeConfig
- config.IEEnumConfig
- config.IEEnumLiteralConfig
- config.IENamedElementConfig
- config.IEOperationConfig
- config.IEPackageConfig
- config.IEParameterConfig
- config.IEReferenceConfig
- config.IEStructuralFeatureConfig
- config.IETypedElementConfig

#### Containments

Name	Туре	Properties	Description
eClasses	config. EClassConfig	[0*]	
eDataTypes	config. EDataTypeConfig	[0*]	
eEnums	config.EEnumConfig	[0*]	

#### References

Name	Туре	Properties	Description
targetEPackage	ecore.EPackage	[01]	

Name	Aspect and Type	Properties	Description	
addEClasses( eClassConfig)	returns void	[01]	Helper method for {@linkplain org.eclipse.sisu.plexus.CompositeBean Helper#setProperty()} to handle ELists correctly.	
	eClassConfig config.List	[01]		
	EClasses += eCl	assConfig		
addEDataTypes( eDataTypeConfig)	returns void	[01]	Helper method for {@linkplain org.eclipse.sisu.plexus.CompositeBean Helper#setProperty()} to handle ELists correctly.	
	eDataTypeConfig config.List	[01]		
	EDataTypes += eDataTypeConfig			
addEEnums( eEnumConfig)	returns void	[01]	Helper method for {@linkplain org.eclipse.sisu.plexus.CompositeBean Helper#setProperty()} to handle ELists correctly.	
	eEnumConfig config.List	[01]		
	EEnums += eEnum	Config		
<pre>getTarget()  ▲ config. IENamedElementConf ig.getTarget()</pre>	returns ecore. ENamedElement	[01]		
	targetEPackage			

• config.EcoreDocGeneratorConfig.ePackages

# 7.10. Class EParameterConfig

Super-types

- config.AEReferenceConfig
- config.IDefaultValueConfig
- config.IENamedElementConfig
- config.IEReferenceConfig
- config.IEStructuralFeatureConfig
- config.IETypedElementConfig

#### References

Name	Туре	Properties	Description
targetEParameter	ecore.EParameter	[01]	

#### **Operations**

Name	Aspect and Type	Properties	Description
<pre>getTarget()</pre>	returns	[01]	
▲ config. IENamedElementConfig.getTarget()	ecore. ENamedElement		
	targetEParamete	г	

#### Used at

• config.EOperationConfig.eParameters

### 7.11. Class EReferenceConfig

#### Super-types

- config.AEReferenceConfig
- config.IDefaultValueConfig
- config.IENamedElementConfig
- config.IEReferenceConfig
- config.IEStructuralFeatureConfig
- config.IETypedElementConfig

#### References

Name	Туре	Properties	Description
targetEReference	ecore.EReference	[01]	

Name	Aspect and Type	Properties	Description
<pre>getTarget()  ▲ config. IENamedElementConf ig.getTarget()</pre>	returns ecore. ENamedElement	[01]	
	targetEReference	2	

• config.EClassConfig.eReferences

### 7.12. Class EcoreDocGeneratorConfig

Root for the detailed EcoreDocGenerator configuration.

The configuration allows to specify configuration options for each element and all its contained elements. It always chooses the most specific configuration setting.

#### Example:

EcoreDocGeneratorConfig \* renderDefaults: {unset, defaults to true} \* repeatInherited: false + EPackage1 \* renderDefaults: false + EClass1 + EAttribute1 \* renderDefaults: true + EAttribute2 {no custom config} + EClass2 extends EClass1 + EPackage2 \* repeatInherited: true + EClass3 extends EClass1 + EClass4 + EAttribute3 \* renderDefaults: true \* repeatInherited: false



# EAttribute2 renderDefaults false repeatInherited false EClass2 renderDefaults false repeatInherited false EPackage2 renderDefaults true repeatInherited true EClass3 renderDefaults true repeatInherited true EClass4 renderDefaults true repeatInherited true EAttribute3 renderDefaults true repeatInherited false Super-types

- config.IDefaultValueConfig
- config.IEAttributeConfig
- config.IEClassConfig

- config.IEClassifierConfig
- config.IEDataTypeConfig
- config.IEEnumConfig
- config.IEEnumLiteralConfig
- config.IENamedElementConfig
- config.IEOperationConfig
- config.IEPackageConfig
- config.IEParameterConfig
- config.IEReferenceConfig
- config.IEStructuralFeatureConfig
- config.IETypedElementConfig

#### Attributes

Name	Туре	Properties	Description
documentTitle	EString	[01]  Default: Ecore Documentation	Title of the generated document.  defaults to Ecore Documentation.

#### Containments

Name	Туре	Properties	Description
ePackages	config. EPackageConfig	[0*]	

Name	Aspect and Type	Properties	Description
addEPackages( ePackageConfig)	returns void	[01]	Helper method for {@linkplain org.eclipse.sisu.plexus.CompositeBean Helper#setProperty()} to handle ELists correctly.
	ePackageConfig config.List	[01]	
	EPackages += eP	ackageConfig	

Name	Aspect and Type	Properties	Description
findConfig(			
element)			

ecore. <b>AlspiedElamd</b> n <b>Type</b>	Properties	Description
element	[01]	
19		

```
switch (element) {
  EPackage:
    EPackages
  EEnum:
    EPackages
    .map[EEnums]
    .flatten
  EDataType:
    EPackages
      .map[EDataTypes]
      .flatten
  EEnumLiteral:
    EPackages
      .map[EEnums]
      .flatten
      .map[EEnumLiterals]
      .flatten
  EClass:
    EPackages
      .map[EClasses]
      .flatten
  EAttribute:
    EPackages
    .map[EClasses]
    .flatten
    .map[EAttributes]
    .flatten
  EReference case (element.isContainment):
    EPackages
      .map[EClasses]
      .flatten
      .map[EContainments]
      .flatten
  EReference case (!element.isContainment):
    EPackages
      .map[EClasses]
      .flatten
      .map[EReferences]
      .flatten
  EOperation:
    EPackages
    .map[EClasses]
```

Name

```
Aspect and Type
                                                           Description
Name
                                       Properties
getEClassesPositio | returns
                                       [0..1]
                                                           Sets default for positionEClasses = 3.
n()
                   EInt
▲ config.
IEPackagéConfig.
                      if (isSetPositionEClasses) {
getEClassesPositio
n()
                        positionEClasses
                     } else {
                        3
                      }
getEDataTypesPosit | returns
                                       [0..1]
                                                           Sets default for positionEDataTypes =
ion()
                   EInt
                                                           1.
▲ config.
IEPackageConfig.
getEDataTypesPosit
                     if (isSetPositionEDataTypes) {
ion()
                        positionEDataTypes
                     } else {
                        1
                      }
getEEnumsPosition(|returns
                                       [0..1]
                                                           Sets default for positionEEnums = 2.
                   EInt
▲ config.
IEPackagéConfig.
                     if (isSetPositionEEnums) {
getEEnumsPosition(
                        positionEEnums
                     } else {
                        2
                      }
                                       [0..1]
getTarget()
                   returns
                   ecore.
▲ config.
                   ENamedElement
IENamedElementConf
ig.getTarget()
                     null
                                       [0..1]
shouldRender()
                                                           Sets default for render = true.
                   returns
                   EBoolean
▲ config.
IENamedElementConf
                      if (isSetRender) {
ig.shouldRender()
                        render
                     } else {
                        true
                      }
```

Name	Aspect and Type	Properties	Description	
<pre>shouldRenderBounds ()</pre>	EBoolean	[01]	Sets default for renderBounds = shouldRenderDefaults().	
<pre>IETypedElementConf ig. shouldRenderBounds ()</pre>	<pre>if (isSetRenderBounds) {</pre>			
shouldRenderDefaults()	returns EBoolean	[01]	Sets default for renderDefaults = true.	
▲ config. IDefaultValueConfig. shouldRenderDefaults()	<pre>if (isSetRenderDefaults) {</pre>			
<pre>shouldRenderSubTyp es()</pre>	returns EBoolean	[01]	Sets default for renderSubTypes = true.	
▲ config. IEClassConfig. shouldRenderSubTyp es()	<pre>if (isSetRenderSubTypes) {    renderSubTypes } else {    true }</pre>			
shouldRenderSuperT ypes()	returns EBoolean	[01]	Sets default for RenderSuperTypes = true.	
▲ config. IEClassConfig. shouldRenderSuperT ypes()	<pre>if (isSetRenderS     renderSuperTyp } else {     true }</pre>			

Name	Aspect and Type	Properties	Description	
shouldRenderUseCas es()	returns EBoolean	[01]	Sets default for renderUseCases = true.	
▲ config. IEClassifierConfig. shouldRenderUseCas es()	<pre>if (isSetRenderUseCases) {</pre>			
<pre>shouldRepeatInheri ted()</pre>	returns EBoolean	[01]	Sets default for repeatInherited = true.	
▲ config. IEClassConfig. shouldRepeatInheri ted()	<pre>if (isSetRepeatInherited) {    repeatInherited } else {    true }</pre>			

# 7.13. Interface IDefaultValueConfig

#### Attributes

Name	Туре	<b>Properties</b>	Description
renderDefaults	EBoolean	[01] unsettable	Whether properties should be rendered at their default values.  Example: If EReference.ordered = true (the default value), the ordered property of that EReference will not be rendered if renderDefaults = false.

Name	Aspect and Type	Properties	Description
<pre>shouldRenderDefaul ts()</pre>	returns EBoolean	[01]	Traverses the tree to find the most specific renderDefaults setting.
▼ config. EcoreDocGeneratorConfig. shouldRenderDefaults()	<pre>if (isSetRender)     renderDefault } else {</pre>	S	fig).shouldRenderDefaults()

# 7.14. Interface IEAttributeConfig

#### Super-types

- config.IDefaultValueConfig
- config.IENamedElementConfig
- config.IEStructuralFeatureConfig
- config.IETypedElementConfig

### 7.15. Interface IEClassConfig

#### Super-types

- config.IDefaultValueConfig
- config.IEClassifierConfig
- config.IENamedElementConfig

#### Attributes

Name	Туре	Properties	Description
renderSubTypes	EBoolean	[01] unsettable	Whether the list of sub-types should be rendered.
renderSuperTypes	EBoolean	[01] unsettable	Whether the list of super-types should be rendered.

Name	Туре	Properties	Description
repeatInherited	EBoolean	[01] unsettable	Whether inherited features should be repeated.  Example: EClass1 has an EAttribute
			name=attr1. EClass2 extends EClass1. If repeatInherited = true for EClass2, attr1 will be listed in the section of EClass1 and EClass2. Otherwise, attr1 will only be listed in the section of EClass1.

Name	Aspect and Type	Properties	Description	
<pre>shouldRenderSubTyp es()  ▼ config.</pre>	returns EBoolean	[01]	Traverses the tree to find the most specific renderSubTypes setting.	
EcoreDocGeneratorConfig. shouldRenderSubTypes()	<pre>if (isSetRenderSubTypes) {   renderSubTypes } else {   (eContainer as IEClassConfig).shouldRenderSubTypes() }</pre>			
shouldRenderSuperT ypes()  ▼ config. EcoreDocGeneratorC onfig. shouldRenderSuperT ypes()	returns EBoolean	[01]	Traverses the tree to find the most specific renderSuperTypes setting.	
	<pre>if (isSetRenderSuperTypes) {</pre>			
shouldRepeatInheri ted()  ▼ config. EcoreDocGeneratorC onfig. shouldRepeatInheri ted()	returns EBoolean	[01]	Traverses the tree to find the most specific repeatInherited setting.	
	<pre>if (isSetRepeat     repeatInherit } else {     (eContainer a) }</pre>	ed	houldRepeatInherited()	

### 7.16. Interface IEClassifierConfig

#### Super-types

- config.IDefaultValueConfig
- config.IENamedElementConfig

#### Attributes

Name	Туре	Properties	Description
renderUseCases	EBoolean	[01] unsettable	Whether use cases (references to other usages of this element) should be rendered.

#### **Operations**

Name	Aspect and Type	Properties	Description
<pre>shouldRenderUseCas es()</pre>	returns EBoolean	[01]	Traverses the tree to find the most specific renderUseCases setting.
▼ config. EcoreDocGeneratorConfig. shouldRenderUseCases()	<pre>if (isSetRender     renderUseCase } else {</pre>	S	ig).shouldRenderUseCases()

### 7.17. Interface IEDataTypeConfig

#### Super-types

- config.IDefaultValueConfig
- config.IEClassifierConfig
- config.IENamedElementConfig

### 7.18. Interface IEEnumConfig

#### Super-types

- config.IDefaultValueConfig
- config.IEClassifierConfig
- config.IEDataTypeConfig
- config.IENamedElementConfig

### 7.19. Interface IEEnumLiteralConfig

#### Super-types

# 7.20. Interface IENamedElementConfig

#### Attributes

Name	Туре	Properties	Description
render	EBoolean	[01] unsettable	Whether this element should be rendered at all.

Name	Aspect and Type	Properties	Description
abstract	returns	[01]	Link to the configured element.
<pre>getTarget()</pre>	ecore. ENamedElement		
▼ config. EAttributeConfig.			
<pre>getTarget()</pre>			
▼ config. EClassConfig. getTarget()			
▼ config. EContainmentConfig .getTarget()			
▼ config. EDataTypeConfig. getTarget()			
▼ config. EEnumConfig. getTarget()			
▼ config. EEnumLiteralConfig .getTarget()			
▼ config. EOperationConfig. getTarget()			
▼ config. EPackageConfig. getTarget()			
▼ config. EParameterConfig. getTarget()			
▼ config. EReferenceConfig. getTarget()			
▼ config. EcoreDocGeneratorC onfig.getTarget()			

Name	Aspect and Type	Properties	Description
shouldRender()  ▼ config. EcoreDocGeneratorC	returns EBoolean	[01]	Traverses the tree to find the most specific render setting.
onfig. shouldRender()	<pre>if (isSetRender   render } else {</pre>	, <u> </u>	nfig).shouldRender()

• config.EcoreDocGeneratorConfig.findConfig(element)

### 7.21. Interface IEOperationConfig

#### Super-types

- config.IDefaultValueConfig
- config.IENamedElementConfig
- config.IETypedElementConfig

### 7.22. Interface IEPackageConfig

#### Super-types

• config.IENamedElementConfig

#### Attributes

Name	Туре	Properties	Description
positionEClasses	EInt	[01] unsettable	Rendering position of all EClasses within an EPackage.
positionEDataTypes	EInt	[01] unsettable	Rendering position of all EDataTypes within an EPackage.
positionEEnums	EInt	[01] unsettable	Rendering position of all EEnums within an EPackage.

Name	Aspect and Type	Properties	Description	
<pre>getEClassesPositio n()  ▼ config.</pre>	returns EInt	[01]	Traverses the tree to find the most specific positionEClasses setting.	
EcoreDocGeneratorConfig. getEClassesPosition()	<pre>if (isSetPositionFClasses) {</pre>			
<pre>getEDataTypesPosit ion()</pre>	returns EInt	[01]	Traverses the tree to find the most specific positionEDataTypes setting.	
▼ config. EcoreDocGeneratorConfig. getEDataTypesPosition()	<pre>if (isSetPositionEDataTypes) {</pre>			
getEEnumsPosition( )  ▼ config. EcoreDocGeneratorConfig. getEEnumsPosition( )	returns EInt	[01]	Traverses the tree to find the most specific positionEEnums setting.	
	<pre>if (isSetPositionFFnums) {</pre>			

### 7.23. Interface IEParameterConfig

#### Super-types

- config.IDefaultValueConfig
- config.IENamedElementConfig
- config.IETypedElementConfig

# 7.24. Interface IEReferenceConfig

#### Super-types

- config.IDefaultValueConfig
- config.IENamedElementConfig
- config.IEStructuralFeatureConfig

• config.IETypedElementConfig

### 7.25. Interface IEStructuralFeatureConfig

#### Super-types

- config.IDefaultValueConfig
- config.IENamedElementConfig
- config.IETypedElementConfig

# 7.26. Interface IETypedElementConfig

#### Super-types

- config.IDefaultValueConfig
- config.IENamedElementConfig

#### **Attributes**

Name	Туре	Properties	Description
renderBounds	EBoolean	[01] unsettable	Whether multiplicity bounds should be rendered, even if they are at their default values and renderDefaults = false.

#### **Operations**

Name	Aspect and Type	Properties	Description
shouldRenderBounds ()	returns EBoolean	[01]	Traverses the tree to find the most specific renderBounds setting.
▼ config. EcoreDocGeneratorConfig. shouldRenderBounds ()	<pre>if (isSetRender     renderBounds } else if(isSet     renderDefault } else {</pre>	RenderDefaults) s	{ :Config).shouldRenderBounds()

### 8. Versions

This asset in version 0.9.0-SNAPSHOT was developed using the following components and versions.

#### **Eclipse**

4.7.3a (Oxygen 3a)

#### **Google Guava**

19.0

#### **Apache Commons Lang3**

3.1

#### **Apache Commons IO**

2.2

#### **Apache Maven**

3.3.9

#### **Eclipse Ecore**

2.12.0

#### **Eclipse Xcore**

1.3.1

#### **Eclipse Tycho**

1.2.0

# 9. Known Issues

- If HTML is used in Ecore documentation, the PDF rendering can be faulty (Issue #12)
- EAnnotations are missing from the documentation (Issue #15)