

EcoreDoc User Guide

EC Modeling & Simulation

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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.

Chapter 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://github.com/altran-mde/ecore_doc. Please use the issue tracker at this site for any feature requests or bugs.

Chapter 2. Java API

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

The *Generator Configuration* is contained in Maven artifact and OSGi bundle `com.altran.general.emf.ecoredoc:com.altran.general.emf.ecoredoc.generator.config`.

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.

Chapter 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 strictly 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

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
    http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>

  <artifactId>my-artifact-id</artifactId>

  <dependencies>
    <dependency>
      <groupId>com.altran.general.emf.ecoredoc</groupId>
      <artifactId>ecoredoc-maven-plugin</artifactId>
    </dependency>
  </dependencies>
```

```

<build>
  <plugins>
    <plugin>
      <groupId>com.altran.general.emf.ecoredoc</groupId>
      <artifactId>ecoredoc-maven-plugin</artifactId>

      <!-- make sure EcoreDoc is actually executed -->
      <executions>
        <execution>
          <phase>test</phase>
          <goals>
            <goal>ecoredoc</goal>
          </goals>
        </execution>
      </executions>

      <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>
      </configuration>
    </plugin>
  </plugins>
</build>

```



```
        </ePackages>
    </config>
    <inputFiles>
        <inputFile>EPackage1.ecore</inputFile>
        <inputFile>EPackage2.ecore</inputFile>
    </inputFiles>
    <outputFile>output.adoc</outputFile>
</configuration>
</plugin>
</plugins>
</build>
</project>
```

This example sets the following configuration:

- `renderDefaults` for all contents: `false`
- `documentTitle`: `This is the title of my document`
- `repeatInherited` for `MyEClass`: `false`
- `render` for `specialNumber`: `false`
- `renderDefaults` for `Enum1`: `true`
- `renderDefaults` for `EPackage2`: `true`

Chapter 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 `${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

[+|-]diagrams: [Enable|disable] rendering of diagrams

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

Chapter 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.

Chapter 6. Eclipse Generation Factories Plug-in

The [EGF \(Eclipse Generation Factories\)](#) Plug-in is available as Feature `com.altran.general.emf.ecoredoc.egf.feature`.

EGF is a software factory tool with the purpose to generate software artifacts, such as code or application, in order to automate software development. The EcoreDoc EGF plug-in provides a *factory component* to generate EcoreDoc for one `*.ecore` file. This EcoreDoc *factory component* is also integrated in the *generation chain* for `*.ecore` files. More information on using *generation chains* can be found in the [EGF documentation](#)

Both the factory component as the generation chain support the following configuration settings:

domain (required)

The Ecore metamodel file to create documentation for.

projectName (required)

The Eclipse project name to use for generation. Combined with [outputFolder](#) this denotes the location to write the generated AsciiDoctor document to.

outputFolder (required)

The output folder to write the generated AsciiDoctor document to.

By convention, the generated file is `<projectName>/<outputFolder>/<domain_file_name>.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 [domain](#). Might be necessary for highly interconnected metamodels.

Chapter 7. 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.

7.1. 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 compatibility.

```
id : EString
  GenModel
    documentation -> Enables proper merging in {@link com.altran.general.emf.ecoredoc.util.EcoreMerger}.
    0.1
      render -> false
      (:) EString
```

| Properties | |
|------------|---|
| Property | Value |
| References | |
| Source | http://altran.com/general/emf/ecoredoc/generator/config/0.1 |

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

7.2. 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
```

Chapter 8. EOperation Overrides

EcoreDoc understands all possible kinds of inheritance and overrides and marks them accordingly.

We use the following example throughout the section.

```
class SomeClass {
    String myName
    contains SomeClass[0..*] others
}

class Class3 extends SomeClass {}

interface IFace1 {
    op void doIt()

    op void doIt(int i)
}

interface IFace2 {
    op void doIt()
}

abstract class AImplementer extends IFace1, IFace2 {
    op void doIt() {
        println("Hello, World!")
    }
}

interface IFace3 extends IFace1, IFace2 {}

class Implementer extends AImplementer, IFace3 {}

interface If1 {
    op Class3[1..8] getChildren()
}

interface If2 {
    op SomeClass getSome()
    op void setSome(SomeClass[1] someClass)
}

class Cls3 extends If1, If2 {
    contains Class3[] children

    refers SomeClass[1] some
}

class Cl4 {
    refers If1 iface
```

```

}

class Cl4b extends Cl4 {
  op Cls3 getIface() {
    super.iface as Cls3
  }

  op void setIface(Cls3 iface) {
    super.iface = iface
  }
}

```

Show inherited Features

If [repeatInherited](#) is enabled, we repeat all inherited features (i.e. *EAttributes*, containing *EReferences*, cross-referencing *EReferences*) from all super-types.

We link them to their declaration with symbol `⊔`.

We omit inherited features if they are overridden by an *EOperation* (see below).

In the example, we repeat `SomeClass.myName` and `SomeClass.others` in `Class3`.

Show inherited EOperations

If [repeatInherited](#) is enabled, we repeat all inherited *EOperations* from all super-types.

If several super-types declare the same *EOperation* (compared by signature), we repeat this *EOperation* only once and link to all the declarations with symbol `⊔`. If one of the declarations defines a body, we repeat that body.

We omit inherited *EOperations* if they are overridden by a Feature (see below).

In the example, we repeat both `Iface1.doIt()` and `Iface2.doIt()` once in `Iface3`, linking to both super-types. We also repeat `Iface1.doIt(i)` in `Iface3`.

Show overridden EOperations

If an *EOperation* defines a body and one or more super-types declare the same *EOperation* (compared by signature), we link to all the super-type declarations with symbol `⊔`.

In the example, we mark `AImplementer.doIt()` as overriding `Iface1.doIt()` and `Iface2.doIt()`.

Show overriding EOperations

If an *EOperation* is declared in one or more sub-types and they define a body, we link to all sub-types declarations with symbol `⊔`.

In the example, we mark both `Iface1.doIt()` and `Iface2.doIt()` as being overridden by `AImplementer.doIt()`.

Show Features overriding EOperation

If the generated code for a feature effectively overrides one or more inherited *EOperations*, we link from the feature to all overridden *EOperations* with symbol `⊔`.

In this case, we omit the inherited and overridden *EOperations*.

We also link to all features of all sub-types overriding an *EOperation* with symbol \square .

In the example, we mark `Cls3.children` as overriding `If1.getChildren()`, and `Cls3.some` as overriding both `If2.getSome()` and `If2.setSome()`.

Accordingly, we mark `If1.getChildren()` as being overridden by `Cls3.children`, and both `If2.getSome()` and `If2.setSome()` as being overridden by `Cls3.some`.

We also omit all the *EOperations* from `Cls3`, as they are effectively overridden by features.

Show EOperations overriding Features

If an *EOperation* effectively overrides the generated code of an inherited feature, we link from the *EOperation* to the overridden feature with symbol \square .

In this case, we omit the inherited and overridden feature.

We also link to all *EOperations* of all sub-types overriding a feature with symbol \square .

In the example, we mark both `C14b.getIface()` and `C14b.setIface()` as overriding `C14.iface`.

Accordingly, we mark `C14.iface` as being overridden by both `C14b.getIface()` and `C14b.setIface()`.

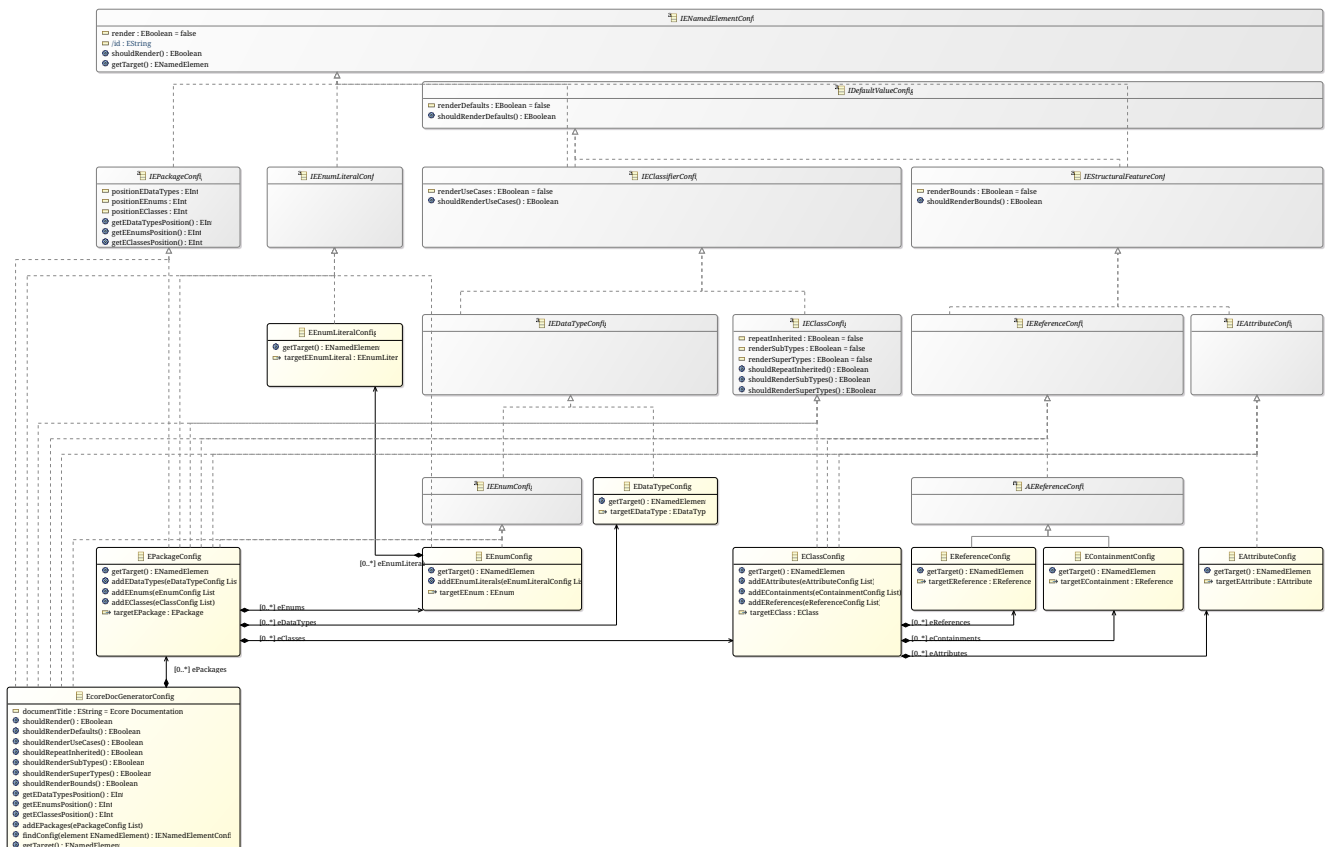
We also omit `iface` from `C14b` as it is effectively overridden by *EOperations*.

Chapter 9. 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 INamedElementConfig](#), 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

9.1. Abstract Class AEReferenceConfig

Super-types

- `config.IDefaultValueConfig`
- `config.INamedElementConfig`
- `config.IReferenceConfig`

- [config.IEStructuralFeatureConfig](#)
- [config.ITypedElementConfig](#)

9.2. Class EAttributeConfig

Super-types

- [config.IDefaultValueConfig](#)
- [config.IEAttributeConfig](#)
- [config.INamedElementConfig](#)
- [config.IEStructuralFeatureConfig](#)
- [config.ITypedElementConfig](#)

References

| Name | Type | Properties | Description |
|----------------------------------|----------------------------------|------------|-------------|
| targetEAttribute | ecore.EAttribute | [0..1] | |

Operations

| Name | Aspect and Type | Properties | Description |
|---|---|------------|-------------|
| getTarget() config.INamedElementConfig.getTarget() | <i>returns</i> ecore.ENamedElement | [0..1] | |
| targetEAttribute | | | |

Used at

- [config.EClassConfig.eAttributes](#)

9.3. Class EClassConfig

Super-types

- [config.IDefaultValueConfig](#)
- [config.IDiagramConfig](#)
- [config.IEAttributeConfig](#)
- [config.IEClassConfig](#)
- [config.IEClassifierConfig](#)
- [config.INamedElementConfig](#)
- [config.IEOperationConfig](#)
- [config.IEParameterConfig](#)
- [config.IEReferenceConfig](#)

- [config.IEStructuralFeatureConfig](#)
- [config.ITypedElementConfig](#)

Containments

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

References

| Name | Type | Properties | Description |
|--------------|------------------------------|------------|-------------|
| targetEClass | ecore.EClass | [0..1] | |

Operations

| Name | Aspect and Type | Properties | Description |
|--|---|------------|--|
| addEAttributes(eAttributeConfig) | returns void | [0..1] | Helper method for {@linkplain org.eclipse.sisu.plexus.CompositeBeanHelper#setProperty()} to handle ELists correctly. |
| | eAttributeConfig config.List | [0..1] | |
| | EAttributes += eAttributeConfig | | |
| addEContainments(eContainmentConfig) | returns void | [0..1] | Helper method for {@linkplain org.eclipse.sisu.plexus.CompositeBeanHelper#setProperty()} to handle ELists correctly. |
| | eContainmentConfig ig config.List | [0..1] | |
| | EContainments += eContainmentConfig | | |

| Name | Aspect and Type | Properties | Description |
|---|------------------------------------|------------|--|
| addEOperations(eOperationConfig) | returns void | [0..1] | Helper method for {@linkplain org.eclipse.sisu.plexus.CompositeBeanHelper#setProperty()} to handle ELists correctly. |
| | eOperationConfig config.List | [0..1] | |
| | EOperations += eOperationConfig | | |
| addEReferences(eReferenceConfig) | returns void | [0..1] | Helper method for {@linkplain org.eclipse.sisu.plexus.CompositeBeanHelper#setProperty()} to handle ELists correctly. |
| | eReferenceConfig config.List | [0..1] | |
| | EReferences += eReferenceConfig | | |
| getTarget() config. INamedElementConfig. getTarget() | returns ecore. ENamedElement | [0..1] | |
| | targetEClass | | |

Used at

- [config.EPackageConfig.eClasses](#)

9.4. Class EContainmentConfig

Super-types

- [config.AEReferenceConfig](#)
- [config.IDefaultValueConfig](#)
- [config.INamedElementConfig](#)
- [config.IEReferenceConfig](#)
- [config.IEStructuralFeatureConfig](#)
- [config.IETypedElementConfig](#)

References

| Name | Type | Properties | Description |
|--------------------|------------------|------------|-------------|
| targetEContainment | ecore.EReference | [0..1] | |

Operations

| Name | Aspect and Type | Properties | Description |
|--|--|---------------------|-------------|
| <code>getTarget()</code> [] <code>config.INamedElementConfig.getTarget()</code> | <i>returns</i> <code>ecore.ENamedElement</code> | <code>[0..1]</code> | |
| targetEContainment | | | |

Used at

- `config.EClassConfig.eContainments`

9.5. Class EDataTypeConfig

Super-types

- `config.IDefaultValueConfig`
- `config.IDiagramConfig`
- `config.IEClassifierConfig`
- `config.IEDataTypeConfig`
- `config.IENamedElementConfig`

References

| Name | Type | Properties | Description |
|------------------------------|------------------------------|---------------------|-------------|
| <code>targetEDataType</code> | <code>ecore.EDataType</code> | <code>[0..1]</code> | |

Operations

| Name | Aspect and Type | Properties | Description |
|--|--|---------------------|-------------|
| <code>getTarget()</code> [] <code>config.INamedElementConfig.getTarget()</code> | <i>returns</i> <code>ecore.ENamedElement</code> | <code>[0..1]</code> | |
| targetEDataType | | | |

Used at

- `config.EPackageConfig.eDataTypes`

9.6. Class EEnumConfig

Super-types

- `config.IDefaultValueConfig`

- [config.IDiagramConfig](#)
- [config.IEClassifierConfig](#)
- [config.IEDataTypeConfig](#)
- [config.IEEnumConfig](#)
- [config.IEEnumLiteralConfig](#)
- [config.IENamedElementConfig](#)

Containments

| Name | Type | Properties | Description |
|-------------------------------|---|------------|-------------|
| eEnumLiterals | config.EEnumLiteralConfig | [0..*] | |

References

| Name | Type | Properties | Description |
|-----------------------------|-----------------------------|------------|-------------|
| targetEEnum | ecore.EEnum | [0..1] | |

Operations

| Name | Aspect and Type | Properties | Description |
|--|---|------------|--|
| addEEnumLiterals(eEnumLiteralConfig) | <i>returns</i> void | [0..1] | Helper method for <code>{@link plain org.eclipse.sisu.plexus.CompositeBeanHelper#setProperty()}</code> to handle ELists correctly. |
| | eEnumLiteralConfig config.List | [0..1] | |
| | EEnumLiterals += eEnumLiteralConfig | | |
| getTarget() config.IENamedElementConfig.getTarget() | <i>returns</i> ecore.ENamedElement | [0..1] | |
| | targetEEnum | | |

Used at

- [config.EPackageConfig.eEnums](#)

9.7. Class EEnumLiteralConfig

Super-types

- [config.IEEnumLiteralConfig](#)

- [config.INamedElementConfig](#)

References

| Name | Type | Properties | Description |
|---------------------------------|---------------------------------|---------------------|-------------|
| <code>targetEEnumLiteral</code> | <code>ecore.EEnumLiteral</code> | <code>[0..1]</code> | |

Operations

| Name | Aspect and Type | Properties | Description |
|--|--|---------------------|-------------|
| <code>getTarget()</code> config.INamedElementConfig.getTarget() | <code>returns</code> <code>ecore.INamedElement</code> | <code>[0..1]</code> | |
| <div>targetEEnumLiteral</div> | | | |

Used at

- [config.EEnumConfig.eEnumLiterals](#)

9.8. Class EOperationConfig

Super-types

- [config.AEReferenceConfig](#)
- [config.IDefaultValueConfig](#)
- [config.INamedElementConfig](#)
- [config.IEReferenceConfig](#)
- [config.IEStructuralFeatureConfig](#)
- [config.ITypedElementConfig](#)

Containments

| Name | Type | Properties | Description |
|--------------------------|---|---------------------|-------------|
| <code>eParameters</code> | config.EParameterConfig | <code>[0..*]</code> | |

References

| Name | Type | Properties | Description |
|-------------------------------|-------------------------------|---------------------|-------------|
| <code>targetEOperation</code> | <code>ecore.EOperation</code> | <code>[0..1]</code> | |

Operations

| Name | Aspect and Type | Properties | Description |
|---|--|------------|--|
| addEParameters(eParameterConfig) | returns void | [0..1] | Helper method for {@linkplain org.eclipse.sisu.plexus.CompositeBeanHelper#setProperty()} to handle ELists correctly. |
| | eParameterConfig config.List | [0..1] | |
| | EParameters += eParameterConfig | | |
| getId() [] config. IENamedElementConfig.id | returns EString | [0..1] | |
| | targetEOperation?.joinId | | |
| getTarget() [] config. IENamedElementConfig. getTarget() | returns ecore. ENamedElement | [0..1] | |
| | targetEOperation | | |
| joinId(eOperation) | returns EString | [0..1] | |
| | eOperation ecore.EOperation | [0..1] | |
| | eOperation.name + eOperation.EParameters.map[(EType?.eContainer as ENamedElement)?.name + "_" + EType?.name].join(".") | | |

Used at

- [config.EClassConfig.eOperations](#)

9.9. Class EPackageConfig

Super-types

- [config.IDefaultValueConfig](#)
- [config.IDiagramConfig](#)
- [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 | Type | Properties | Description |
|------------|--|------------|-------------|
| eClasses | config.EClassConfig | [0..*] | |
| eDataTypes | config.EDataTypeConfig | [0..*] | |
| eEnums | config.EEnumConfig | [0..*] | |

References

| Name | Type | Properties | Description |
|----------------|--------------------------------|------------|-------------|
| targetEPackage | ecore.EPackage | [0..1] | |

Operations

| Name | Aspect and Type | Properties | Description |
|-------------------------------|-----------------------------|------------|--|
| addEClasses(eClassConfig) | returns void | [0..1] | Helper method for {@linkplain org.eclipse.sisu.plexus.CompositeBeanHelper#setProperty()} to handle ELists correctly. |
| | eClassConfig config.List | [0..1] | |
| | EClasses += eClassConfig | | |

| Name | Aspect and Type | Properties | Description |
|---|------------------------------------|------------|--|
| addEDataTypes(eDataTypeConfig) | returns void | [0..1] | Helper method for {@linkplain org.eclipse.sisu.plexus.CompositeBeanHelper#setProperty()} to handle ELists correctly. |
| | eDataTypeConfig config.List | [0..1] | |
| | EDataTypes += eDataTypeConfig | | |
| addEEnums(eEnumConfig) | returns void | [0..1] | Helper method for {@linkplain org.eclipse.sisu.plexus.CompositeBeanHelper#setProperty()} to handle ELists correctly. |
| | eEnumConfig config.List | [0..1] | |
| | EEnums += eEnumConfig | | |
| getTarget() config. INamedElementConfig. getTarget() | returns ecore. ENamedElement | [0..1] | |
| | targetEPackage | | |

Used at

- [config.EcoreDocGeneratorConfig.ePackages](#)

9.10. Class EParameterConfig

Super-types

- [config.AEReferenceConfig](#)
- [config.IDefaultValueConfig](#)
- [config.INamedElementConfig](#)
- [config.IEReferenceConfig](#)
- [config.IEStructuralFeatureConfig](#)
- [config.IETypedElementConfig](#)

References

| Name | Type | Properties | Description |
|------------------|------------------|------------|-------------|
| targetEParameter | ecore.EParameter | [0..1] | |

Operations

| Name | Aspect and Type | Properties | Description |
|--|--|---------------------|-------------|
| <code>getTarget()</code> [] <code>config.INamedElementConfig.getTarget()</code> | <i>returns</i> <code>ecore.ENamedElement</code> | <code>[0..1]</code> | |
| targetEParameter | | | |

Used at

- `config.EOperationConfig.eParameters`

9.11. Class EReferenceConfig

Super-types

- `config.AEReferenceConfig`
- `config.IDefaultValueConfig`
- `config.INamedElementConfig`
- `config.IEReferenceConfig`
- `config.IStructuralFeatureConfig`
- `config.ITypedElementConfig`

References

| Name | Type | Properties | Description |
|-------------------------------|-------------------------------|---------------------|-------------|
| <code>targetEReference</code> | <code>ecore.EReference</code> | <code>[0..1]</code> | |

Operations

| Name | Aspect and Type | Properties | Description |
|--|--|---------------------|-------------|
| <code>getTarget()</code> [] <code>config.INamedElementConfig.getTarget()</code> | <i>returns</i> <code>ecore.ENamedElement</code> | <code>[0..1]</code> | |
| targetEReference | | | |

Used at

- `config.EClassConfig.eReferences`

9.12. 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
```

Result:

EPackage1

renderDefaults false
repeatInherited false

EClass1

renderDefaults false
repeatInherited false

EAttribute1

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.IDiagramConfig](#)
- [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.ITypedElementConfig](#)

Attributes

| Name | Type | Properties | Description |
|----------------------|---------|---|--|
| diagramsOutputFormat | EString | [0..1] Default: <i>svg</i> | The output-format of diagrams in the generated document. For supported outputs, see Asciidoctor Documentation. defaults to <i>svg</i> . |
| diagramsOutputPath | EString | [0..1] Default: <i>.</i> | The output path of diagrams in the generated document. defaults to the current directory. |
| documentTitle | EString | [0..1] Default: <i>Ecore Documentation</i> | Title of the generated document. defaults to <i>Ecore Documentation</i> . |

Containments

| Name | Type | Properties | Description |
|-----------|---------------------------------------|------------|-------------|
| ePackages | config.EPackageConfig | [0..*] | |

Operations

| Name | Aspect and Type | Properties | Description |
|----------------------------------|-------------------------------|------------|---|
| addEPackages(ePackageConfig) | returns void | [0..1] | Helper method for <code>{@linkplain org.eclipse.sisu.plexus.CompositeBeanHelper#setProperty()}</code> to handle ELists correctly. |
| | ePackageConfig config.List | [0..1] | |
| | EPackages += ePackageConfig | | |

| Name | Aspect and Type | Properties | Description |
|--|---|------------|---|
| findConfig(element) | returns config. INamedElementConfig | [0..1] | Convenience method to map ENamedElement → config. |
| | element ecore. ENamedElement | [0..1] | |
| | <pre> switch (element) { EPackage: EPackages EEnum: EPackages.flatMap[EEnums] EDataType: EPackages.flatMap[EDataTypes] EEnumLiteral: EPackages.flatMap[EEnums].flatMap[EEnumLiterals] EClass: EPackages.flatMap[EClasses] EAttribute: EPackages.flatMap[EClasses].flatMap[EAttributes] EReference case (element.isContainment): EPackages.flatMap[EClasses].flatMap[EContainments] EReference case (!element.isContainment): EPackages.flatMap[EClasses].flatMap[EReferences] EOperation: EPackages.flatMap[EClasses].flatMap[EOperations] EParameter: EPackages.flatMap[EClasses].flatMap[EOperations] .flatMap[EParameters] }.findFirst[target == element] </pre> | | |
| getEClassesPosition() [] config.IEPackageConfig. getEClassesPosition() | returns EInt | [0..1] | Sets default for positionEClasses = 3. |
| | <pre> if (isSetPositionEClasses) { positionEClasses } else { 3 } </pre> | | |

| Name | Aspect and Type | Properties | Description |
|--|---|---------------|---|
| getEDataTypesPosition() <code>config.IEPackageConfig. getEDataTypesPosition()</code> | <i>returns</i> EInt | [0..1] | Sets default for positionEDataTypes = 1. |
| <pre> if (isSetPositionEDataTypes) { positionEDataTypes } else { 1 } </pre> | | | |
| getEEnumsPosition() <code>config.IEPackageConfig. getEEnumsPosition()</code> | <i>returns</i> EInt | [0..1] | Sets default for positionEEnums = 2. |
| <pre> if (isSetPositionEEnums) { positionEEnums } else { 2 } </pre> | | | |
| getTarget() <code>config. INamedElementConfig. getTarget()</code> | <i>returns</i> ecore. ENamedElement | [0..1] | |
| <pre> null </pre> | | | |
| shouldRender() <code>config. INamedElementConfig. shouldRender()</code> | <i>returns</i> EBoolean | [0..1] | Sets default for render = true. |
| <pre> if (isSetRender) { render } else { true } </pre> | | | |
| shouldRenderBounds() <code>config. IETypedElementConfig. shouldRenderBounds()</code> | <i>returns</i> EBoolean | [0..1] | Sets default for renderBounds = shouldRenderDefaults(). |
| <pre> if (isSetRenderBounds) { renderBounds } else { shouldRenderDefaults() } </pre> | | | |

| Name | Aspect and Type | Properties | Description |
|---|-----------------------------------|---------------|---|
| shouldRenderDefaults() <code>config.IDefaultValueConfig.shouldRenderDefaults()</code> | <i>returns</i> EBoolean | [0..1] | Sets default for renderDefaults = true. |
| <pre> if (isSetRenderDefaults) { renderDefaults } else { true } </pre> | | | |
| shouldRenderDiagrams() <code>config.IDiagramConfig.shouldRenderDiagrams()</code> | <i>returns</i> EBoolean | [0..1] | |
| <pre> if (isSetRenderDiagrams) { renderDiagrams } else { false } </pre> | | | |
| shouldRenderSubTypes() <code>config.IEClassConfig.shouldRenderSubTypes()</code> | <i>returns</i> EBoolean | [0..1] | Sets default for renderSubTypes = true. |
| <pre> if (isSetRenderSubTypes) { renderSubTypes } else { true } </pre> | | | |
| shouldRenderSuperTypes() <code>config.IEClassConfig.shouldRenderSuperTypes()</code> | <i>returns</i> EBoolean | [0..1] | Sets default for RenderSuperTypes = true. |
| <pre> if (isSetRenderSuperTypes) { renderSuperTypes } else { true } </pre> | | | |
| shouldRenderUseCases() <code>config.IEClassifierConfig.shouldRenderUseCases()</code> | <i>returns</i> EBoolean | [0..1] | Sets default for renderUseCases = true. |
| <pre> if (isSetRenderUseCases) { renderUseCases } else { true } </pre> | | | |

| Name | Aspect and Type | Properties | Description |
|---|---------------------|------------|--|
| <code>shouldRepeatInherited()</code> <code>config.IEClassConfig.shouldRepeatInherited()</code> | returns EBoolean | [0..1] | Sets default for repeatInherited = true. |
| <pre> if (isSetRepeatInherited) { repeatInherited } else { true } </pre> | | | |

9.13. Interface IDefaultValueConfig

Attributes

| Name | Type | Properties | Description |
|----------------|----------|----------------------|--|
| renderDefaults | EBoolean | [0..1] 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. |

Operations

| Name | Aspect and Type | Properties | Description |
|--|---------------------|------------|--|
| <code>shouldRenderDefaults()</code> <code>config.EcoreDocGeneratorConfig.shouldRenderDefaults()</code> | returns EBoolean | [0..1] | Traverses the tree to find the most specific renderDefaults setting. |
| <pre> if (isSetRenderDefaults) { renderDefaults } else { (eContainer as IDefaultValueConfig).shouldRenderDefaults() } </pre> | | | |

9.14. Interface IDiagramConfig

Attributes

| Name | Type | Properties | Description |
|----------------|----------|----------------------|--------------------------------------|
| renderDiagrams | EBoolean | [0..1] unsettable | Whether diagrams should be rendered. |

Operations

| Name | Aspect and Type | Properties | Description |
|---|---|---------------------|--|
| <code>shouldRenderDiagrams()</code> <code>config.EcoreDocGeneratorConfig.shouldRenderDiagrams()</code> | <i>returns</i> <code>EBoolean</code> | <code>[0..1]</code> | Traverses the tree to find the most specific renderDiagrams setting. |
| <pre>if (isSetRenderDiagrams) { renderDiagrams } else { (eContainer as IDiagramConfig).shouldRenderDiagrams() }</pre> | | | |

9.15. Interface IEAttributeConfig

Super-types

- `config.IDefaultValueConfig`
- `config.INamedElementConfig`
- `config.IStructuralFeatureConfig`
- `config.ITypedElementConfig`

9.16. Interface IEClassConfig

Super-types

- `config.IDefaultValueConfig`
- `config.IDiagramConfig`
- `config.IEClassifierConfig`
- `config.INamedElementConfig`

Attributes

| Name | Type | Properties | Description |
|-------------------------------|-----------------------|-----------------------------------|---|
| <code>renderSubTypes</code> | <code>EBoolean</code> | <code>[0..1]</code> unsettable | Whether the list of sub-types should be rendered. |
| <code>renderSuperTypes</code> | <code>EBoolean</code> | <code>[0..1]</code> unsettable | Whether the list of super-types should be rendered. |

| Name | Type | Properties | Description |
|------------------------------|-----------------------|-----------------------------------|---|
| <code>repeatInherited</code> | <code>EBoolean</code> | <code>[0..1]</code> unsettable | Whether inherited features should be repeated. Example: <code>EClass1</code> has an <code>EAttribute</code> <code>name=attr1</code> . <code>EClass2</code> extends <code>EClass1</code> . If <code>repeatInherited = true</code> for <code>EClass2</code> , <code>attr1</code> will be listed in the section of <code>EClass1</code> and <code>EClass2</code> . Otherwise, <code>attr1</code> will only be listed in the section of <code>EClass1</code> . |

Operations

| Name | Aspect and Type | Properties | Description |
|---|----------------------------------|---------------------|---|
| <code>shouldRenderSubTypes()</code> <code>config.EcoreDocGeneratorConfig.shouldRenderSubTypes()</code> | returns <code>EBoolean</code> | <code>[0..1]</code> | Traverses the tree to find the most specific <code>renderSubTypes</code> setting. <pre> if (isSetRenderSubTypes) { renderSubTypes } else { (eContainer as IEClassConfig).shouldRenderSubTypes() } </pre> |
| <code>shouldRenderSuperTypes()</code> <code>config.EcoreDocGeneratorConfig.shouldRenderSuperTypes()</code> | returns <code>EBoolean</code> | <code>[0..1]</code> | Traverses the tree to find the most specific <code>renderSuperTypes</code> setting. <pre> if (isSetRenderSuperTypes) { renderSuperTypes } else { (eContainer as IEClassConfig).shouldRenderSuperTypes() } </pre> |
| <code>shouldRepeatInherited()</code> <code>config.EcoreDocGeneratorConfig.shouldRepeatInherited()</code> | returns <code>EBoolean</code> | <code>[0..1]</code> | Traverses the tree to find the most specific <code>repeatInherited</code> setting. <pre> if (isSetRepeatInherited) { repeatInherited } else { (eContainer as IEClassConfig).shouldRepeatInherited() } </pre> |

9.17. Interface IEClassifierConfig

Super-types

- `config.IDefaultValueConfig`

- [config.IDiagramConfig](#)
- [config.INamedElementConfig](#)

Attributes

| Name | Type | Properties | Description |
|-----------------------------|-----------------------|-----------------------------------|--|
| <code>renderUseCases</code> | <code>EBoolean</code> | <code>[0..1]</code> unsettable | Whether use cases (references to other usages of this element) should be rendered. |

Operations

| Name | Aspect and Type | Properties | Description |
|---|---|---------------------|---|
| <code>shouldRenderUseCases()</code> <code>config.EcoreDocGeneratorConfig.shouldRenderUseCases()</code> | <i>returns</i> <code>EBoolean</code> | <code>[0..1]</code> | Traverses the tree to find the most specific <code>renderUseCases</code> setting. |
| <pre> if (isSetRenderUseCases) { renderUseCases } else { (eContainer as IEClassifierConfig).shouldRenderUseCases() } </pre> | | | |

9.18. Interface IEDataTypeConfig

Super-types

- [config.IDefaultValueConfig](#)
- [config.IDiagramConfig](#)
- [config.IEClassifierConfig](#)
- [config.INamedElementConfig](#)

9.19. Interface IEnumConfig

Super-types

- [config.IDefaultValueConfig](#)
- [config.IDiagramConfig](#)
- [config.IEClassifierConfig](#)
- [config.IEDataTypeConfig](#)
- [config.INamedElementConfig](#)

9.20. Interface IEnumLiteralConfig

Super-types

- [config.INamedElementConfig](#)

9.21. Interface INamedElementConfig

Attributes

| Name | Type | Properties | Description |
|---------------------|-----------------------|-----------------------------------|---|
| <code>render</code> | <code>EBoolean</code> | <code>[0..1]</code> unsettable | Whether this element should be rendered at all. |

Operations

| Name | Aspect and Type | Properties | Description |
|--|--|---------------------|---------------------------------|
| <i>abstract</i> <code>getTarget()</code> <code>config.EAttributeConfig.getTarget()</code> <code>config.EClassConfig.getTarget()</code> <code>config.EContainmentConfig.getTarget()</code> <code>config.EDatatypeConfig.getTarget()</code> <code>config.EEnumConfig.getTarget()</code> <code>config.EEnumLiteralConfig.getTarget()</code> <code>config.EOperationConfig.getTarget()</code> <code>config.ETypesConfig.getTarget()</code> <code>config.EParameterConfig.getTarget()</code> <code>config.EReferenceConfig.getTarget()</code> <code>config.EcoreDocGeneratorConfig.getTarget()</code> | <i>returns</i> <code>ecore.ENamedElement</code> | <code>[0..1]</code> | Link to the configured element. |

| Name | Aspect and Type | Properties | Description |
|--|-----------------------------------|---------------|--|
| <code>shouldRender()</code> <code>config.EcoreDocGeneratorConfig.shouldRender()</code> | <i>returns</i> EBoolean | [0..1] | Traverses the tree to find the most specific render setting. |
| <pre> if (isSetRender) { render } else { (eContainer as INamedElementConfig).shouldRender() } </pre> | | | |

Used at

- `config.EcoreDocGeneratorConfig.findConfig(element)`

9.22. Interface IEOperationConfig

Super-types

- `config.IDefaultValueConfig`
- `config.INamedElementConfig`
- `config.ITypedElementConfig`

9.23. Interface IEPackageConfig

Super-types

- `config.IDiagramConfig`
- `config.INamedElementConfig`

Attributes

| Name | Type | Properties | Description |
|---------------------------|-------------|-----------------------------|--|
| positionEClasses | EInt | [0..1] unsettable | Rendering position of all EClasses within an EPackage. |
| positionEDataTypes | EInt | [0..1] unsettable | Rendering position of all EDataTypes within an EPackage. |
| positionEEnums | EInt | [0..1] unsettable | Rendering position of all EEnums within an EPackage. |

Operations

| Name | Aspect and Type | Properties | Description |
|---|------------------------|---------------|--|
| getEClassesPosition() <code>config.EcoreDocGeneratorConfig.getEClassesPosition()</code> | returns EInt | [0..1] | Traverses the tree to find the most specific positionEClasses setting. |
| <pre> if (isSetPositionEClasses) { positionEClasses } else { (eContainer as IEPackageConfig).getEClassesPosition() } </pre> | | | |
| getEDataTypesPosition() <code>config.EcoreDocGeneratorConfig.getEDataTypesPosition()</code> | returns EInt | [0..1] | Traverses the tree to find the most specific positionEDataTypes setting. |
| <pre> if (isSetPositionEDataTypes) { positionEDataTypes } else { (eContainer as IEPackageConfig).getEDataTypesPosition() } </pre> | | | |
| getEEnumsPosition() <code>config.EcoreDocGeneratorConfig.getEEnumsPosition()</code> | returns EInt | [0..1] | Traverses the tree to find the most specific positionEEnums setting. |
| <pre> if (isSetPositionEEnums) { positionEEnums } else { (eContainer as IEPackageConfig).getEEnumsPosition() } </pre> | | | |

9.24. Interface IEPackageConfig

Super-types

- `config.IDefaultValueConfig`
- `config.INamedElementConfig`
- `config.ITypedElementConfig`

9.25. Interface IEReferenceConfig

Super-types

- `config.IDefaultValueConfig`
- `config.INamedElementConfig`
- `config.IStructuralFeatureConfig`
- `config.ITypedElementConfig`

9.26. Interface IStructuralFeatureConfig

Super-types

- [config.IDefaultValueConfig](#)
- [config.INamedElementConfig](#)
- [config.ITypedElementConfig](#)

9.27. Interface ITypedElementConfig

Super-types

- [config.IDefaultValueConfig](#)
- [config.INamedElementConfig](#)

Attributes

| Name | Type | Properties | Description |
|---------------------------|-----------------------|-----------------------------------|--|
| <code>renderBounds</code> | <code>EBoolean</code> | <code>[0..1]</code> unsettable | Whether multiplicity bounds should be rendered, even if they are at their default values and <code>renderDefaults = false</code> . |

Operations

| Name | Aspect and Type | Properties | Description |
|---|---|---------------------|---|
| <code>shouldRenderBounds()</code> <code>config.EcoreDocGeneratorConfig.shouldRenderBounds()</code> | <i>returns</i> <code>EBoolean</code> | <code>[0..1]</code> | Traverses the tree to find the most specific <code>renderBounds</code> setting. <pre>if (isSetRenderBounds) { renderBounds } else if(isSetRenderDefaults) { renderDefaults } else { (eContainer as ITypedElementConfig).shouldRenderBounds() }</pre> |

Chapter 10. Versions

This asset in version 2024-11-26 15:12 UTC was developed using the following components and versions.

| | |
|-----------------------------|----------------|
| Eclipse | 4.16 (2020-06) |
| Google Guava | 27.1 |
| Apache Commons Lang3 | 3.10 |
| Apache Commons IO | 2.2 |
| Apache Maven | 3.3.9 |
| Eclipse Ecore | 2.22.0 |
| Eclipse Xcore | 1.14.0 |
| Eclipse Tycho | 1.7.0 |

Chapter 11. Known Issues

- If HTML is used in Ecore documentation, the PDF rendering can be faulty ([Issue #2](#))
- `EAnnotations` are missing from the documentation ([Issue #3](#))