$project.name

$DocumentTitle

Author: $Author

Revision: $Revisions.lastChild.name

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| $CompanyName |  |
| $CompanyAddress | $date.get(“MMMMM dd, yyyy”) |

**Approval**

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| The original of this document is approved and signed by:  Name:  Surname:  Title:  Date:  Signature: |

**Revision History**

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| --- | --- | --- | --- |
| **Revision** | **Date** | **Description** | **Author** |
| #forrow($rev in $Revisions)  $rev.name | $rev.date | $rev.description | $rev.author #endrow |
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# **Introduction**

## **Purpose**

$Purpose

## **Scope**

$Scope

## **Model Specification**

$Overview

#macro (removeLineBreak $s)

#set ($displayedName = “”)

#foreach ($c in $s.toCharArray())

#if($c.getType($c)==15)

#set($displayedName = $displayedName.concat(“ “))

#else

#set($displayedName = $displayedName.concat($c.toString()))

#end

#end

#end

#set($packages = $array.createArray())

#set($void = $array.addCollection($packages, $Package))

#set($void = $array.addCollection($packages, $SmartPackage))

#foreach ($package in $sorter.sort($packages, “qualifiedName”))

#set($qualifiedName = $package.qualifiedName)

# **Package $qualifiedName**

$package.documentation

#if ($package.hasImage())

$package.image

1. $package.name

#end

|  |  |
| --- | --- |
| **Name** | $package.name |
| **Qualified Name** | $qualifiedName |

#set ($classList = $array.createArray())

#set ($interfaceList = $array.createArray())

#set ($enumerationList = $array.createArray())

#foreach ($element in $report.getOwnedElementsIncludingAdditional($package, true))

#if ($element.elementType == “class”)

#set ($void = $classList.add($element))

#elseif ($element.elementType == “interface”)

#set ($void = $interfaceList.add($element))

#elseif ($element.elementType == “enumeration”)

#set ($void = $enumerationList.add($element))

#end

#end

#foreach ($class in $sorter.sort($classList))

## **Class $bookmark.create($class.ID, $class.name)**

$class.documentation

#if ($class.hasImage())

$class.image

1. $class.name

#end

|  |  |
| --- | --- |
| **Name** | $class.name |
| **Qualified Name** | $class.qualifiedName |
| **Visibility** | $class.visibility |
| **Abstract** | $class.isAbstract |
| **Base Classifier** | #if ($class.hasGeneralization())  #set($genList=$array.createArray())  #foreach ($general in $class.generalization)  #set($tmp=$genList.add($general.general))  #end  #foreach($gen in $sorter.sort($genList))   * $bookmark.open($gen.ID, $gen.name)   #end  #end |
| **Realized Interface** | #if ($class.hasInterfaceRealization())  #set($realList=$array.createArray())  #foreach ($realize in $class.interfaceRealization)  #set($tmp=$realList.add($realize.contract))  #end  #foreach($real in $sorter.sort($realList))   * $bookmark.open($real.ID, $real.name)   #end  #end |

#if ($class.hasOwnedAttribute())

### **Attribute Detail**

#foreach ($attr in $sorter.sort($class.ownedAttribute))

#### $attr.name

$attr.documentation

|  |  |
| --- | --- |
| **Type** | $attr.type.name |
| **Default Value** | #if($attr.defaultValue && $attr.defaultValue.hasText())  $attr.defaultValue.text  #end |
| **Visibility** | $attr.visibility |
| **Multiplicity** | $attr.multiplicity |

#end

#end

#if ($class.hasOwnedOperation())

### **Operation Detail**

#foreach ($ope in $sorter.sort($class.ownedOperation))

#### $ope.name

$ope.documentation

|  |  |
| --- | --- |
| **Type** | $ope.type.name |
| **Visibility** | $ope.visibility |
| **Is Abstract** | $ope.isAbstract |
| **Parameter** | #set ($paraList = $array.createArray())  #foreach($para in $sorter.sort($ope.ownedParameter))  #if($para.direction!=”return”)  #set ($void = $paraList.add($para))  #end  #end  #foreach($para in $sorter.sort($paraList))  #set($paraName = “$para.direction $para.name : $para.type.name”)  #if($para.multiplicity!=””)  #set($paraName = “$paraName [$para.multiplicity]”)  #end  #if($para.defaultValue && $para.defaultValue.hasText())  #set($paraName = $para.defaultValue.text)  #end   * $paraName   #end |

#end

#end

#set($relationList = $report.getRelationship($class))

$group.init()

#foreach ($relation in $relationList)

#set($void = $group.put($relation.humanType, $relation))

#end

#if (!$relationList.isEmpty())

### **Relation Detail**

#foreach ($key in $sorter.sort($group.groupNames()))

#### $key

#foreach($rel in $sorter.sort($group.get($key)))

|  |  |
| --- | --- |
| **Name** | #if($rel.hasName())  $rel.name#end |
| **Related Element** | #foreach ($re in $sorter.sort($rel.relatedElement))  #if($re != $class)   * $re.name   #end  #end |

#end

#end

#end

#end

#foreach ($interface in $sorter.sort($interfaceList))

## **Interface $bookmark.create($interface.ID, $interface.name)**

$interface.documentation

#if ($interface.hasImage())

$interface.image

1. $interface.name

#end

|  |  |
| --- | --- |
| **Name** | $interface.name |
| **Qualified Name** | $interface.qualifiedName |
| **Visibility** | $interface.visibility |
| **Base Classifier** | #if ($interface.hasGeneralization())  #set($genList=$array.createArray())  #foreach ($general in $interface.generalization)  #set($tmp=$genList.add($general.general))  #end  #foreach($gen in $sorter.sort($genList))   * $bookmark.open($gen.ID, $gen.name)   #end  #end |

#if ($interface.hasOwnedAttribute())

### **Attribute Detail**

#foreach ($attr in $sorter.sort($interface.ownedAttribute))

#### $attr.name

$attr.documentation

|  |  |
| --- | --- |
| **Type** | $attr.type.name |
| **Default Value** | #if($attr.defaultValue && $attr.defaultValue.hasText())  $attr.defaultValue.text  #end |
| **Visibility** | $attr.visibility |
| **Multiplicity** | $attr.multiplicity |

#end

#end

#if ($interface.hasOwnedOperation())

### **Operation Detail**

#foreach ($ope in $sorter.sort($interface.ownedOperation))

#### $ope.name

**Description**

$ope.documentation

|  |  |
| --- | --- |
| **Type** | $ope.type.name |
| **Visibility** | $ope.visibility |
| **Is Abstract** | $ope.isAbstract |
| **Parameter** | #set ($paraList = $array.createArray())  #foreach($para in $sorter.sort($ope.ownedParameter))  #if($para.direction!=”return”)  #set ($void = $paraList.add($para))  #end  #end  #foreach($para in $sorter.sort($paraList))  #set($paraName = “$para.direction $para.name : $para.type.name”)  #if($para.multiplicity!=””)  #set($paraName = “$paraName [$para.multiplicity]”)  #end  #if($para.defaultValue && $para.defaultValue.hasText())  #set($paraName = $paraName.concat(“=”).concat($para.defaultValue.text))  #end   * $paraName   #end |

#end

#end

#set($relationList = $report.getRelationship($interface))

$group.init()

#foreach ($relation in $relationList)$group.put($relation.humanType, $relation)#end

#if (!$relationList.isEmpty())

### **Relation Detail**

#foreach ($key in $sorter.sort($group.groupNames()))

#### $key

#foreach($rel in $sorter.sort($group.get($key)))

|  |  |
| --- | --- |
| **Name** | #if($rel.hasName())  $rel.name#end |
| **Related Element** | #foreach ($re in $sorter.sort($rel.relatedElement))  #if($re != $interface)   * $re.name   #end  #end |

#end

#end

#end

#end

#foreach ($enum in $sorter.sort($enumerationList))

## **Enumeration $bookmark.create($enum.ID, $enum.name)**

$enum.documentation

#if ($enum.hasImage())

$enum.image

1. $enum.name

#end

|  |  |
| --- | --- |
| **Name** | $enum.name |
| **Qualified Name** | $enum.qualifiedName |
| **Visibility** | $enum.visibility |
| **Base Classifier** | #foreach ($classifier in $sorter.sort($enum.baseClassifier))   * $bookmark.open($classifier.ID, $classifier.name)   #end |

#set($relationList = $report.getRelationship($enum))

$group.init()

#foreach ($relation in $relationList)$group.put($relation.humanType, $relation)#end

#if (!$relationList.isEmpty())

### **Relation Detail**

#foreach ($key in $sorter.sort($group.groupNames()))

#### $key

#foreach($rel in $sorter.sort($group.get($key)))

|  |  |
| --- | --- |
| **Name** | #if($rel.hasName())  $rel.name#end |
| **Related Element** | #foreach ($re in $sorter.sort($rel.relatedElement))  #if($re != $enum)   * $re.name   #end  #end |

#end

#end

#end

#end

#end

# **Appendix A: Diagram**

#foreach ($diagram in $sorter.sort($Diagram))

#if ($diagram.diagramType == “Class Diagram”)

#removeLineBreak($diagram.name)

## **$displayedName**

$diagram.documentation

$diagram.image

1. $diagram.name

#end

#end