$project.name

Business Architecture Report

Author: $Author

Revision: $Revisions.lastChild.name

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

**Approval**

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

**Revision History**

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

#if($report.isNull($Diagram))

#set($Diagram = [])

#end

## Legend Support (JND 3/18)

#set($stereotypesInDiagram = $array.createHashSet())

#macro (**removeLineBreak $s**)

#set ($removeLineBreak = “”)

#foreach ($c in $s.toCharArray())#if($c.getType($c)==15)#set($removeLineBreak = $removeLineBreak.concat(“ “))#else#set($removeLineBreak = $removeLineBreak.concat($c.toString()))#end#end

#if ($removeLineBreak == “”)#set($removeLineBreak = $empty)#end

#end

#macro (**escapeCamelCase $s**)

#set ($escapeCamelCase = $s.replaceAll(“[A-Z]”, “ $0”).trim())

#set ($escapeCamelCase = $escapeCamelCase.substring(0, 1).toUpperCase().concat($escapeCamelCase.substring(1)))

#end

#macro (**resolveNotationName $element**)

#set ($resolveNotationName = “”)

#foreach ($stereotype in $element.appliedStereotype)

#if ($stereotype.owner.name == “BPMN2 Profile”)

#set ($name = $stereotype.name)

#escapeCamelCase($name)

#set ($resolveNotationName = $escapeCamelCase)

#end

#if ($resolveNotationName == “”)

#set ($resolveNotationName = $element.humanType)

#end

#end

#end

#macro (**resolveStereotypeName $element**)

#set ($resolveStereotypeName = “”)

#foreach ($stereotype in $element.appliedStereotype)

#if ($resolveStereotypeName == “”)

#set ($name = $stereotype.name)

#escapeCamelCase($name)

#set ($resolveStereotypeName = $escapeCamelCase)

#end

#end

#if ($resolveStereotypeName == “”)

#set ($resolveStereotypeName = $element.humanType)

#end

#end

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

#set ($void = $acceptedNotation.add(“Exclusive Gateway”))

#set ($void = $acceptedNotation.add(“Inclusive Gateway”))

#set ($void = $acceptedNotation.add(“Complex Gateway”))

#set ($void = $acceptedNotation.add(“Event Based Gateway”))

#set ($void = $acceptedNotation.add(“Parallel Gateway”))

#set ($void = $acceptedNotation.add(“Task”))

#set ($void = $acceptedNotation.add(“Service Task”))

#set ($void = $acceptedNotation.add(“Send Task”))

#set ($void = $acceptedNotation.add(“Script Task”))

#set ($void = $acceptedNotation.add(“Receive Task”))

#set ($void = $acceptedNotation.add(“User Task”))

#set ($void = $acceptedNotation.add(“Manual Task”))

#set ($void = $acceptedNotation.add(“Business Rule Task”))

#set ($void = $acceptedNotation.add(“SubProcess”))

#set ($void = $acceptedNotation.add(“Transaction SubProcess”))

#set ($void = $acceptedNotation.add(“AdHoc SubProcess”))

#set ($void = $acceptedNotation.add(“Call Activity”))

#set ($void = $acceptedNotation.add(“Data Object”))

#set ($void = $acceptedNotation.add(“Data Store”))

#set ($void = $acceptedNotation.add(“Data Input”))

#set ($void = $acceptedNotation.add(“Data Output”))

#set ($void = $acceptedNotation.add(“None Start Event”))

#set ($void = $acceptedNotation.add(“Message Start Event”))

#set ($void = $acceptedNotation.add(“Timer Start Event”))

#set ($void = $acceptedNotation.add(“Error Start Event”))

#set ($void = $acceptedNotation.add(“Escalation Start Event”))

#set ($void = $acceptedNotation.add(“Compensation Start Event”))

#set ($void = $acceptedNotation.add(“Conditional Start Event”))

#set ($void = $acceptedNotation.add(“Signal Start Event”))

#set ($void = $acceptedNotation.add(“Multiple Start Event”))

#set ($void = $acceptedNotation.add(“Parallel Multiple Start Event”))

#set ($void = $acceptedNotation.add(“None End Event”))

#set ($void = $acceptedNotation.add(“Message End Event”))

#set ($void = $acceptedNotation.add(“Error End Event”))

#set ($void = $acceptedNotation.add(“Escalation End Event”))

#set ($void = $acceptedNotation.add(“Cancel End Event”))

#set ($void = $acceptedNotation.add(“Compensation End Event”))

#set ($void = $acceptedNotation.add(“Signal End Event”))

#set ($void = $acceptedNotation.add(“Terminate End Event”))

#set ($void = $acceptedNotation.add(“Multiple End Event”))

#set ($void = $acceptedNotation.add(“Timer Boundary Event”))

#set ($void = $acceptedNotation.add(“Message Boundary Event”))

#set ($void = $acceptedNotation.add(“Error Boundary Event”))

#set ($void = $acceptedNotation.add(“Escalation Boundary Event”))

#set ($void = $acceptedNotation.add(“Cancel Boundary Event”))

#set ($void = $acceptedNotation.add(“Conditional Boundary Event”))

#set ($void = $acceptedNotation.add(“Compensation Boundary Event”))

#set ($void = $acceptedNotation.add(“Signal Boundary Event”))

#set ($void = $acceptedNotation.add(“Parallel Multiple Boundary Event”))

#set ($void = $acceptedNotation.add(“Multiple Boundary Event”))

#set ($void = $acceptedNotation.add(“Multiple Throw Intermediate Event”))

#set ($void = $acceptedNotation.add(“Link Throw Intermediate Event”))

#set ($void = $acceptedNotation.add(“Escalation Throw Intermediate Event”))

#set ($void = $acceptedNotation.add(“Message Throw Intermediate Event”))

#set ($void = $acceptedNotation.add(“Multiple Catch Intermediate Event”))

#set ($void = $acceptedNotation.add(“Compensation Throw Intermediate Event”))

#set ($void = $acceptedNotation.add(“Message Catch Intermediate Event”))

#set ($void = $acceptedNotation.add(“Signal Catch Intermediate Event”))

#set ($void = $acceptedNotation.add(“Conditional Catch Intermediate Event”))

#set ($void = $acceptedNotation.add(“Parallel Multiple Catch Interemediate Event”))

#set ($void = $acceptedNotation.add(“Link Catch Intermediate Event”))

#set ($void = $acceptedNotation.add(“None Catch Intermediate Event”))

#set ($void = $acceptedNotation.add(“Timer Catch Intermediate Event”))

#set ($void = $acceptedNotation.add(“Signal Throw Intermediate Event”))

#set ($void = $acceptedNotation.add(“Pool”))

#set ($void = $acceptedNotation.add(“Lane”))

#set ($void = $acceptedNotation.add(“Choreography Task”))

#set ($void = $acceptedNotation.add(“SubChoreography”))

#set ($void = $acceptedNotation.add(“Call Choreography”))

#set ($void = $acceptedNotation.add(“BPMN Collaboration”))

#set ($void = $acceptedNotation.add(“BPMN Process”))

#set ($void = $acceptedNotation.add(“Conversation”))

#set ($void = $acceptedNotation.add(“Choreography”))

#set ($void = $acceptedNotation.add(“Communication”))

#set ($void = $acceptedNotation.add(“SubConversation”))

#set ($void = $acceptedNotation.add(“Call Conversation”))

#set ($void = $acceptedNotation.add(“Initial Node”))

#set ($void = $acceptedNotation.add(“Activity Final Node”))

#set ($void = $acceptedNotation.add(“Flow Final Node”))

#set ($void = $acceptedNotation.add(“Decision Node”))

#set ($void = $acceptedNotation.add(“Fork Node”))

#set ($void = $acceptedNotation.add(“Accept Call Action”))

#set ($void = $acceptedNotation.add(“Accept Event Action”))

#set ($void = $acceptedNotation.add(“Add Structural Feature Value Action”))

#set ($void = $acceptedNotation.add(“Add Variable Value Action”))

#set ($void = $acceptedNotation.add(“Broadcast Signal Action”))

#set ($void = $acceptedNotation.add(“Call Behavior Action”))

#set ($void = $acceptedNotation.add(“Call Operation Action”))

#set ($void = $acceptedNotation.add(“Clear Association Action”))

#set ($void = $acceptedNotation.add(“Clear Structural Feature Action”))

#set ($void = $acceptedNotation.add(“Clear Variable Action”))

#set ($void = $acceptedNotation.add(“Conditional Node”))

#set ($void = $acceptedNotation.add(“Create Link Action”))

#set ($void = $acceptedNotation.add(“Create Link Object Action”))

#set ($void = $acceptedNotation.add(“Create Object Action”))

#set ($void = $acceptedNotation.add(“Destroy Link Action”))

#set ($void = $acceptedNotation.add(“Destroy Object Action”))

#set ($void = $acceptedNotation.add(“Expansion Region”))

#set ($void = $acceptedNotation.add(“Loop Node”))

#set ($void = $acceptedNotation.add(“Opaque Action”))

#set ($void = $acceptedNotation.add(“Raise Exception Action”))

#set ($void = $acceptedNotation.add(“Read Extent Action”))

#set ($void = $acceptedNotation.add(“Read Is Classified Object Action”))

#set ($void = $acceptedNotation.add(“Read Link Action”))

#set ($void = $acceptedNotation.add(“Read Link Object End Action”))

#set ($void = $acceptedNotation.add(“Read Link Object End Qualifier Action”))

#set ($void = $acceptedNotation.add(“Read Self Action”))

#set ($void = $acceptedNotation.add(“Read Structural Feature Action”))

#set ($void = $acceptedNotation.add(“Read Variable Action”))

#set ($void = $acceptedNotation.add(“Reclassify Object Action”))

#set ($void = $acceptedNotation.add(“Reduce Action”))

#set ($void = $acceptedNotation.add(“Remove Structural Feature Value Action”))

#set ($void = $acceptedNotation.add(“Remove Variable Value Action”))

#set ($void = $acceptedNotation.add(“Reply Action”))

#set ($void = $acceptedNotation.add(“Send Object Action”))

#set ($void = $acceptedNotation.add(“Send Signal Action”))

#set ($void = $acceptedNotation.add(“Sequence Node”))

#set ($void = $acceptedNotation.add(“Start Classifier Behavior Action”))

#set ($void = $acceptedNotation.add(“Structured Activity Node”))

#set ($void = $acceptedNotation.add(“Test Identity Action”))

#set ($void = $acceptedNotation.add(“Unmarshall Action”))

#set ($void = $acceptedNotation.add(“Value Specification Action”))

#set ($void = $acceptedNotation.add(“Data Store Node”))

#set ($void = $acceptedNotation.add(“Central Buffer Node”))

#set ($void = $acceptedNotation.add(“Activity Parameter Node”))

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| Microsoft Word users please click here and press F9 to create Table of Contents.  OpenOffice.org users please remove this text and select Insert Table of Content from menu. |

# Introduction

## **Purpose**

$Purpose

## **Scope**

$Scope

## **Overview**

$Overview

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

#foreach($elements in $Package)

#set($void = $packages.add($elements))

#end

#set($void = $packages.add($Package))

#foreach($elements in $report.filterElement($elements,[“Definitions”]))

#set($void = $packages.add($elements))

#end

#set($chk2=”F”)

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

#foreach($diagram in $package.getOwnedDiagram())

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

#set($chk2=”T”)

#end

#end

#end

#if($chk2==”T”)  
##begin Value Chains

#set($valueChains = $report.filterDiagram($Diagram,["Process Definition Diagram"]))

#set($valueChainsArray = $array.createArray($valueChains))

#set($valueChain = $list.get($valueChainsArray, 0))

#if($valueChain)

# Value Chains

#foreach($diagram in $sorter.humanSort($valueChains,”name”))#removeLineBreak($diagram.name)

#foreach($symbol in $report.getPresentationDiagramElements($diagram))

#set($elm = $symbol.getElement())

#foreach($stereotype in $report.getStereotypes($elm))

#if(!$report.isEmpty($stereotype.icon))

#set($void = $stereotypesInDiagram.add($stereotype))

#end

#end

#end

### **Diagram $removeLineBreak**

$diagram.image

1. $removeLineBreak

#end

#end

##END VALUE CHAINS

#set($BPMNprocesses = $report.filterElement($elements, [“BPMN Process”]))

#set($BPMNprocessesArray = $array.createArray($BPMNprocesses))

#set($BPMNprocess = $list.get($BPMNprocessesArray, 0))

#if($BPMNprocess)

# Processes

**Resources in Processes:**

| **Process Name** | **Id** | **Related Resources** |
| --- | --- | --- |
| #forrow($process in $sorter.humanSort($BPMNprocesses,”id”)) $process.name | $process.id | #foreach($element in $process.getOwnedElement())  #if($report.getAppliedStereotypeByName($element,”LaneSet”))  #if($report.getAppliedStereotypeByName($element.represents, “Resource”))   * $report.getIconFor($element.represents)$element.represents.name   #end  #foreach($lane in $element.getSubpartition())  #if($report.getAppliedStereotypeByName($lane.represents, “Resource”))   * $report.getIconFor($lane.represents)$lane.represents.name   #end  #if($lane.getSubpartition().size()>0)  #foreach($inner in $lane.getSubpartition())  #if($report.getAppliedStereotypeByName($inner.represents, “Resource”))   * $report.getIconFor($inner.represents)$inner.represents.name   #end  #end  #end  #end  #end  #end  #endrow |

#end

#set($BPMNprocesses = $report.filterElement($elements, [“BPMN Process”]))

#set($BPMNprocessesArray = $array.createArray($BPMNprocesses))

#set($BPMNprocess = $list.get($BPMNprocessesArray, 0))

#if($BPMNprocess)

#foreach($BPMNprocess in $sorter.sort($BPMNprocesses, “id:asc”))

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

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

#set($void = $array.addCollection($mainDiagram,$BPMNprocess.ownedDiagram))

#diagrams($BPMNprocess)

#macro (diagrams $element)

#foreach($elm in $element.getOwnedElement())

##LEGEND SUPPORT JND (3/18)

#foreach($stereotype in $report.getStereotypes($elm))

##Check for stereotype icon existing

#if(!$report.isEmpty($stereotype.icon))

#set($void = $stereotypesInDiagram.add($stereotype))

#end

#end

#if($elm.elementType==”subprocess”)

#if($elm.ownedDiagram)

#set($void = $array.addCollection($innerDiagram,$elm.ownedDiagram))

#diagrams($elm)

#end

#end

#end

#end

## **Process $BPMNprocess.id $bookmark.create($BPMNprocess.ID,$BPMNprocess.name)**

#if($BPMNprocess.documentation)

$BPMNprocess.documentation

#end

#set($void = $sorter.sort($mainDiagram,’name’))

#set($void = $sorter.sort($innerDiagram,’name’))

#set($void = $array.addCollection($mainDiagram,$innerDiagram))

#foreach($diagram in $mainDiagram)

#if ($diagram.diagramType == ”BPMN Process Diagram”)

#removeLineBreak($diagram.name)

### **Diagram $removeLineBreak**

$diagram.image

1. $removeLineBreak

#if ($diagram.documentation != ‘’)

$diagram.documentation

#end

$group.init()

#set ($elementList = ‘’)

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

#foreach ($obj in $report.getDiagramElements($diagram))

#resolveNotationName($obj)

#if ($acceptedNotation.contains($resolveNotationName))$group.put($resolveNotationName, $obj)

#set($void = $elementList.add($obj))#end

#end

#set ($sortedElementList = ‘’)

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

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

#set ($acceptedelements = $group.get($notationName))

#foreach ($element in $sorter.sort($acceptedelements))

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

#end

#end

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

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

#foreach($element in $sortedElementList)

#if($element.elementType==”task”||$element.elementType==”sendtask”||$element.elementType==”receivetask”||$element.elementType==”servicetask”||$element.elementType==”scripttask”||$element.elementType==”manualtask”||$element.elementType==”businessruletask”||$element.elementType==”usertask”||$element.elementType==”subprocess”||$element.elementType==”transactionsubprocess”||$element.elementType==”adhocsubprocess”||$element.elementType==”callactivity”)

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

#elseif($element.elementType==”dataobject”|| $element.elementType==”datastore”|| $element.elementType==”datainput”|| $element.elementType==”dataoutput”)

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

#end

#end

#if($activityList.size()>0)

**Process Activities:**

| **Name** | **Description** | **Properties** |
| --- | --- | --- |
| #forrow($element in $sorter.humanSort($activityList,"id"))$report.getIconFor($element) $element.id $element.name | $element.documentation | #if(!$report.isEmpty($element.assignedResources ))  Resources:  #foreach($rr in $element.assignedResources)   * $report.getIconFor($rr) $bookmark.open($rr.ID,$rr.name)   #end  #end  #if($element.elementType==”callactivity”&&$element.behavior)  Called Element:   * $report.getIconFor($element.behavior) $bookmark.open( $element.behavior.ID,$element.behavior.name)   #end  #endrow |

#end

#if($itemAwareList.size()>0)

**Data used in Process:**

| **Name** | **Description** |
| --- | --- |
| #forrow($element in $sorter.humanSort($itemAwareList,"id"))#if($element.type) $report.getIconFor($element) $element.name [$report.getIconFor($element.type) $element.type.name]  #else  $report.getIconFor($element) $element.name  #end | #if($element.documentation!=’’)  $report.getIconFor($element)$element.name - $element.documentation  #end  #if($element.type&&$element.type.documentation!='')  $report.getIconFor($element.type) $element.type.name - $element.type.documentation  #end  #endrow |

#end

#end

#end

#end

#end

#set($BPMNcollaborations = $report.filterElement($elements, [“BPMN Collaboration”]))

#set($BPMNcollaborationsArray = $array.createArray($BPMNcollaborations))

#set($BPMNcollaboration = $list.get($BPMNcollaborationsArray, 0))

#if($BPMNcollaboration)

# Collaborations

**Resources in Collaborations:**

| **Name** | **Related Resources** |
| --- | --- |
| #forrow($colla in $sorter.humanSort($BPMNcollaborations,”id”))$colla.name | #foreach($element in $colla.getOwnedElement())  #if($report.getAppliedStereotypeByName($element, “LaneSet”))  #if($report.getAppliedStereotypeByName($element.represents, “Resource”))   * $report.getIconFor($element.represents) $element.represents.name   #foreach($lane in $element.getSubpartition())  #if($report.getAppliedStereotypeByName($lane.represents, “Resource”))   * $report.getIconFor($lane.represents) $lane.represents.name   #if($lane.getSubpartition().size()>0)  #foreach($inner in $lane.getSubpartition())  #if($report.getAppliedStereotypeByName($inner.represents, “Resource”))   * $report.getIconFor($inner.represents) $inner.represents.name   #end  #end  #end  #end  #end  #end  #end  #end  #endrow |

#end

#set($BPMNcollaborations = $report.filterElement($elements, [“BPMN Collaboration”]))

#set($BPMNcollaborationsArray = $array.createArray($BPMNcollaborations))

#set($BPMNcollaboration = $list.get($BPMNcollaborationsArray, 0))

#if($BPMNcollaboration)

#foreach($BPMNcollaboration in $sorter.sort($BPMNcollaborations,”id:asc”))

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

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

#set($void = $array.addCollection($mainDiagram,$BPMNcollaboration.ownedDiagram))

#foreach($elm in $BPMNcollaboration.getOwnedElement())

#if($elm.elementType==”subprocess”)

#if($elm.ownedDiagram)

#set($void = $array.addCollection($innerDiagram,$elm.ownedDiagram))

#end

#end

#end

## **Collaboration $BPMNcollaboration.name**

#if($BPMNcollaboration.documentation)

$BPMNcollaboration.documentation

#end

#set($void = $sorter.sort($mainDiagram,’name’))

#set($void = $sorter.sort($innerDiagram,’name’))

#set($void = $array.addCollection($mainDiagram,$innerDiagram))

#foreach($diagram in $mainDiagram)

#if ($diagram.diagramType == “BPMN Collaboration Diagram” || $diagram.diagramType == “BPMN Process Diagram”)

#foreach($symbol in $report.getPresentationDiagramElements($diagram))

#set($element = $symbol.getElement())

#foreach($stereotype in $report.getStereotypes($element))

##Check for stereotype icon existing

#if(!$report.isEmpty($stereotype.icon))

#set($void = $stereotypesInDiagram.add($stereotype))

#end

#end

#end

#removeLineBreak($diagram.name)

### **Diagram $removeLineBreak**

$diagram.image

1. $removeLineBreak

#if ($diagram.documentation != ‘’)

$diagram.documentation

#end

$group.init()

#set ($elementList = ‘’)

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

#foreach ($obj in $report.getDiagramElements($diagram))

#resolveNotationName($obj)

#if ($acceptedNotation.contains($resolveNotationName))$group.put($resolveNotationName, $obj)

#set($void = $elementList.add($obj))#end

#end

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

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

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

#set ($acceptedelements = $group.get($notationName))

#foreach ($element in $sorter.sort($acceptedelements))

#if($element.elementType==”conversation”||$element.elementType==”subconversation”||$element.elementType==”callconversation”)

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

#elseif($element.elementType==”pool”)

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

#end

#end

#end

#if($poolList.size()>0)

**Message Flow description:**

| **Name** | **MessageFlow** |
| --- | --- |
| #forrow($element in $sorter.sort($poolList, 'name'))  $report.getIconFor($element) $element.name | #foreach($mf in $sorter.sort($element.outgoingMessageFlows,’name’))  #foreach($tg in $mf.supplier)  #if($tg.elementType==”pool”)  #if($tg.represents)  #set($target=$tg.represents)  #else  #set($target=$tg)  #end  #else  #set($target=$tg)  #end  #end  #if($mf.messageRef)  #set($msg=$mf.messageRef)  Sent Message **$msg.name** to $report.getIconFor($target) $target.name  #else  Message Flow **$mf.name** to $report.getIconFor($target) $target.name  #end  #end  #endrow |

#end

#if($convList.size()>0)

**Conversation Node description:**

| **Name** | **Description** | **MessageFlowRefs** |
| --- | --- | --- |
| #forrow($element in $sorter.sort($convList, 'name'))$report.getIconFor($element) $element.name | $element.documentation | #foreach($mf in $element.messageFlowRefs)  #foreach($src in $mf.client)  #set($source=$src)  #end  #foreach($tg in $mf.supplier)  #set($target=$tg)  #end   * Message Flow **$mf.name** [$report.getIconFor($source) $source.name - $report.getIconFor($target) $target.name]   #end  #endrow |

#end

#end

#end

#end

#end

#set($BPMNchoreographies = $report.filterElement($elements, [“Choreography”]))

#set($BPMNchoreographiesArray = $array.createArray($BPMNchoreographies))

#set($BPMNchoreography = $list.get($BPMNchoreographiesArray, 0))

#if($BPMNchoreography)

# Choreographies

**Participants in Choreographies:**

| **Name** | **Related Participants** |
| --- | --- |
| #forrow($choreo in $sorter.humanSort($BPMNchoreographies,”name”)) $report.getIconFor($choreo) $choreo.name | #set($participantList=$array.createHashSet())  #foreach($element in $choreo.getOwnedElement())  #if($element.elementType==”choreographytask”||$element.elementType=="subchoreography"||$element.elementType=="callchoreography")  #foreach($par in $element.participants)  #set($void=$participantList.add($par))  #end  #end  #end  #if($participantList.size()>0)  #foreach($par in $sorter.sort($participantList,”name”))   * $report.getIconFor($par) $par.name   #end  #end  #endrow |

#end

#set($BPMNchoreographies = $report.filterElement($elements, [“Choreography”]))

#set($BPMNchoreographiesArray = $array.createArray($BPMNchoreographies))

#set($BPMNchoreography = $list.get($BPMNchoreographiesArray, 0))

#if($BPMNchoreography)

#foreach($BPMNchoreography in $sorter.sort($BPMNchoreographies,”id:asc”))

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

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

#set($void = $array.addCollection($mainDiagram,$BPMNchoreography.ownedDiagram))

#foreach($elm in $BPMNchoreography.getOwnedElement())

#if($elm.elementType==”subchoreography”)

#if($elm.ownedDiagram)

#set($void = $array.addCollection($innerDiagram,$elm.ownedDiagram))

#end

#end

#end

## **Choreography $BPMNchoreography.name**

#if($BPMNchoreography.documentation != ‘’)

$BPMNchoreography.documentation

#end

#set($void = $sorter.sort($mainDiagram,’name’))

#set($void = $sorter.sort($innerDiagram,’name’))

#set($void = $array.addCollection($mainDiagram,$innerDiagram))

#foreach($diagram in $mainDiagram)

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

#removeLineBreak($diagram.name)

#foreach($symbol in $report.getPresentationDiagramElements($diagram))

#set($element = $symbol.getElement())

#foreach($stereotype in $report.getStereotypes($element))

##Check for stereotype icon existing

#if(!$report.isEmpty($stereotype.icon))

#set($void = $stereotypesInDiagram.add($stereotype))

#end

#end

#end

### **Diagram $removeLineBreak**

$diagram.image

1. $removeLineBreak

#if ($diagram.documentation != ‘’)

$diagram.documentation

#end

$group.init()

#set ($elementList = ‘’)

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

#foreach ($obj in $report.getDiagramElements($diagram))

#resolveNotationName($obj)

#if ($acceptedNotation.contains($resolveNotationName))$group.put($resolveNotationName, $obj)

#set($void = $elementList.add($obj))#end

#end

#set ($sortedElementList = ‘’)

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

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

#set ($acceptedelements = $group.get($notationName))

#foreach ($element in $sorter.sort($acceptedelements))

#if($element.elementType==”choreographytask”|| $element.elementType==”subchoreography”|| $element.elementType==”callchoreography”)

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

#end

#end

#end

#if($sortedElementList.size()>0)

**Choreography Activities:**

| **Name** | **Description** | **Related elements** |
| --- | --- | --- |
| #forrow($element in $sorter.humanSort($sortedElementList, “name”))  $report.getIconFor($element) $element.name | $element.documentation | #if($element.elementType==”choreographytask”|| $element.elementType==”subchoreography”|| $element.elementType==”callchoreography”)  #if($element.participants)  #set($init=$element.initiatingParticipant)  #end  #if($element.participants)  #foreach($par in $element.participants)  #if($init.name == $par.name)  $report.getIconFor($par) $par.name [Initiating]  #else  $report.getIconFor($par) $par.name  #end#end#end#end#endrow |

#end

#end

#end

#end

#end

# Business Data

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

#set($chk=”F”)

#foreach($diagram in $package.getOwnedDiagram())

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

#set($chk=”T”)

#end

#end

#if($chk==”T”)

#foreach($diagram in $sorter.sort($package.getOwnedDiagram(),’name’))

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

#removeLineBreak($diagram.name)

### **Diagram $removeLineBreak**

$diagram.image

1. $removeLineBreak

#if ($diagram.documentation != ‘’)

$diagram.documentation

#end

#set($checkBusinessElement=”F”)

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

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

#foreach($element in $report.getDiagramElements($diagram))

#if($element.elementType == ’class’)

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

#set($checkBusinessElement=”T”)

#elseif($element.elementType == ’enumeration’)

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

#set($checkBusinessElement=”T”)

#end

#end

#if($checkBusinessElement==”T”)

#if($classList.size() > 0)

**Business Data Class descriptions:**

| **Name** | **Description** | **Attributes** |
| --- | --- | --- |
| #forrow($element in $sorter.sort($classList,”name”))  $element.name | $element.documentation | #foreach ($att in $element.getOwnedAttribute())   * $att.name #if($att.documentation!=’’)- $att.documentation#end   #end#endrow |

#end

#if($enumerationList.size() > 0)

**Enumeration descriptions:**

| **Name** | **Description** | **Enumeration Literals** |
| --- | --- | --- |
| #forrow($element in $sorter.sort($enumerationList,”name”))  $element.name | $element.documentation | #foreach ($lit in $element.getOwnedLiteral())   * $lit.name #if($lit.documentation!=’’)- $lit.documentation#end   #end#endrow |

#end

#end

#end

#end

#end

#end

#end

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

#foreach($elements in $Package)

#set($void = $packages.add($elements))

#end

#set($void = $packages.add($Package))

#foreach($elements in $report.filterElement($elements,[“Definitions”]))

#set($void = $packages.add($elements))

#end

#set($chk2=”F”)

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

#foreach($diagram in $package.getOwnedDiagram())

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

#set($chk2=”T”)

#end

#end

#end

#set($checkPar=”F”)

#set($allpar = $report.filterElement($elements,[“Participant”]))

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

#foreach($participant in $allpar)

#if(!$report.getAppliedStereotypeByName($participant, “Organization”))

#set($void = $participants.add($participant))

#set($checkPar=”T”)

#end

#end

#set($allResourceRole= $report.filterElement($elements,[“Resource”]))

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

#foreach($rr in $allResourceRole)

#if(!($report.getAppliedStereotypeByName($rr, “Post”)||$report.getAppliedStereotypeByName($rr, “Person”)))

#set($void = $resourceRoles.add($rr))

#set($checkPar=”T”)

#end

#end

#foreach($elements in $report.filterElement($elements,[“Performer”,”Human Performer”,”Potential Owner”]))

#set($checkPar=”T”)

#end

#if($chk2==”T”||$checkPar==”T”)

# Organization Structure

**#if($checkPar==”T”)**

#set($Resources = $report.filterElement($elements, [“Resource”]))

#set($ResourcesArray = $array.createArray($Resources))

#if(!$report.isEmpty($ResourcesArray))

**Resource descriptions:**

| **Name** | **Description** |
| --- | --- |
| #forrow($resource in $sorter.humanSort($ResourcesArray ,’name’))  $report.getIconFor($resource) $bookmark.create($resource.ID,$resource.name) | $resource.documentation #endrow |

#end

#set($Organizations = $report.filterElement($elements, [“Organization Unit”]))

#set($OrganizationArray = $array.createArray($Organizations))

#if(!$report.isEmpty($OrganizationArray))

**Organization descriptions:**

| **Name** | **Description** |
| --- | --- |
| #forrow($org in $sorter.humanSort($OrganizationArray,’name’))  $report.getIconFor($org) $org.name | $org.documentation #endrow |

#end

#set($Roles = $report.filterElement($elements, [“Role”]))

#set($RoleArray = $array.createArray($Roles))

#if(!$report.isEmpty($RoleArray))

**Role descriptions:**

| **Name** | **Description** |
| --- | --- |
| #forrow($role in $sorter.humanSort($RoleArray,’name’))  $report.getIconFor($role) $role.name | $role.documentation #endrow |

#end

#set($Persons = $report.filterElement($elements, [“Person”]))

#set($PersonArray = $array.createArray($Persons))

#if(!$report.isEmpty($PersonArray))

**Person descriptions:**

| **Name** | **Description** |
| --- | --- |
| #forrow($person in $sorter.humanSort($PersonArray,’name’))  $report.getIconFor($person) $person.name | $person.documentation #endrow |

#end

#set($IS = $report.filterElement($elements, [“Information System”]))

#set($ISArray = $array.createArray($IS))

#if(!$report.isEmpty($ISArray))

**Information system descriptions:**

| **Name** | **Description** |
| --- | --- |
| #forrow($is in $sorter.humanSort($ISArray,’name’))  $report.getIconFor($is) $is.name | $is.documentation #endrow |

#end

#end

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

#set($chk=”F”)

#foreach($diagram in $package.getOwnedDiagram())

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

#set($chk=”T”)

#end

#end

#if($chk==”T”)

#foreach($diagram in $package.getOwnedDiagram())

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

#removeLineBreak($diagram.name)

#foreach($symbol in $report.getPresentationDiagramElements($diagram))

#set($element = $symbol.getElement())

#foreach($stereotype in $report.getStereotypes($element))

##Check for stereotype icon existing

#if(!$report.isEmpty($stereotype.icon))

#set($void = $stereotypesInDiagram.add($stereotype))

#end

#end

#end

### **Diagram $removeLineBreak**

$diagram.image

1. $removeLineBreak

#if ($diagram.documentation != ‘’)

$diagram.documentation

#end

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

#foreach($elm in $report.getDiagramElements($diagram))

#if($report.getAppliedStereotypeByName($elm,”Organization”)||$report.getAppliedStereotypeByName($elm,”Post”)||$report.getAppliedStereotypeByName($elm,”Person”) ||$report.getAppliedStereotypeByName($elm,”InformationSystem”))

#set($void = $node.add($elm))

#end

#end

#if(!$report.isEmpty($node))

**Organization Element descriptions:**

| **Name** | **Description** |
| --- | --- |
| #forrow($element in $sorter.humanSort($node,’appliedStereotype’))  $report.getIconFor($element) $element.name | $element.documentation#endrow |

#end

#end

#end

#end

#end

#end

# Legend

**Used Symbols:**

| **Symbol** | **Name** | **Description** |
| --- | --- | --- |
| #forrow($stereotype in $sorter.humanSort($stereotypesInDiagram, “name"))  ##Check for stereotype icon existing  #if(!$report.isEmpty($stereotype.icon))  ##Print icon and name of stereotype  $report.getIconFor($stereotype)  #end | $stereotype.name | $stereotype.documentation #endrow |