We have a tool to create BPMN 2.0 models, called “*BPMN designer*”. The tool is built upon Eclipse Ecore metamodels and utilizes Sirius features. The metamodel is designed to model BPMN flow objects (Events, activities, gateways), connecting objects (sequence flow, message flow, association), swim lanes (Pool, lane, dark pool), and artifacts (data object, group, annotation). These four categories enable creation of simple business process diagrams (BPDs). BPDs also permit making new types of flow object or artifact, to make the diagram more understandable.

This is the “BPMN designer” metamodel:

<?xml version="1.0" encoding="UTF-8"?>

<ecore:EPackage xmi:version="2.0" xmlns:xmi="http://www.omg.org/XMI" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xmlns:ecore="http://www.eclipse.org/emf/2002/Ecore" name="bpmn2" nsURI="http://www.omg.org/spec/BPMN/20100524/MODEL-XMI"

nsPrefix="bpmn">

<eAnnotations source="http://www.obeonetwork.com/bpmn2/addons" references="#//BaseElement/description #//Process/decomposedBy #//Process/decomposes"/>

<eClassifiers xsi:type="ecore:EClass" name="Interface" eSuperTypes="#//RootElement">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="operations" ordered="false"

lowerBound="1" upperBound="-1" eType="#//Operation" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="implementationRef" ordered="false"

eType="ecore:EClass http://www.eclipse.org/emf/2002/Ecore#//EObject"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="RootElement" abstract="true" eSuperTypes="#//BaseElement"/>

<eClassifiers xsi:type="ecore:EClass" name="BaseElement" abstract="true">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="id" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString" iD="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="extensionDefinitions" ordered="false"

upperBound="-1" eType="#//ExtensionDefinition"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="extensionValues" ordered="false"

upperBound="-1" eType="#//ExtensionAttributeValue" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="documentation" ordered="false"

upperBound="-1" eType="#//Documentation" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="description" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="ExtensionDefinition">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="extensionAttributeDefinitions"

ordered="false" upperBound="-1" eType="#//ExtensionAttributeDefinition" containment="true"

eOpposite="#//ExtensionAttributeDefinition/extensionDefinition"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="id" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString" iD="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="ExtensionAttributeDefinition">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="type" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="isReference" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EBoolean"

defaultValueLiteral="false"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="extensionDefinition" ordered="false"

lowerBound="1" eType="#//ExtensionDefinition" eOpposite="#//ExtensionDefinition/extensionAttributeDefinitions"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="id" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString" iD="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="ExtensionAttributeValue">

<eStructuralFeatures xsi:type="ecore:EReference" name="valueRef" ordered="false"

eType="ecore:EClass http://www.eclipse.org/emf/2002/Ecore#//EObject"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="value" ordered="false"

eType="ecore:EClass http://www.eclipse.org/emf/2002/Ecore#//EObject" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="extensionAttributeDefinition"

ordered="false" eType="#//ExtensionAttributeDefinition"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="id" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString" iD="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="Documentation" eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="text" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="textFormat" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"

defaultValueLiteral="text/plain"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="Operation" eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="inMessageRef" ordered="false"

lowerBound="1" eType="#//Message"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="outMessageRef" ordered="false"

eType="#//Message"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="errorRefs" ordered="false"

upperBound="-1" eType="#//Error"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="implementationRef" ordered="false"

eType="ecore:EClass http://www.eclipse.org/emf/2002/Ecore#//EObject"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="Message" eSuperTypes="#//RootElement">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="itemRef" ordered="false"

eType="#//ItemDefinition"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="ItemDefinition" eSuperTypes="#//RootElement">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="itemKind" ordered="false"

lowerBound="1" eType="#//ItemKind"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="structureRef" ordered="false"

lowerBound="1" eType="ecore:EClass http://www.eclipse.org/emf/2002/Ecore#//EObject"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="isCollection" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EBoolean"

defaultValueLiteral="false"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="import" ordered="false"

eType="#//Import"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EEnum" name="ItemKind">

<eLiterals name="Physical"/>

<eLiterals name="Information" value="1"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="Import">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="importType" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="location" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="namespace" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="id" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString" iD="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="Error" eSuperTypes="#//RootElement">

<eStructuralFeatures xsi:type="ecore:EReference" name="structureRef" ordered="false"

eType="#//ItemDefinition"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="errorCode" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="EndPoint" eSuperTypes="#//RootElement"/>

<eClassifiers xsi:type="ecore:EClass" name="Auditing" eSuperTypes="#//BaseElement"/>

<eClassifiers xsi:type="ecore:EClass" name="GlobalTask" eSuperTypes="#//CallableElement">

<eStructuralFeatures xsi:type="ecore:EReference" name="resources" ordered="false"

upperBound="-1" eType="#//ResourceRole" containment="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="CallableElement" abstract="true" eSuperTypes="#//RootElement">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="ioSpecification" ordered="false"

eType="#//InputOutputSpecification" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="supportedInterfaceRefs"

ordered="false" upperBound="-1" eType="#//Interface"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="ioBinding" ordered="false"

upperBound="-1" eType="#//InputOutputBinding" containment="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="InputOutputSpecification" eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EReference" name="inputSets" ordered="false"

upperBound="-1" eType="#//InputSet" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="outputSets" ordered="false"

upperBound="-1" eType="#//OutputSet" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="dataInputs" ordered="false"

upperBound="-1" eType="#//DataInput" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="dataOutputs" ordered="false"

upperBound="-1" eType="#//DataOutput" containment="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="InputSet" eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="dataInputRefs" ordered="false"

upperBound="-1" eType="#//DataInput" resolveProxies="false" eOpposite="#//DataInput/inputSetRefs"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="optionalInputRefs" ordered="false"

upperBound="-1" eType="#//DataInput" resolveProxies="false" eOpposite="#//DataInput/inputSetWithOptional"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="whileExecutingInputRefs"

ordered="false" upperBound="-1" eType="#//DataInput" resolveProxies="false"

eOpposite="#//DataInput/inputSetWithWhileExecuting"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="outputSetRefs" ordered="false"

upperBound="-1" eType="#//OutputSet" resolveProxies="false" eOpposite="#//OutputSet/inputSetRefs"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="DataInput" eSuperTypes="#//ItemAwareElement">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="isCollection" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EBoolean"

defaultValueLiteral="false"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="inputSetWithOptional" ordered="false"

upperBound="-1" eType="#//InputSet" transient="true" derived="true" eOpposite="#//InputSet/optionalInputRefs"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="inputSetWithWhileExecuting"

ordered="false" upperBound="-1" eType="#//InputSet" transient="true" derived="true"

eOpposite="#//InputSet/whileExecutingInputRefs"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="inputSetRefs" ordered="false"

upperBound="-1" eType="#//InputSet" transient="true" derived="true" eOpposite="#//InputSet/dataInputRefs"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="ItemAwareElement" eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EReference" name="itemSubjectRef" ordered="false"

eType="#//ItemDefinition"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="dataState" ordered="false"

eType="#//DataState" containment="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="DataState" eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="OutputSet" eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EReference" name="dataOutputRefs" ordered="false"

upperBound="-1" eType="#//DataOutput" resolveProxies="false" eOpposite="#//DataOutput/outputSetRefs"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="optionalOutputRefs" ordered="false"

upperBound="-1" eType="#//DataOutput" resolveProxies="false" eOpposite="#//DataOutput/outputSetWithOptional"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="whileExecutingOutputRefs"

ordered="false" upperBound="-1" eType="#//DataOutput" derived="true" resolveProxies="false"

eOpposite="#//DataOutput/outputSetWithWhileExecuting"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="inputSetRefs" ordered="false"

upperBound="-1" eType="#//InputSet" eOpposite="#//InputSet/outputSetRefs"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="DataOutput" eSuperTypes="#//ItemAwareElement">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="isCollection" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EBoolean"

defaultValueLiteral="false"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="outputSetWithOptional"

ordered="false" upperBound="-1" eType="#//OutputSet" transient="true" derived="true"

eOpposite="#//OutputSet/optionalOutputRefs"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="outputSetWithWhileExecuting"

ordered="false" upperBound="-1" eType="#//OutputSet" transient="true" derived="true"

eOpposite="#//OutputSet/whileExecutingOutputRefs"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="outputSetRefs" ordered="false"

upperBound="-1" eType="#//OutputSet" transient="true" derived="true" eOpposite="#//OutputSet/dataOutputRefs"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="InputOutputBinding">

<eStructuralFeatures xsi:type="ecore:EReference" name="inputDataRef" ordered="false"

lowerBound="1" eType="#//InputSet"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="outputDataRef" ordered="false"

lowerBound="1" eType="#//OutputSet"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="operationRef" ordered="false"

lowerBound="1" eType="#//Operation"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="id" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString" iD="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="ResourceRole" eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EReference" name="resourceRef" ordered="false"

eType="#//Resource"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="resourceParameterBindings"

ordered="false" upperBound="-1" eType="#//ResourceParameterBinding" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="resourceAssignmentExpression"

ordered="false" eType="#//ResourceAssignmentExpression" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="Resource" eSuperTypes="#//RootElement">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="resourceParameters" ordered="false"

upperBound="-1" eType="#//ResourceParameter" containment="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="ResourceParameter" eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="isRequired" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EBoolean"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="type" ordered="false" eType="#//ItemDefinition"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="ResourceParameterBinding">

<eStructuralFeatures xsi:type="ecore:EReference" name="expression" ordered="false"

lowerBound="1" eType="#//Expression" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="parameterRef" ordered="false"

lowerBound="1" eType="#//ResourceParameter"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="id" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString" iD="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="Expression" eSuperTypes="#//BaseElement"/>

<eClassifiers xsi:type="ecore:EClass" name="ResourceAssignmentExpression">

<eStructuralFeatures xsi:type="ecore:EReference" name="expression" ordered="false"

lowerBound="1" eType="#//Expression" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="id" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString" iD="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="Monitoring" eSuperTypes="#//BaseElement"/>

<eClassifiers xsi:type="ecore:EClass" name="Performer" eSuperTypes="#//ResourceRole"/>

<eClassifiers xsi:type="ecore:EClass" name="Process" eSuperTypes="#//CallableElement #//FlowElementsContainer">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="processType" ordered="false"

lowerBound="1" eType="#//ProcessType"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="isClosed" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EBoolean"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="auditing" ordered="false"

eType="#//Auditing" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="monitoring" ordered="false"

eType="#//Monitoring" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="properties" ordered="false"

upperBound="-1" eType="#//Property" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="supports" ordered="false"

upperBound="-1" eType="#//Process"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="definitionalCollaborationRef"

ordered="false" eType="#//Collaboration"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="isExecutable" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EBoolean"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="resources" ordered="false"

upperBound="-1" eType="#//ResourceRole" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="artifacts" ordered="false"

upperBound="-1" eType="#//Artifact" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="correlationSubscriptions"

ordered="false" upperBound="-1" eType="#//CorrelationSubscription" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="decomposedBy" upperBound="-1"

eType="#//Process" containment="true" eOpposite="#//Process/decomposes"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="decomposes" eType="#//Process"

eOpposite="#//Process/decomposedBy"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="FlowElementsContainer" abstract="true"

eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EReference" name="flowElements" ordered="false"

upperBound="-1" eType="#//FlowElement" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="laneSets" ordered="false"

upperBound="-1" eType="#//LaneSet" containment="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="FlowElement" abstract="true" eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="auditing" ordered="false"

eType="#//Auditing" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="monitoring" ordered="false"

eType="#//Monitoring" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="categoryValueRef" ordered="false"

upperBound="-1" eType="#//CategoryValue" transient="true" resolveProxies="false"

eOpposite="#//CategoryValue/categorizedFlowElements"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="CategoryValue" eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="value" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="categorizedFlowElements"

ordered="false" upperBound="-1" eType="#//FlowElement" changeable="false"

transient="true" derived="true" resolveProxies="false" eOpposite="#//FlowElement/categoryValueRef"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="LaneSet" eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EReference" name="lanes" ordered="false"

upperBound="-1" eType="#//Lane" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="Lane" eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="childLaneSet" ordered="false"

eType="#//LaneSet" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="partitionElementRef" ordered="false"

eType="#//BaseElement"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="flowNodeRefs" ordered="false"

upperBound="-1" eType="#//FlowNode" resolveProxies="false" eOpposite="#//FlowNode/lanes"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="partitionElement" ordered="false"

eType="#//BaseElement" containment="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="FlowNode" abstract="true" eSuperTypes="#//FlowElement">

<eStructuralFeatures xsi:type="ecore:EReference" name="outgoing" upperBound="-1"

eType="#//SequenceFlow" eOpposite="#//SequenceFlow/sourceRef"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="incoming" ordered="false"

upperBound="-1" eType="#//SequenceFlow" eOpposite="#//SequenceFlow/targetRef"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="lanes" ordered="false"

upperBound="-1" eType="#//Lane" transient="true" derived="true" eOpposite="#//Lane/flowNodeRefs"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="SequenceFlow" eSuperTypes="#//FlowElement">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="isImmediate" ordered="false"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EBoolean"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="conditionExpression" ordered="false"

eType="#//Expression" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="targetRef" ordered="false"

eType="#//FlowNode" eOpposite="#//FlowNode/incoming"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="sourceRef" ordered="false"

eType="#//FlowNode" eOpposite="#//FlowNode/outgoing"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EEnum" name="ProcessType">

<eLiterals name="None"/>

<eLiterals name="Public" value="1"/>

<eLiterals name="Private" value="2"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="Property" eSuperTypes="#//ItemAwareElement">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="Collaboration" eSuperTypes="#//RootElement">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="isClosed" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EBoolean"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="choreographyRef" ordered="false"

upperBound="-1" eType="#//Choreography"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="artifacts" ordered="false"

upperBound="-1" eType="#//Artifact" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="participantAssociations"

ordered="false" upperBound="-1" eType="#//ParticipantAssociation" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="messageFlowAssociations"

ordered="false" upperBound="-1" eType="#//MessageFlowAssociation" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="conversationAssociations"

ordered="false" eType="#//ConversationAssociation" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="participants" ordered="false"

upperBound="-1" eType="#//Participant" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="messageFlows" ordered="false"

upperBound="-1" eType="#//MessageFlow" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="correlationKeys" ordered="false"

upperBound="-1" eType="#//CorrelationKey" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="conversations" ordered="false"

upperBound="-1" eType="#//ConversationNode" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="conversationLinks" ordered="false"

upperBound="-1" eType="#//ConversationLink" containment="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="Choreography" eSuperTypes="#//Collaboration #//FlowElementsContainer"/>

<eClassifiers xsi:type="ecore:EClass" name="Artifact" abstract="true" eSuperTypes="#//BaseElement"/>

<eClassifiers xsi:type="ecore:EClass" name="ParticipantAssociation" eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EReference" name="innerParticipantRef" ordered="false"

lowerBound="1" eType="#//Participant"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="outerParticipantRef" ordered="false"

lowerBound="1" eType="#//Participant"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="Participant" eSuperTypes="#//BaseElement #//InteractionNode">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="interfaceRefs" ordered="false"

upperBound="-1" eType="#//Interface"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="participantMultiplicity"

ordered="false" eType="#//ParticipantMultiplicity" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="endPointRefs" ordered="false"

upperBound="-1" eType="#//EndPoint"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="processRef" ordered="false"

eType="#//Process"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="InteractionNode" abstract="true">

<eStructuralFeatures xsi:type="ecore:EReference" name="incomingConversationLinks"

ordered="false" upperBound="-1" eType="#//ConversationLink" changeable="false"

transient="true" derived="true" eOpposite="#//ConversationLink/targetRef"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="outgoingConversationLinks"

ordered="false" upperBound="-1" eType="#//ConversationLink" changeable="false"

transient="true" derived="true" eOpposite="#//ConversationLink/sourceRef"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="ConversationLink" eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EReference" name="sourceRef" ordered="false"

lowerBound="1" eType="#//InteractionNode" transient="true" eOpposite="#//InteractionNode/outgoingConversationLinks"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="targetRef" ordered="false"

lowerBound="1" eType="#//InteractionNode" transient="true" eOpposite="#//InteractionNode/incomingConversationLinks"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="ParticipantMultiplicity">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="minimum" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EInt"

defaultValueLiteral="0"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="maximum" ordered="false"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EInt" defaultValueLiteral="1"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="id" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString" iD="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="MessageFlowAssociation" eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EReference" name="innerMessageFlowRef" ordered="false"

lowerBound="1" eType="#//MessageFlow"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="outerMessageFlowRef" ordered="false"

lowerBound="1" eType="#//MessageFlow"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="MessageFlow" eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="sourceRef" ordered="false"

eType="#//InteractionNode"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="targetRef" ordered="false"

eType="#//InteractionNode"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="messageRef" ordered="false"

eType="#//Message"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="ConversationAssociation" eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EReference" name="innerConversationNodeRef"

ordered="false" lowerBound="1" eType="#//ConversationNode"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="outerConversationNodeRef"

ordered="false" lowerBound="1" eType="#//ConversationNode"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="ConversationNode" abstract="true" eSuperTypes="#//BaseElement #//InteractionNode">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="participantRefs" ordered="false"

lowerBound="2" upperBound="-1" eType="#//Participant"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="messageFlowRefs" ordered="false"

upperBound="-1" eType="#//MessageFlow"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="correlationKeys" ordered="false"

upperBound="-1" eType="#//CorrelationKey" containment="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="CorrelationKey" eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EReference" name="correlationPropertyRef"

ordered="false" upperBound="-1" eType="#//CorrelationProperty"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="CorrelationProperty" eSuperTypes="#//RootElement">

<eStructuralFeatures xsi:type="ecore:EReference" name="correlationPropertyRetrievalExpression"

ordered="false" lowerBound="1" upperBound="-1" eType="#//CorrelationPropertyRetrievalExpression"

containment="true"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="type" ordered="false" eType="#//ItemDefinition"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="CorrelationPropertyRetrievalExpression"

eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EReference" name="messagePath" ordered="false"

lowerBound="1" eType="#//FormalExpression" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="messageRef" ordered="false"

lowerBound="1" eType="#//Message"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="FormalExpression" eSuperTypes="#//Expression">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="language" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="body" ordered="false" lowerBound="1"

eType="ecore:EClass http://www.eclipse.org/emf/2002/Ecore#//EObject"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="evaluatesToTypeRef" ordered="false"

lowerBound="1" eType="#//ItemDefinition"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="CorrelationSubscription" eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EReference" name="correlationKeyRef" ordered="false"

lowerBound="1" eType="#//CorrelationKey"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="correlationPropertyBinding"

ordered="false" upperBound="-1" eType="#//CorrelationPropertyBinding" containment="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="CorrelationPropertyBinding" eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EReference" name="dataPath" ordered="false"

lowerBound="1" eType="#//FormalExpression" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="correlationPropertyRef"

ordered="false" lowerBound="1" eType="#//CorrelationProperty"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="GlobalManualTask" eSuperTypes="#//GlobalTask"/>

<eClassifiers xsi:type="ecore:EClass" name="ManualTask" eSuperTypes="#//Task"/>

<eClassifiers xsi:type="ecore:EClass" name="Task" eSuperTypes="#//Activity"/>

<eClassifiers xsi:type="ecore:EClass" name="Activity" abstract="true" eSuperTypes="#//FlowNode #//InteractionNode">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="isForCompensation" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EBoolean"

defaultValueLiteral="false"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="loopCharacteristics" ordered="false"

eType="#//LoopCharacteristics" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="resources" ordered="false"

upperBound="-1" eType="#//ResourceRole" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="default" ordered="false"

eType="#//SequenceFlow"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="properties" ordered="false"

upperBound="-1" eType="#//Property" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="ioSpecification" ordered="false"

eType="#//InputOutputSpecification" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="boundaryEventRefs" ordered="false"

upperBound="-1" eType="#//BoundaryEvent" eOpposite="#//BoundaryEvent/attachedToRef"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="dataInputAssociations"

ordered="false" upperBound="-1" eType="#//DataInputAssociation" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="dataOutputAssociations"

ordered="false" upperBound="-1" eType="#//DataOutputAssociation" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="startQuantity" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EInt"

defaultValueLiteral="1"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="completionQuantity" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EInt"

defaultValueLiteral="1"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="LoopCharacteristics" abstract="true"

eSuperTypes="#//BaseElement"/>

<eClassifiers xsi:type="ecore:EClass" name="BoundaryEvent" eSuperTypes="#//CatchEvent">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="cancelActivity" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EBoolean"

defaultValueLiteral="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="attachedToRef" ordered="false"

lowerBound="1" eType="#//Activity" eOpposite="#//Activity/boundaryEventRefs"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="CatchEvent" abstract="true" eSuperTypes="#//Event">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="parallelMultiple" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EBoolean"

defaultValueLiteral="false"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="outputSet" ordered="false"

eType="#//OutputSet" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="eventDefinitionRefs" ordered="false"

upperBound="-1" eType="#//EventDefinition"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="dataOutputAssociation"

ordered="false" upperBound="-1" eType="#//DataOutputAssociation" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="dataOutputs" ordered="false"

upperBound="-1" eType="#//DataOutput" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="eventDefinitions" ordered="false"

upperBound="-1" eType="#//EventDefinition" containment="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="Event" abstract="true" eSuperTypes="#//FlowNode #//InteractionNode">

<eStructuralFeatures xsi:type="ecore:EReference" name="properties" ordered="false"

upperBound="-1" eType="#//Property" containment="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="EventDefinition" abstract="true" eSuperTypes="#//RootElement"/>

<eClassifiers xsi:type="ecore:EClass" name="DataOutputAssociation" eSuperTypes="#//DataAssociation"/>

<eClassifiers xsi:type="ecore:EClass" name="DataAssociation" eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EReference" name="transformation" ordered="false"

eType="#//FormalExpression" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="assignment" ordered="false"

upperBound="-1" eType="#//Assignment" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="targetRef" ordered="false"

lowerBound="1" eType="#//ItemAwareElement"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="sourceRef" ordered="false"

upperBound="-1" eType="#//ItemAwareElement"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="Assignment" eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EReference" name="from" ordered="false" lowerBound="1"

eType="#//Expression" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="to" ordered="false" lowerBound="1"

eType="#//Expression" containment="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="DataInputAssociation" eSuperTypes="#//DataAssociation"/>

<eClassifiers xsi:type="ecore:EClass" name="UserTask" eSuperTypes="#//Task">

<eStructuralFeatures xsi:type="ecore:EReference" name="renderings" ordered="false"

upperBound="-1" eType="#//Rendering" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="implementation" ordered="false"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="Rendering" eSuperTypes="#//BaseElement"/>

<eClassifiers xsi:type="ecore:EClass" name="HumanPerformer" eSuperTypes="#//Performer"/>

<eClassifiers xsi:type="ecore:EClass" name="PotentialOwner" eSuperTypes="#//HumanPerformer"/>

<eClassifiers xsi:type="ecore:EClass" name="GlobalUserTask" eSuperTypes="#//GlobalTask">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="implementation" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="renderings" ordered="false"

upperBound="-1" eType="#//Rendering" containment="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="Gateway" abstract="true" eSuperTypes="#//FlowNode">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="gatewayDirection" ordered="false"

lowerBound="1" eType="#//GatewayDirection" defaultValueLiteral="Unspecified"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EEnum" name="GatewayDirection">

<eLiterals name="Unspecified"/>

<eLiterals name="Converging" value="1"/>

<eLiterals name="Diverging" value="2"/>

<eLiterals name="Mixed" value="3"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="EventBasedGateway" eSuperTypes="#//Gateway">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="instantiate" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EBoolean"

defaultValueLiteral="false"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="eventGatewayType" ordered="false"

lowerBound="1" eType="#//EventBasedGatewayType"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EEnum" name="EventBasedGatewayType">

<eLiterals name="Parallel"/>

<eLiterals name="Exclusive" value="1"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="ComplexGateway" eSuperTypes="#//Gateway">

<eStructuralFeatures xsi:type="ecore:EReference" name="activationCondition" ordered="false"

eType="#//Expression" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="default" ordered="false"

eType="#//SequenceFlow"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="ExclusiveGateway" eSuperTypes="#//Gateway">

<eStructuralFeatures xsi:type="ecore:EReference" name="default" ordered="false"

eType="#//SequenceFlow"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="InclusiveGateway" eSuperTypes="#//Gateway">

<eStructuralFeatures xsi:type="ecore:EReference" name="default" ordered="false"

eType="#//SequenceFlow"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="ParallelGateway" eSuperTypes="#//Gateway"/>

<eClassifiers xsi:type="ecore:EClass" name="Relationship" eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="type" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="direction" ordered="false"

lowerBound="1" eType="#//RelationshipDirection"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="sources" ordered="false"

lowerBound="1" upperBound="-1" eType="ecore:EClass http://www.eclipse.org/emf/2002/Ecore#//EObject"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="targets" ordered="false"

lowerBound="1" upperBound="-1" eType="ecore:EClass http://www.eclipse.org/emf/2002/Ecore#//EObject"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EEnum" name="RelationshipDirection">

<eLiterals name="None"/>

<eLiterals name="Forward" value="1"/>

<eLiterals name="Backward" value="2"/>

<eLiterals name="Both" value="3"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="Extension">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="mustUnderstand" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EBoolean"

defaultValueLiteral="false"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="definition" ordered="false"

lowerBound="1" eType="#//ExtensionDefinition" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="id" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString" iD="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="IntermediateCatchEvent" eSuperTypes="#//CatchEvent"/>

<eClassifiers xsi:type="ecore:EClass" name="IntermediateThrowEvent" eSuperTypes="#//ThrowEvent"/>

<eClassifiers xsi:type="ecore:EClass" name="ThrowEvent" abstract="true" eSuperTypes="#//Event">

<eStructuralFeatures xsi:type="ecore:EReference" name="inputSet" ordered="false"

eType="#//InputSet" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="eventDefinitionRefs" ordered="false"

upperBound="-1" eType="#//EventDefinition"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="dataInputAssociation" ordered="false"

upperBound="-1" eType="#//DataInputAssociation" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="dataInputs" ordered="false"

upperBound="-1" eType="#//DataInput" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="eventDefinitions" ordered="false"

upperBound="-1" eType="#//EventDefinition" containment="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="EndEvent" eSuperTypes="#//ThrowEvent"/>

<eClassifiers xsi:type="ecore:EClass" name="StartEvent" eSuperTypes="#//CatchEvent">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="isInterrupting" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EBoolean"

defaultValueLiteral="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="CancelEventDefinition" eSuperTypes="#//EventDefinition"/>

<eClassifiers xsi:type="ecore:EClass" name="ErrorEventDefinition" eSuperTypes="#//EventDefinition">

<eStructuralFeatures xsi:type="ecore:EReference" name="errorRef" ordered="false"

eType="#//Error"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="TerminateEventDefinition" eSuperTypes="#//EventDefinition"/>

<eClassifiers xsi:type="ecore:EClass" name="EscalationEventDefinition" eSuperTypes="#//EventDefinition">

<eStructuralFeatures xsi:type="ecore:EReference" name="escalationRef" ordered="false"

eType="#//Escalation"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="Escalation">

<eStructuralFeatures xsi:type="ecore:EReference" name="structureRef" ordered="false"

eType="#//ItemDefinition"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="escalationCode" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="id" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString" iD="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="CompensateEventDefinition" eSuperTypes="#//EventDefinition">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="waitForCompletion" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EBoolean"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="activityRef" ordered="false"

eType="#//Activity"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="TimerEventDefinition" eSuperTypes="#//EventDefinition">

<eStructuralFeatures xsi:type="ecore:EReference" name="timeDate" ordered="false"

eType="#//Expression" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="timeCycle" ordered="false"

eType="#//Expression" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="timeDuration" ordered="false"

eType="#//Expression" containment="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="LinkEventDefinition" eSuperTypes="#//EventDefinition">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="target" ordered="false"

eType="#//LinkEventDefinition" eOpposite="#//LinkEventDefinition/source"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="source" ordered="false"

upperBound="-1" eType="#//LinkEventDefinition" eOpposite="#//LinkEventDefinition/target"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="MessageEventDefinition" eSuperTypes="#//EventDefinition">

<eStructuralFeatures xsi:type="ecore:EReference" name="messageRef" ordered="false"

eType="#//Message"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="operationRef" ordered="false"

eType="#//Operation"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="ConditionalEventDefinition" eSuperTypes="#//EventDefinition">

<eStructuralFeatures xsi:type="ecore:EReference" name="condition" ordered="false"

lowerBound="1" eType="#//Expression" containment="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="SignalEventDefinition" eSuperTypes="#//EventDefinition">

<eStructuralFeatures xsi:type="ecore:EReference" name="signalRef" ordered="false"

eType="#//Signal"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="Signal" eSuperTypes="#//RootElement">

<eStructuralFeatures xsi:type="ecore:EReference" name="structureRef" ordered="false"

eType="#//ItemDefinition"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="ImplicitThrowEvent" eSuperTypes="#//ThrowEvent"/>

<eClassifiers xsi:type="ecore:EClass" name="DataObject" eSuperTypes="#//FlowElement #//ItemAwareElement">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="isCollection" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EBoolean"

defaultValueLiteral="false"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="DataStore" eSuperTypes="#//ItemAwareElement #//RootElement">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="capacity" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EInt"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="isUnlimited" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EBoolean"

defaultValueLiteral="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="DataStoreReference" eSuperTypes="#//FlowElement #//ItemAwareElement">

<eStructuralFeatures xsi:type="ecore:EReference" name="dataStoreRef" ordered="false"

eType="#//DataStore"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="DataObjectReference" eSuperTypes="#//FlowElement #//ItemAwareElement">

<eStructuralFeatures xsi:type="ecore:EReference" name="dataObjectRef" ordered="false"

lowerBound="1" eType="#//DataObject"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="CallConversation" eSuperTypes="#//ConversationNode">

<eStructuralFeatures xsi:type="ecore:EReference" name="calledCollaborationRef"

ordered="false" eType="#//Collaboration"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="participantAssociations"

ordered="false" upperBound="-1" eType="#//ParticipantAssociation" containment="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="Conversation" eSuperTypes="#//ConversationNode"/>

<eClassifiers xsi:type="ecore:EClass" name="SubConversation" eSuperTypes="#//ConversationNode">

<eStructuralFeatures xsi:type="ecore:EReference" name="conversationNodes" ordered="false"

upperBound="-1" eType="#//ConversationNode" containment="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="GlobalConversation" eSuperTypes="#//Collaboration"/>

<eClassifiers xsi:type="ecore:EClass" name="PartnerEntity" eSuperTypes="#//RootElement">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="participantRef" ordered="false"

upperBound="-1" eType="#//Participant"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="PartnerRole" eSuperTypes="#//RootElement">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="participantRef" ordered="false"

upperBound="-1" eType="#//Participant"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="ChoreographyActivity" abstract="true"

eSuperTypes="#//FlowNode">

<eStructuralFeatures xsi:type="ecore:EReference" name="participantRefs" ordered="false"

upperBound="-1" eType="#//Participant"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="initiatingParticipantRef"

ordered="false" eType="#//Participant"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="correlationKeys" ordered="false"

upperBound="-1" eType="#//CorrelationKey" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="loopType" ordered="false"

lowerBound="1" eType="#//ChoreographyLoopType" defaultValueLiteral="None"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EEnum" name="ChoreographyLoopType">

<eLiterals name="None"/>

<eLiterals name="Standard" value="1"/>

<eLiterals name="MultiInstanceSequential" value="2"/>

<eLiterals name="MultiInstanceParallel" value="3"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="CallChoreography" eSuperTypes="#//ChoreographyActivity">

<eStructuralFeatures xsi:type="ecore:EReference" name="calledChoreographyRef"

ordered="false" eType="#//Choreography"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="participantAssociations"

ordered="false" upperBound="-1" eType="#//ParticipantAssociation" containment="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="SubChoreography" eSuperTypes="#//ChoreographyActivity #//FlowElementsContainer">

<eStructuralFeatures xsi:type="ecore:EReference" name="artifacts" ordered="false"

upperBound="-1" eType="#//Artifact" containment="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="ChoreographyTask" eSuperTypes="#//ChoreographyActivity">

<eStructuralFeatures xsi:type="ecore:EReference" name="messageFlowRef" ordered="false"

upperBound="2" eType="#//MessageFlow"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="GlobalChoreographyTask" eSuperTypes="#//Choreography">

<eStructuralFeatures xsi:type="ecore:EReference" name="initiatingParticipantRef"

ordered="false" lowerBound="1" eType="#//Participant"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="TextAnnotation" eSuperTypes="#//Artifact">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="text" ordered="false" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="textFormat" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"

defaultValueLiteral="text/plain"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="Group" eSuperTypes="#//Artifact">

<eStructuralFeatures xsi:type="ecore:EReference" name="categoryValueRef" ordered="false"

eType="#//CategoryValue"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="Association" eSuperTypes="#//Artifact">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="associationDirection" ordered="false"

lowerBound="1" eType="#//AssociationDirection"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="sourceRef" ordered="false"

eType="#//BaseElement"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="targetRef" ordered="false"

eType="#//BaseElement"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EEnum" name="AssociationDirection">

<eLiterals name="None"/>

<eLiterals name="One" value="1"/>

<eLiterals name="Both" value="2"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="Category" eSuperTypes="#//RootElement">

<eStructuralFeatures xsi:type="ecore:EReference" name="categoryValue" ordered="false"

upperBound="-1" eType="#//CategoryValue" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" lowerBound="1"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="ServiceTask" eSuperTypes="#//Task">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="implementation" ordered="false"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="operationRef" ordered="false"

eType="#//Operation"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="SubProcess" eSuperTypes="#//Activity #//FlowElementsContainer">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="triggeredByEvent" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EBoolean"

defaultValueLiteral="false"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="artifacts" ordered="false"

upperBound="-1" eType="#//Artifact" containment="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EEnum" name="MultiInstanceBehavior">

<eLiterals name="None"/>

<eLiterals name="One" value="1"/>

<eLiterals name="All" value="2"/>

<eLiterals name="Complex" value="3"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="MultiInstanceLoopCharacteristics" eSuperTypes="#//LoopCharacteristics">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="isSequential" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EBoolean"

defaultValueLiteral="false"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="behavior" ordered="false"

lowerBound="1" eType="#//MultiInstanceBehavior" defaultValueLiteral="All"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="loopCardinality" ordered="false"

eType="#//Expression" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="loopDataInputRef" ordered="false"

eType="#//ItemAwareElement"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="loopDataOutputRef" ordered="false"

eType="#//ItemAwareElement"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="inputDataItem" ordered="false"

eType="#//DataInput" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="outputDataItem" ordered="false"

eType="#//DataOutput" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="completionCondition" ordered="false"

eType="#//Expression" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="complexBehaviorDefinition"

ordered="false" upperBound="-1" eType="#//ComplexBehaviorDefinition" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="oneBehaviorEventRef" ordered="false"

eType="#//EventDefinition"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="noneBehaviorEventRef" ordered="false"

eType="#//EventDefinition"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="ComplexBehaviorDefinition" eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EReference" name="condition" ordered="false"

lowerBound="1" eType="#//FormalExpression" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="event" ordered="false"

eType="#//ImplicitThrowEvent" containment="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="StandardLoopCharacteristics" eSuperTypes="#//LoopCharacteristics">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="testBefore" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EBoolean"

defaultValueLiteral="false"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="loopCondition" ordered="false"

eType="#//Expression" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="loopMaximum" ordered="false"

eType="#//Expression" containment="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="CallActivity" eSuperTypes="#//Activity">

<eStructuralFeatures xsi:type="ecore:EReference" name="calledElementRef" ordered="false"

eType="#//CallableElement"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="SendTask" eSuperTypes="#//Task">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="implementation" ordered="false"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="operationRef" ordered="false"

eType="#//Operation"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="messageRef" ordered="false"

eType="#//Message"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="ReceiveTask" eSuperTypes="#//Task">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="implementation" ordered="false"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="instantiate" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EBoolean"

defaultValueLiteral="false"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="operationRef" ordered="false"

eType="#//Operation"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="messageRef" ordered="false"

eType="#//Message"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="ScriptTask" eSuperTypes="#//Task">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="scriptFormat" ordered="false"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="script" ordered="false"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="BusinessRuleTask" eSuperTypes="#//Task">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="implementation" ordered="false"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="AdHocSubProcess" eSuperTypes="#//SubProcess">

<eStructuralFeatures xsi:type="ecore:EReference" name="completionCondition" ordered="false"

lowerBound="1" eType="#//Expression" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="ordering" ordered="false"

lowerBound="1" eType="#//AdHocOrdering"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="cancelRemainingInstances"

ordered="false" lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EBoolean"

defaultValueLiteral="true"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EEnum" name="AdHocOrdering">

<eLiterals name="Parallel"/>

<eLiterals name="Sequential" value="1"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="Transaction" eSuperTypes="#//SubProcess">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="protocol" ordered="false"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="method" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="GlobalScriptTask" eSuperTypes="#//GlobalTask">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="scriptLanguage" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="script" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="GlobalBusinessRuleTask" eSuperTypes="#//GlobalTask">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="implementation" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

</eClassifiers>

<eClassifiers xsi:type="ecore:EClass" name="Definitions" eSuperTypes="#//BaseElement">

<eStructuralFeatures xsi:type="ecore:EAttribute" name="name" ordered="false" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="targetNamespace" ordered="false"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="expressionLanguage" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"

defaultValueLiteral="http://www.w3.org/1999/XPath"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="typeLanguage" ordered="false"

lowerBound="1" eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"

defaultValueLiteral="http://www.w3.org/2001/XMLSchema"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="imports" ordered="false"

upperBound="-1" eType="#//Import" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="extensions" ordered="false"

upperBound="-1" eType="#//Extension" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="relationships" ordered="false"

upperBound="-1" eType="#//Relationship" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="rootElements" ordered="false"

upperBound="-1" eType="#//RootElement" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EReference" name="diagrams" ordered="false"

upperBound="-1" eType="ecore:EClass BPMNDI.ecore#//BPMNDiagram" containment="true"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="exporter" ordered="false"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

<eStructuralFeatures xsi:type="ecore:EAttribute" name="exporterVersion" ordered="false"

eType="ecore:EDataType http://www.eclipse.org/emf/2002/Ecore#//EString"/>

</eClassifiers>

</ecore:EPackage>

This is an example model based on “BPMN-Designer” metamodel:

**<?xml version="1.0" encoding="ASCII"?>**

**<bpmn:Definitions xmi:version="2.0" xmlns:xmi="http://www.omg.org/XMI" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:bpmn="http://www.omg.org/spec/BPMN/20100524/MODEL-XMI" id="\_B-b3QY76Ee-v648egk3nxQ">**

**<rootElements xsi:type="bpmn:Process" id="\_B-b3QI76Ee-v648egk3nxQ">**

**<flowElements xsi:type="bpmn:Task" id="\_grPi0I76Ee-v648egk3nxQ" name="Task 1" outgoing="\_m1xLYI76Ee-v648egk3nxQ \_-OC5YI76Ee-v648egk3nxQ" incoming="\_jy7FcI76Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:StartEvent" id="\_hrthUI76Ee-v648egk3nxQ" name="Start Event 1" outgoing="\_jy7FcI76Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:SequenceFlow" id="\_jy7FcI76Ee-v648egk3nxQ" targetRef="\_grPi0I76Ee-v648egk3nxQ" sourceRef="\_hrthUI76Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:Task" id="\_koO80I76Ee-v648egk3nxQ" name="Task 3" outgoing="\_3BYeYI76Ee-v648egk3nxQ \_DOVjcI77Ee-v648egk3nxQ" incoming="\_m1xLYI76Ee-v648egk3nxQ \_qA31cI76Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:SequenceFlow" id="\_m1xLYI76Ee-v648egk3nxQ" targetRef="\_koO80I76Ee-v648egk3nxQ" sourceRef="\_grPi0I76Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:StartEvent" id="\_opa6UI76Ee-v648egk3nxQ" name="Start Event 2" outgoing="\_qA31cI76Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:SequenceFlow" id="\_qA31cI76Ee-v648egk3nxQ" targetRef="\_koO80I76Ee-v648egk3nxQ" sourceRef="\_opa6UI76Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:SubProcess" id="\_sRIn4I76Ee-v648egk3nxQ" name="New Sub Process" outgoing="\_9RBQcI76Ee-v648egk3nxQ" incoming="\_3BYeYI76Ee-v648egk3nxQ">**

**<flowElements xsi:type="bpmn:StartEvent" id="\_vQswUI76Ee-v648egk3nxQ" name="Start Event 3" outgoing="\_1R6r4I76Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:Task" id="\_xutD0I76Ee-v648egk3nxQ" name="Task 4" outgoing="\_2KFC8I76Ee-v648egk3nxQ" incoming="\_1R6r4I76Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:EndEvent" id="\_zhX7UI76Ee-v648egk3nxQ" name="End Event 3" incoming="\_2KFC8I76Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:SequenceFlow" id="\_1R6r4I76Ee-v648egk3nxQ" targetRef="\_xutD0I76Ee-v648egk3nxQ" sourceRef="\_vQswUI76Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:SequenceFlow" id="\_2KFC8I76Ee-v648egk3nxQ" targetRef="\_zhX7UI76Ee-v648egk3nxQ" sourceRef="\_xutD0I76Ee-v648egk3nxQ"/>**

**</flowElements>**

**<flowElements xsi:type="bpmn:SequenceFlow" id="\_3BYeYI76Ee-v648egk3nxQ" targetRef="\_sRIn4I76Ee-v648egk3nxQ" sourceRef="\_koO80I76Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:Task" id="\_31QLUI76Ee-v648egk3nxQ" name="Task 5" outgoing="\_8U4\_YI76Ee-v648egk3nxQ \_Lfp5YI77Ee-v648egk3nxQ" incoming="\_9RBQcI76Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:Task" id="\_5663UI76Ee-v648egk3nxQ" name="Task 2" outgoing="\_\_6UN8I76Ee-v648egk3nxQ" incoming="\_8U4\_YI76Ee-v648egk3nxQ \_-OC5YI76Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:SequenceFlow" id="\_8U4\_YI76Ee-v648egk3nxQ" targetRef="\_5663UI76Ee-v648egk3nxQ" sourceRef="\_31QLUI76Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:SequenceFlow" id="\_9RBQcI76Ee-v648egk3nxQ" targetRef="\_31QLUI76Ee-v648egk3nxQ" sourceRef="\_sRIn4I76Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:SequenceFlow" id="\_-OC5YI76Ee-v648egk3nxQ" targetRef="\_5663UI76Ee-v648egk3nxQ" sourceRef="\_grPi0I76Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:EndEvent" id="\_-x5NUI76Ee-v648egk3nxQ" name="End Event 1" incoming="\_\_6UN8I76Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:SequenceFlow" id="\_\_6UN8I76Ee-v648egk3nxQ" targetRef="\_-x5NUI76Ee-v648egk3nxQ" sourceRef="\_5663UI76Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:SubProcess" id="\_B-ly0I77Ee-v648egk3nxQ" name="New Sub Process" outgoing="\_MtZe4I77Ee-v648egk3nxQ" incoming="\_DOVjcI77Ee-v648egk3nxQ">**

**<flowElements xsi:type="bpmn:StartEvent" id="\_EwIGUI77Ee-v648egk3nxQ" name="Start Event 4" outgoing="\_MRhbMI77Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:Task" id="\_GjPpwI77Ee-v648egk3nxQ" name="Task 6" outgoing="\_L7lAYI77Ee-v648egk3nxQ" incoming="\_MRhbMI77Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:EndEvent" id="\_H-9Z0I77Ee-v648egk3nxQ" name="End Event 4" incoming="\_L7lAYI77Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:SequenceFlow" id="\_L7lAYI77Ee-v648egk3nxQ" targetRef="\_H-9Z0I77Ee-v648egk3nxQ" sourceRef="\_GjPpwI77Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:SequenceFlow" id="\_MRhbMI77Ee-v648egk3nxQ" targetRef="\_GjPpwI77Ee-v648egk3nxQ" sourceRef="\_EwIGUI77Ee-v648egk3nxQ"/>**

**</flowElements>**

**<flowElements xsi:type="bpmn:SequenceFlow" id="\_DOVjcI77Ee-v648egk3nxQ" targetRef="\_B-ly0I77Ee-v648egk3nxQ" sourceRef="\_koO80I76Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:EndEvent" id="\_JNFZ0I77Ee-v648egk3nxQ" name="End Event 5" incoming="\_MtZe4I77Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:EndEvent" id="\_KefXUI77Ee-v648egk3nxQ" name="End Event 2" incoming="\_Lfp5YI77Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:SequenceFlow" id="\_Lfp5YI77Ee-v648egk3nxQ" targetRef="\_KefXUI77Ee-v648egk3nxQ" sourceRef="\_31QLUI76Ee-v648egk3nxQ"/>**

**<flowElements xsi:type="bpmn:SequenceFlow" id="\_MtZe4I77Ee-v648egk3nxQ" targetRef="\_JNFZ0I77Ee-v648egk3nxQ" sourceRef="\_B-ly0I77Ee-v648egk3nxQ"/>**

**<laneSets id="\_DbOlYY76Ee-v648egk3nxQ" name="Pool1">**

**<lanes id="\_DbOlYo76Ee-v648egk3nxQ" name="Lane 1" flowNodeRefs="\_grPi0I76Ee-v648egk3nxQ \_hrthUI76Ee-v648egk3nxQ \_5663UI76Ee-v648egk3nxQ \_-x5NUI76Ee-v648egk3nxQ"/>**

**</laneSets>**

**<laneSets id="\_DbOlYY76Ee-v648egk3nxZ" name="Pool 2">**

**<lanes id="\_DbOlYo76Ee-v648egk3nxZ" name="Lane 2" flowNodeRefs="\_koO80I76Ee-v648egk3nxQ \_opa6UI76Ee-v648egk3nxQ \_sRIn4I76Ee-v648egk3nxQ \_31QLUI76Ee-v648egk3nxQ \_KefXUI77Ee-v648egk3nxQ"/>**

**<lanes id="\_MtZUUI76Ee-v648egk3nxQ" name="Lane 3" flowNodeRefs="\_B-ly0I77Ee-v648egk3nxQ \_JNFZ0I77Ee-v648egk3nxQ"/>**

**</laneSets>**

**</rootElements>**

**</bpmn:Definitions>**

This is the XES trace file representing the modeling step done when we created the example BPMN model based on “BPMN Designer” metamodel:

**event Process laneSets ADD**

**event LaneSet lanes ADD**

**event LaneSet lanes ADD**

**event Lane name SET**

**event LaneSet lanes MOVE**

**event Lane name SET**

**event Process flowElements ADD**

**event Lane flowNodeRefs ADD**

**event Task name SET**

**event Process flowElements ADD**

**event Lane flowNodeRefs ADD**

**event StartEvent name SET**

**event Lane name SET**

**event Process flowElements ADD**

**event StartEvent outgoing ADD**

**event SequenceFlow sourceRef SET**

**event Task incoming ADD**

**event SequenceFlow targetRef SET**

**event Process flowElements ADD**

**event Lane flowNodeRefs ADD**

**event Task name SET**

**event Process flowElements ADD**

**event Task outgoing ADD**

**event SequenceFlow sourceRef SET**

**event Task incoming ADD**

**event SequenceFlow targetRef SET**

**event Lane flowNodeRefs ADD**

**event Process flowElements ADD**

**event Lane flowNodeRefs ADD**

**event StartEvent name SET**

**event Process flowElements ADD**

**event StartEvent outgoing ADD**

**event SequenceFlow sourceRef SET**

**event Task incoming ADD**

**event SequenceFlow targetRef SET**

**event Process flowElements ADD**

**event SubProcess name SET**

**event Lane flowNodeRefs ADD**

**event SubProcess flowElements ADD**

**event StartEvent name SET**

**event SubProcess flowElements ADD**

**event Task name SET**

**event SubProcess flowElements ADD**

**event EndEvent name SET**

**event SubProcess flowElements ADD**

**event StartEvent outgoing ADD**

**event SequenceFlow sourceRef SET**

**event Task incoming ADD**

**event SequenceFlow targetRef SET**

**event SubProcess flowElements ADD**

**event Task outgoing ADD**

**event SequenceFlow sourceRef SET**

**event EndEvent incoming ADD**

**event SequenceFlow targetRef SET**

**event Process flowElements ADD**

**event Task outgoing ADD**

**event SequenceFlow sourceRef SET**

**event SubProcess incoming ADD**

**event SequenceFlow targetRef SET**

**event Process flowElements ADD**

**event Lane flowNodeRefs ADD**

**event Task name SET**

**event Process flowElements ADD**

**event Lane flowNodeRefs ADD**

**event Task name SET**

**event Lane flowNodeRefs ADD**

**event Process flowElements ADD**

**event Task outgoing ADD**

**event SequenceFlow sourceRef SET**

**event Task incoming ADD**

**event SequenceFlow targetRef SET**

**event Lane flowNodeRefs ADD**

**event Process flowElements ADD**

**event SubProcess outgoing ADD**

**event SequenceFlow sourceRef SET**

**event Task incoming ADD**

**event SequenceFlow targetRef SET**

**event Process flowElements ADD**

**event Task outgoing ADD**

**event SequenceFlow sourceRef SET**

**event Task incoming ADD**

**event SequenceFlow targetRef SET**

**event Process flowElements ADD**

**event Lane flowNodeRefs ADD**

**event EndEvent name SET**

**event Process flowElements ADD**

**event Task outgoing ADD**

**event SequenceFlow sourceRef SET**

**event EndEvent incoming ADD**

**event SequenceFlow targetRef SET**

**event Process flowElements ADD**

**event SubProcess name SET**

**event Lane flowNodeRefs ADD**

**event Process flowElements ADD**

**event Task outgoing ADD**

**event SequenceFlow sourceRef SET**

**event SubProcess incoming ADD**

**event SequenceFlow targetRef SET**

**event SubProcess flowElements ADD**

**event StartEvent name SET**

**event SubProcess flowElements ADD**

**event Task name SET**

**event SubProcess flowElements ADD**

**event EndEvent name SET**

**event Process flowElements ADD**

**event Lane flowNodeRefs ADD**

**event EndEvent name SET**

**event Process flowElements ADD**

**event Lane flowNodeRefs ADD**

**event EndEvent name SET**

**event Process flowElements ADD**

**event Task outgoing ADD**

**event SequenceFlow sourceRef SET**

**event EndEvent incoming ADD**

**event SequenceFlow targetRef SET**

**event SubProcess flowElements ADD**

**event Task outgoing ADD**

**event SequenceFlow sourceRef SET**

**event EndEvent incoming ADD**

**event SequenceFlow targetRef SET**

**event SubProcess flowElements ADD**

**event StartEvent outgoing ADD**

**event SequenceFlow sourceRef SET**

**event Task incoming ADD**

**event SequenceFlow targetRef SET**

**event Process flowElements ADD**

**event SubProcess outgoing ADD**

**event SequenceFlow sourceRef SET**

**event EndEvent incoming ADD**

**event SequenceFlow targetRef SET**

**event LaneSet name SET**

**event LaneSet name SET**

Generate the full XES trace file from the following “BPMN-Designer” model, where the model represents another BPMN model: