

$\langle \text{ActivityModel} \rangle ::= \langle \text{Activity} \rangle^* \langle \text{ActivityConnection} \rangle$
 $\langle \text{Activity} \rangle ::= \langle \text{ActivityStart} \rangle \mid \langle \text{ActivityAction} \rangle \mid \langle \text{ActivityCondition} \rangle \mid \langle \text{ActivityDisplay} \rangle$
 $\langle \text{ActivityStart} \rangle ::= \epsilon$
 $\langle \text{ActivityAction} \rangle ::= \langle \text{ActivityFlowCall} \rangle \mid \langle \text{ActivityPitaBuildInforRequest} \rangle \mid \langle \text{ActivityLoadExternalData} \rangle$
 $\langle \text{ActivityFlowCall} \rangle ::= \text{ref}(\text{FlowTemplate}) \langle \text{ActivityPortValue} \rangle^* \langle \text{TemplateParameterValue} \rangle^* \langle \text{ValueTransformation} \rangle^*$
 $\langle \text{ActivityPitaBuildInforRequest} \rangle ::= \langle \text{string abdFilename} \rangle \langle \text{string requestAlias} \rangle \langle \text{string expectedSystems} \rangle^* \langle \text{number timeout} \rangle$
 $\langle \text{ActivityLoadExternalData} \rangle ::= \langle \text{Type dataType} \rangle \langle \text{string dataSource} \rangle$
 $\langle \text{ActivityPortValue} \rangle ::= \langle \text{FlowPortValue} \rangle \mid \langle \text{ActivityPortRefernce} \rangle$
 $\langle \text{FlowPortValue} \rangle ::= \langle \text{string} \rangle \mid \langle \text{number} \rangle \mid \langle \text{bool} \rangle \mid \langle \text{date} \rangle \mid \langle \text{FlowPortValue} \rangle^*$
 $\langle \text{ActivityPortRefernce} \rangle ::= \text{ref}(\text{ActivityAction}) (\text{ValueTransformation})^*$
 $\langle \text{ValueTransformation} \rangle ::= \langle \text{string objectReference} \rangle \mid \langle \text{number listIndex} \rangle$
 $\langle \text{ActivityCondition} \rangle ::= \langle \text{ActivityBinaryCondition} \rangle \mid \langle \text{ActivityValidityCondition} \rangle$
 $\langle \text{ActivityBinaryCondition} \rangle ::= \text{ref}(\text{FlowTemplate}) \langle \text{ActivityBinaryConditionOperator} \rangle \langle \text{ActivityPortValue left} \rangle \langle \text{ActivityPortValue right} \rangle$
 $\langle \text{ActivityValidityCondition} \rangle ::= \langle \text{ActivityPortValue} \rangle^*$
 $\langle \text{ActivityBinaryCondition} \rangle ::= '=' \mid '\neq' \mid '<' \mid '\leq' \mid '>' \mid '\geq'$
 $\langle \text{ActivityDisplay} \rangle ::= \langle \text{ActivityDisplayField} \rangle^*$
 $\langle \text{ActivityDisplayField} \rangle ::= \langle \text{string label} \rangle \langle \text{string color} \rangle \text{ref}(\text{ActivityAction})$

Grammatik TODO Aktivitätsmodell

$\langle FlowInstance \rangle ::= \langle FlowOutputPort \ lambdaArguments \rangle^* \langle FlowInputPort \ lambdaArguments \rangle^*$

$\langle FlowLambda \rangle ::= \langle FlowOutputPort \ lambdaArguments \rangle^* \langle FlowInputPort \ lambdaArguments \rangle^*$

$\langle FlowInputPort \rangle ::= \langle string \ name \rangle \langle Type \rangle \langle bool \ acceptsError \rangle$

$\langle FlowOutputPort \rangle ::= \langle string \ name \rangle \langle Type \rangle \langle bool \ producesError \rangle$

Grammatik TODO Flow-Instanz

$\langle FlowTemplate \rangle ::= \langle Flow \rangle \langle TemplateParameter \rangle^*$

$\langle Flow \rangle ::= \langle LibraryFlow \rangle \mid \langle FlowModel \rangle$

$\langle LibraryFlow \rangle ::= \epsilon$

$\langle TemplateParameter \rangle ::= 'String' \mid 'Number' \mid 'Bool' \mid \langle TemplateParameterList \rangle$

$\langle TemplateParameterList \rangle ::= \langle TemplateParameter \rangle$

Grammatik TODO Flow-Template

$\langle FlowModel \rangle ::= \langle FlowInstance \rangle \langle FlowNode \rangle^* \langle FlowConnection \rangle^*$

$\langle FlowNode \rangle ::= \langle FlowNodeOutput \rangle \mid \langle FlowNodeInput \rangle \mid \langle FlowNodeLambda \rangle \mid \langle FlowNodeFlowCall \rangle$

$\langle FlowNodeOutput \rangle ::= \text{ref}(\text{FlowOutputPort}) \langle FlowPortValue \rangle$

$\langle FlowNodeLambda \rangle ::= \text{ref}(\text{FlowLambda}) \langle FlowPortValue \rangle^*$

$\langle FlowNodeFlowCall \rangle ::= \text{ref}(\text{FlowTemplate}) \langle FlowPortValue \rangle^* \langle TemplateParameterValue \rangle^*$

$\langle FlowConnection \rangle ::= \text{ref}(\text{FlowOutputPort} \ source) \text{ref}(\text{FlowOutputPort} \ target)$

$\langle FlowConnection \rangle ::= \text{ref}(\text{FlowOutputPort} \ source) \text{ref}(\text{FlowOutputPort} \ target)$

$\langle TemplateParameterValue \rangle ::= \langle string \rangle \mid \langle number \rangle \mid \langle bool \rangle \mid \langle TemplateParameterValueList \rangle$

$\langle TemplateParameterValueList \rangle ::= \langle TemplateParameterValue \rangle^*$

Grammatik TODO Flow-Modell

$\langle Type \rangle ::= \langle TypePrimitive \rangle \mid \langle TypeOptional \rangle \mid \langle TypeList \rangle \mid \langle TypeObject \rangle$

$\langle TypePrimitive \rangle ::= 'String' \mid 'Number' \mid 'Bool' \mid 'Data' \mid 'PtiaResponse'$

$\langle TypeOptional \rangle ::= \langle Type \rangle '?'$

$\langle TypeList \rangle ::= \langle Type \rangle '[]'$

$\langle TypeObject \rangle ::= '\{ (\langle string\ key \rangle ':' \langle Type \rangle)^* \}'$

$\langle TypeGeneric \rangle ::= '\$ \langle string\ genericName \rangle'$

$\langle TypeReference \rangle ::= \text{ref}(\text{Type})$

Grammatik TODO Typ-Definition mit generischen und Referenz-Typen