<config services=’TagFileBuffer’><drop/>  
<output path=’C:\Users\217216X710581\WorkspaceMLSAPI\MEF-LSO-Legato-SDK\experimental\doc\MLSAPI\_Gendoc\_Model.docx' /><drop/>  
</config> <drop/>

<context model=’C:\Users\217216X710581\WorkspaceMLSAPI\MEF-LSO-Legato-SDK\experimental\uml\LegatoApi.notation' element=’{0}’ importedBundles='gmf;papyrus' /><drop/>

<gendoc><drop/>

## UML Model

[for (d : notation::Diagram |notation::Diagram.allInstances()->sortedBy(name))]<drop/>

[if (d.name.contains(‘LSAPI’))]<drop/>

### [d.name/]

<image object='[d.getDiagram()/]' maxW='true' keepH='false' keepW=’false’ ><drop/>

</image><drop/>

[/if] <drop/>

[/for]<drop/>

</gendoc><drop/>

<context model=’C:\Users\217216X710581\WorkspaceMLSAPI\MEF-LSO-Legato-SDK\experimental\uml\LegatoApi**.**uml’ element=’{0}’ importedBundles='gmf;papyrus' />

<gendoc><drop/>

## Classes

[for (cl:Class | self.eAllContents(Class)->sortedBy(name))]<drop/>

### [cl.name/]

[for (co:Comment | cl.ownedComment)]<drop/>

<dropEmpty>[co.\_body.clean()/]</dropEmpty>

[/for]<drop/>

Applied stereotypes:

[for (st:Stereotype | cl.getAppliedStereotypes())]<drop/>

* [st.name/]

[for (oa:Property|st.ownedAttribute)]<drop/>

* [if (not oa.name.contains('base'))][oa.name/]: [if (not cl.getValue(st, oa.name).oclIsUndefined())][if oa.name.contains('condition')][cl.getValue(st, oa.name).oclAsType(String)/] [else][cl.getValue(st, oa.name).oclAsType(EnumerationLiteral).name/][/if][else]<drop/>[/if]

[/if] <drop/>

[/for]<drop/>

[/for]<drop/>

[if cl.allAttributes()->notEmpty()]<drop/>

<table><drop/>

| **Attribute Name** | **Type** | **Mult.** | **Access** | **Stereotypes** | **Description** |
| --- | --- | --- | --- | --- | --- |

[for (p:Property|cl.allAttributes())]<drop/>

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| [p.name/] | [p.type.name/] | [if(p.lower=p.upper)]1[else][p.lower/]..[if(p.upper=-1)]\*[else][p.upper/][/if][/if] | [if(p.isReadOnly)]R[else]RW[/if] | [for (st:Stereotype | p.getAppliedStereotypes())]<drop/>  [st.name/]  [for(oa:Property|st.ownedAttribute)]<drop/>   * [if oa.name.contains('attribute')]AVC: [p.getValue(st, oa.name).oclAsType(EnumerationLiteral).name/]   [else]<drop/>   * [if oa.name.contains('isInvariant')]isInvariant: [p.getValue(st, oa.name).oclAsType(Boolean)/]   [else]<drop/>   * [if oa.name.contains('value')]valueRange: [if (not p.getValue(st, oa.name).oclIsUndefined())][p.getValue(st, oa.name).oclAsType(String).clean()/][else] no range constraint [/if]   [else]<drop/>   * [if oa.name.contains('support')]support: [p.getValue(st, oa.name).oclAsType(EnumerationLiteral).name/]   [else]<drop/>   * [if oa.name.contains('condition')][if (not p.getValue(st, oa.name).oclIsUndefined())]condition:[p.getValue(st, oa.name).oclAsType(String).clean()/][else] <drop/> [/if]   [else]<drop/>   * [if oa.name.contains('passedByRef')] [if (not p.getValue(st, oa.name).oclIsUndefined())][p.getValue(st, oa.name).oclAsType(Boolean)/][else] undefined [/if]   [else]<drop/>   * [if oa.name.contains('reference')][if (not p.getValue(st, oa.name).oclIsUndefined())]reference:[p.getValue(st, oa.name).oclAsType(String).clean()/][else] <drop/> [/if]   [/if]<drop/>  [/if]<drop/>  [/if]<drop/>  [/if]<drop/>  [/if]<drop/>  [/if]<drop/>  [/if]<drop/>  [/for]<drop/>  [/for]<drop/> | [for (c:Comment | p.ownedComment)] <drop/>  [c.\_body.clean()/]  [/for] |

[/for]<drop/>

</table><drop/>

[else][/if]<drop/>

[/for]<drop/>

## Enumeration & Data Types

[for (dt:DataType | self.eAllContents(DataType)->sortedBy(name))]<drop/>

[if dt.oclIsTypeOf(DataType)]<drop/>

### [dt.name/]

[for (co:Comment | dt.ownedComment)]<drop/>

<dropEmpty>[co.\_body.clean()/]</dropEmpty>

[/for]<drop/>

[if dt.ownedAttribute->notEmpty()]<drop/>

<table><drop/>

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **Type** | **Mult.** | **Access** | **Stereotypes** | **Description** |

[for (p:Property|dt.allAttributes())]<drop/>

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| [p.name/] | [p.type.name/] | [if(p.lower=p.upper)]1[else][p.lower/]..[if(p.upper=-1)]\*[else][p.upper/][/if][/if] | [if(not(p.isReadOnly))]RW[else]R[/if] | [for (st:Stereotype | p.getAppliedStereotypes())]<drop/>  [st.name/]  [for(oa:Property|st.ownedAttribute)]<drop/>   * [if oa.name.contains('attribute')]AVC: [p.getValue(st, oa.name).oclAsType(EnumerationLiteral).name/]   [else]<drop/>   * [if oa.name.contains('isInvariant')]isInvariant: [p.getValue(st, oa.name).oclAsType(Boolean)/]   [else]<drop/>   * [if oa.name.contains('value')]valueRange: [if (not p.getValue(st, oa.name).oclIsUndefined())][p.getValue(st, oa.name).oclAsType(String).clean()/][else] no range constraint [/if]   [else]<drop/>   * [if oa.name.contains('support')]support: [p.getValue(st, oa.name).oclAsType(EnumerationLiteral).name/]   [else]<drop/>   * [if oa.name.contains('condition')][if (not p.getValue(st, oa.name).oclIsUndefined())]condition:[p.getValue(st, oa.name).oclAsType(String).clean()/][else] <drop/> [/if]   [else]<drop/>   * [if oa.name.contains('passedByRef')] [if (not p.getValue(st, oa.name).oclIsUndefined())][p.getValue(st, oa.name).oclAsType(Boolean)/][else] undefined [/if]   [else]<drop/>  [/if]<drop/>  [/if]<drop/>  [/if]<drop/>  [/if]<drop/>  [/if]<drop/>  [/if]<drop/>  [/for]<drop/>  [/for]<drop/> | [for (c:Comment | p.ownedComment)] <drop/>  [c.\_body.clean()/]  [/for] |

[/for]<drop/>

</table><drop/>

[else][/if]<drop/>

[else][/if]<drop/>

[/for]<drop/>

[for (dt:DataType | self.eAllContents(DataType)->sortedBy(name))]<drop/>

[if dt.oclIsTypeOf(Enumeration)]<drop/>

### [dt.name/]

[for (co:Comment | dt.ownedComment)]<drop/>

<dropEmpty>[co.\_body.clean()/]</dropEmpty>

[/for]<drop/>

Contains Enumeration Literals:

[for (e:EnumerationLiteral|dt.oclAsType(Enumeration).ownedLiteral)]<drop/>

* [e.name/]:
  + [for (co:Comment | e.ownedComment)]<drop/>
  + <dropEmpty>[co.\_body.clean()/]
  + </dropEmpty>[/for]<drop/>

[/for]<drop/>

[else] [/if]<drop/>

[/for]<drop/>

[for (dt:DataType | self.eAllContents(DataType)->sortedBy(name))]<drop/>

[if dt.oclIsTypeOf(PrimitiveType)]<drop/>

### [dt.name/]

[for (co:Comment | dt.ownedComment)]<drop/>

<dropEmpty>[co.\_body.clean()/]</dropEmpty>

[/for]<drop/>

[else] [/if]<drop/>

[/for]<drop/>

## Interfaces & Operations

[for (it:Interface | self.eAllContents(Interface)->sortedBy(name))]<drop/>

### [it.name/]

[for (co:Comment | it.ownedComment)]<drop/>

<dropEmpty>[co.\_body.clean()/]</dropEmpty>

[/for]<drop/>

Applied stereotypes:

[for (st:Stereotype | it.getAppliedStereotypes())]<drop/>

* [st.name/]

[for (oa:Property|st.ownedAttribute)]<drop/>

* [if (not oa.name.contains('base'))][oa.name/]: [if (not it.getValue(st, oa.name).oclIsUndefined())][if oa.name.contains('condition')][it.getValue(st, oa.name).oclAsType(String)/] [else][it.getValue(st, oa.name).oclAsType(EnumerationLiteral).name/][/if][else]<drop/>[/if]

[/if] <drop/>

[/for]<drop/>

[/for]<drop/>

[for (op:Operation | self.eAllContents(Operation)->sortedBy(name))]<drop/>

#### [op.name/]

[for (co:Comment | op.ownedComment)]<drop/>

<dropEmpty>[co.\_body.clean()/]</dropEmpty>

[/for]<drop/>

Applied stereotypes:

[for (st:Stereotype | op.getAppliedStereotypes())]<drop/>

* [st.name/]

[for (oa:Property|st.ownedAttribute)]<drop/>

* [if (not oa.name.contains('base'))][oa.name/]:[if (not op.getValue(st, oa.name).oclIsUndefined())][if oa.name.contains('isOperation')][op.getValue(st, oa.name).oclAsType(Boolean)/][else][if oa.name.contains('condition')][op.getValue(st, oa.name).oclAsType(String)/][else][op.getValue(st, oa.name).oclAsType(EnumerationLiteral).name/][/if][/if]

[/if]<drop/>

[/if]<drop/>

[/for]<drop/>

[/for]<drop/>

[if op.ownedParameter->notEmpty()]<drop/>

<table><drop/>

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Parameter Name** | **Type** | **Dir.** | **Multi.** | **Stereotypes** | **Description** |

[for (p:Parameter|op.ownedParameter)]<drop/>

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| [p.name/] | [p.type.name/] | [p.direction/] | [if(p.lower=p.upper)]1[else][p.lower/]..[if(p.upper=-1)]\*[else][p.upper/][/if][/if] | [for (st:Stereotype | p.getAppliedStereotypes())]<drop/>  [st.name/]  [for(oa:Property|st.ownedAttribute)]<drop/>   * [if oa.name.contains('value')]valueRange: [if (not p.getValue(st, oa.name).oclIsUndefined())][p.getValue(st, oa.name).oclAsType(String)/][else] no range constraint [/if]   [else]<drop/>   * [if oa.name.contains('support')]support: [p.getValue(st, oa.name).oclAsType(EnumerationLiteral).name/]   [else]<drop/>   * [if oa.name.contains('condition')][if (not p.getValue(st, oa.name).oclIsUndefined())]condition:[p.getValue(st, oa.name).oclAsType(String)/][else] <drop/> [/if]   [else]<drop/>  [/if]<drop/>  [/if]<drop/>  [/if]<drop/>  [/for]<drop/>  [/for]<drop/> | [for (c:Comment | p.ownedComment)] <drop/>  [c.\_body.clean()/]  [/for] |

[/for]<drop/>

</table><drop/>

[else][/if]<drop/>

[/for]<drop/>

[/for]<drop/>

</gendoc><drop/>