

Schema TC6_XML_V201.xsd

schema location: http://www.plcopen.org/tc6_xml/tc6_xml_v201.xsd
 attribute form default: **unqualified**
 element form default: **qualified**
 targetNamespace: http://www.plcopen.org/xml/tc6_0201

Elements	Groups	Complex types	Simple types
project	commonObjects	addData	accessType
	derivedTypes	addDataInfo	edgeModifierType
	elementaryTypes	body	pouType
	extended	connection	storageModifierType
	fbdObjects	connectionPointIn	
	IdObjects	connectionPointOut	
	sfcObjects	dataType	
		formattedText	
		position	
		pouInstance	
		rangeSigned	
		rangeUnsigned	
		value	
		varList	
		varListAccess	
		varListConfig	
		varListPlain	

element project

diagram	<p>The diagram shows the structure of the <code>project</code> element. It consists of a sequence of sub-elements: <code>ppx:fileHeader</code>, <code>ppx:contentHeader</code>, <code>ppx:types</code>, <code>ppx:instances</code>, <code>ppx:addData</code>, and <code>ppx:documentation</code>. The last two elements, <code>ppx:addData</code> and <code>ppx:documentation</code>, are enclosed in a dashed box and labeled as "Additional userspecific information to the element".</p>
namespace	http://www.plcopen.org/xml/tc6_0201
properties	content complex
children	ppx:fileHeader ppx:contentHeader ppx:types ppx:instances ppx:addData ppx:documentation
annotation	documentation The complete project

source

```
<xsd:element name="project">
  <xsd:annotation>
    <xsd:documentation>The complete project</xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="fileHeader">
        <xsd:complexType>
          <xsd:attribute name="companyName" type="xsd:string" use="required"/>
          <xsd:attribute name="companyURL" type="xsd:anyURI" use="optional"/>
          <xsd:attribute name="productName" type="xsd:string" use="required"/>
          <xsd:attribute name="productVersion" type="xsd:string" use="required"/>
          <xsd:attribute name="productRelease" type="xsd:string" use="optional"/>
          <xsd:attribute name="creationDateTime" type="xsd:dateTime" use="required"/>
          <xsd:attribute name="contentDescription" type="xsd:string" use="optional"/>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="contentHeader">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="Comment" type="xsd:string" minOccurs="0"/>
            <xsd:element name="coordinateInfo">
              <xsd:complexType>
                <xsd:sequence>
                  <xsd:element name="pageSize" minOccurs="0">
                    <xsd:complexType>
                      <xsd:attribute name="x" type="xsd:decimal" use="required"/>
                      <xsd:attribute name="y" type="xsd:decimal" use="required"/>
                    </xsd:complexType>
                  </xsd:element>
                </xsd:sequence>
              </xsd:complexType>
            </xsd:element>
            <xsd:element name="fbd">
              <xsd:complexType>
                <xsd:sequence>
                  <xsd:element name="scaling">
                    <xsd:complexType>
                      <xsd:attribute name="x" type="xsd:decimal" use="required"/>
                      <xsd:attribute name="y" type="xsd:decimal" use="required"/>
                    </xsd:complexType>
                  </xsd:element>
                </xsd:sequence>
              </xsd:complexType>
            </xsd:element>
            <xsd:element name="ld">
              <xsd:complexType>
                <xsd:sequence>
                  <xsd:element name="scaling">
                    <xsd:complexType>
                      <xsd:attribute name="x" type="xsd:decimal" use="required"/>
                      <xsd:attribute name="y" type="xsd:decimal" use="required"/>
                    </xsd:complexType>
                  </xsd:element>
                </xsd:sequence>
              </xsd:complexType>
            </xsd:element>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="sfc">
```

```

<xsd:complexType>
  <xsd:sequence>
    <xsd:element name="scaling">
      <xsd:complexType>
        <xsd:attribute name="x" type="xsd:decimal" use="required"/>
        <xsd:attribute name="y" type="xsd:decimal" use="required"/>
      </xsd:complexType>
    </xsd:element>
  </xsd:sequence>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="addDataInfo" type="ppx:addDataInfo" minOccurs="0"/>
<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
</xsd:sequence>
<xsd:attribute name="name" type="xsd:string" use="required"/>
<xsd:attribute name="version" type="xsd:string" use="optional"/>
<xsd:attribute name="modificationDateTime" type="xsd:dateTime" use="optional"/>
<xsd:attribute name="organization" type="xsd:string" use="optional"/>
<xsd:attribute name="author" type="xsd:string" use="optional"/>
<xsd:attribute name="language" type="xsd:language" use="optional"/>
<xsd:annotation>
  <xsd:documentation>Documentation language of the project e.g. "en-
US" </xsd:documentation>
</xsd:annotation>
</xsd:attribute>
</xsd:complexType>
</xsd:element>
<xsd:element name="types">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="dataTypes">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="dataType" minOccurs="0" maxOccurs="unbounded">
              <xsd:complexType>
                <xsd:sequence>
                  <xsd:element name="baseType" type="ppx:dataType"/>
                  <xsd:element name="initialValue" type="ppx:value" minOccurs="0"/>
                  <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
                  <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
                    <xsd:annotation>
                      <xsd:documentation>Additional userspecific information to the
element</xsd:documentation>
                    </xsd:annotation>
                  </xsd:element>
                </xsd:sequence>
              <xsd:attribute name="name" type="xsd:string" use="required"/>
            </xsd:complexType>
          </xsd:element>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
  </xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="pous">

```

```
<xsd:complexType>
  <xsd:sequence>
    <xsd:element name="pou" minOccurs="0" maxOccurs="unbounded">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element name="interface" minOccurs="0">
            <xsd:complexType>
              <xsd:sequence>
                <xsd:element name="returnType" type="ppx:dataType" minOccurs="0"/>
                <xsd:choice minOccurs="0" maxOccurs="unbounded">
                  <xsd:element name="localVars">
                    <xsd:complexType>
                      <xsd:complexContent>
                        <xsd:extension base="ppx:varList"/>
                      </xsd:complexContent>
                    </xsd:complexType>
                  </xsd:element>
                  <xsd:element name="tempVars">
                    <xsd:complexType>
                      <xsd:complexContent>
                        <xsd:extension base="ppx:varList"/>
                      </xsd:complexContent>
                    </xsd:complexType>
                  </xsd:element>
                  <xsd:element name="inputVars">
                    <xsd:complexType>
                      <xsd:complexContent>
                        <xsd:extension base="ppx:varList"/>
                      </xsd:complexContent>
                    </xsd:complexType>
                  </xsd:element>
                  <xsd:element name="outputVars">
                    <xsd:complexType>
                      <xsd:complexContent>
                        <xsd:extension base="ppx:varList"/>
                      </xsd:complexContent>
                    </xsd:complexType>
                  </xsd:element>
                  <xsd:element name="inOutVars">
                    <xsd:complexType>
                      <xsd:complexContent>
                        <xsd:extension base="ppx:varList"/>
                      </xsd:complexContent>
                    </xsd:complexType>
                  </xsd:element>
                  <xsd:element name="externalVars">
                    <xsd:complexType>
                      <xsd:complexContent>
                        <xsd:extension base="ppx:varList"/>
                      </xsd:complexContent>
                    </xsd:complexType>
                  </xsd:element>
                  <xsd:element name="globalVars">
                    <xsd:complexType>
                      <xsd:complexContent>
                        <xsd:extension base="ppx:varList"/>
                      </xsd:complexContent>
                    </xsd:complexType>
                  </xsd:element>
                </xsd:choice>
              </xsd:sequence>
            </xsd:complexType>
          </xsd:element>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
  </xsd:sequence>
</xsd:complexType>
```

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        </xsd:complexContent>
        </xsd:complexType>
    </xsd:element>
    <xsd:element name="accessVars" type="ppx:varList"/>
</xsd:choice>
<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
    <xsd:annotation>
        <xsd:documentation>Additional userspecific information to the
element</xsd:documentation>
    </xsd:annotation>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="actions" minOccurs="0">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="action" minOccurs="0" maxOccurs="unbounded">
                <xsd:complexType>
                    <xsd:sequence>
                        <xsd:element name="body" type="ppx:body"/>
                        <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
                        <xsd:element name="documentation" type="ppx:formattedText"
minOccurs="0">
                            <xsd:annotation>
                                <xsd:documentation>Additional userspecific information to the
element</xsd:documentation>
                            </xsd:annotation>
                        </xsd:element>
                    </xsd:sequence>
                    <xsd:attribute name="name" type="xsd:string" use="required"/>
                    <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
                </xsd:complexType>
            </xsd:element>
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="transitions" minOccurs="0">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="transition" minOccurs="0" maxOccurs="unbounded">
                <xsd:complexType>
                    <xsd:sequence>
                        <xsd:element name="body" type="ppx:body"/>
                        <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
                        <xsd:element name="documentation" type="ppx:formattedText"
minOccurs="0">
                            <xsd:annotation>
                                <xsd:documentation>Additional userspecific information to the
element</xsd:documentation>
                            </xsd:annotation>
                        </xsd:element>
                    </xsd:sequence>
                    <xsd:attribute name="name" type="xsd:string" use="required"/>
                    <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
                </xsd:complexType>
            </xsd:element>
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>

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        </xsd:complexType>
    </xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="body" type="ppx:body" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
    <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>Additional userspecific information to the
element</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
</xsd:sequence>
<xsd:attribute name="name" type="xsd:string" use="required"/>
<xsd:attribute name="pouType" type="ppx:pouType" use="required"/>
<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="instances">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="configurations">
                <xsd:complexType>
                    <xsd:sequence>
                        <xsd:element name="configuration" minOccurs="0" maxOccurs="unbounded">
                            <xsd:complexType>
                                <xsd:annotation>
                                    <xsd:documentation>Represents a group of resources and global
variables</xsd:documentation>
                                </xsd:annotation>
                            </xsd:sequence>
                            <xsd:element name="resource" minOccurs="0" maxOccurs="unbounded">
                                <xsd:complexType>
                                    <xsd:annotation>
                                        <xsd:documentation>Represents a group of programs and tasks and global
variables</xsd:documentation>
                                    </xsd:annotation>
                                </xsd:sequence>
                                <xsd:element name="task" minOccurs="0" maxOccurs="unbounded">
                                    <xsd:complexType>
                                        <xsd:annotation>
                                            <xsd:documentation>Represents a periodic or triggered
task</xsd:documentation>
                                        </xsd:annotation>
                                    </xsd:sequence>
                                    <xsd:element name="pouInstance" type="ppx:pouInstance" minOccurs="0"
maxOccurs="unbounded"/>
                                <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>

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minOccurs="0">
    <xsd:element name="documentation" type="ppx:formattedText"
    <xsd:annotation>
    <xsd:documentation>Additional userspecific information to the
element</xsd:documentation>
    </xsd:annotation>
    </xsd:element>
</xsd:sequence>
<xsd:attribute name="name" type="xsd:string" use="required"/>
<xsd:attribute name="single" type="xsd:string" use="optional"/>
<xsd:attribute name="interval" type="xsd:string" use="optional">
    <xsd:annotation>
    <xsd:documentation>Vendor specific: Either a constant duration as defined
in the IEC or variable name.</xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="priority" use="required">
    <xsd:simpleType>
    <xsd:restriction base="xsd:integer">
    <xsd:minInclusive value="0"/>
    <xsd:maxInclusive value="65535"/>
    </xsd:restriction>
    </xsd:simpleType>
</xsd:attribute>
<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>
</xsd:element>
<xsd:element name="globalVars" type="ppx:varList" minOccurs="0"
maxOccurs="unbounded"/>
<xsd:element name="poulInstance" type="ppx:poulInstance" minOccurs="0"
maxOccurs="unbounded"/>
<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
    <xsd:annotation>
    <xsd:documentation>Additional userspecific information to the
element</xsd:documentation>
    </xsd:annotation>
</xsd:element>
</xsd:sequence>
<xsd:attribute name="name" type="xsd:string" use="required"/>
<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>
</xsd:element>
<xsd:element name="globalVars" type="ppx:varList" minOccurs="0"
maxOccurs="unbounded"/>
<xsd:element name="accessVars" type="ppx:varListAccess" minOccurs="0"/>
<xsd:element name="configVars" type="ppx:varListConfig" minOccurs="0"/>
<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
    <xsd:annotation>
    <xsd:documentation>Additional userspecific information to the
element</xsd:documentation>
    </xsd:annotation>
</xsd:element>
</xsd:sequence>
<xsd:attribute name="name" type="xsd:string" use="required"/>

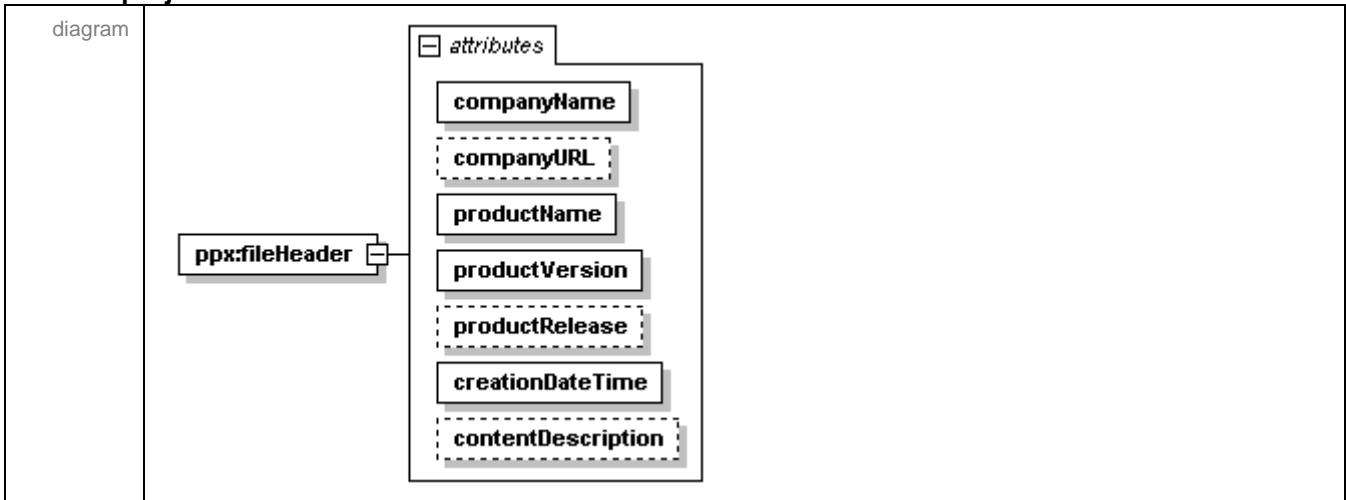
```

```

        <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
    </xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
    <xsd:annotation>
        <xsd:documentation>Additional userspecific information to the element</xsd:documentation>
    </xsd:annotation>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>

```

element **project/fileHeader**



namespace `http://www.plcopen.org/xml/tc6_0201`

properties `isRef 0`
`content complex`

attributes	Name	Type	Use	Default	Fixed	annotation
	companyName	xsd:string	required			
	companyURL	xsd:anyURI	optional			
	productName	xsd:string	required			
	productVersion	xsd:string	required			
	productRelease	xsd:string	optional			
	creationDateTime	xsd:dateTime	required			
	contentDescription	xsd:string	optional			

source

```

<xsd:element name="fileHeader">
    <xsd:complexType>
        <xsd:attribute name="companyName" type="xsd:string" use="required"/>
        <xsd:attribute name="companyURL" type="xsd:anyURI" use="optional"/>
        <xsd:attribute name="productName" type="xsd:string" use="required"/>

```


	<pre> <xsd:attribute name="productVersion" type="xsd:string" use="required"/> <xsd:attribute name="productRelease" type="xsd:string" use="optional"/> <xsd:attribute name="creationDateTime" type="xsd:dateTime" use="required"/> <xsd:attribute name="contentDescription" type="xsd:string" use="optional"/> </xsd:complexType> </xsd:element> </pre>
--	--

attribute project/fileHeader/@companyName

type	xsd:string
properties	isRef 0 use required
source	<pre><xsd:attribute name="companyName" type="xsd:string" use="required"/></pre>

attribute project/fileHeader/@companyURL

type	xsd:anyURI
properties	isRef 0 use optional
source	<pre><xsd:attribute name="companyURL" type="xsd:anyURI" use="optional"/></pre>

attribute project/fileHeader/@productName

type	xsd:string
properties	isRef 0 use required
source	<pre><xsd:attribute name="productName" type="xsd:string" use="required"/></pre>

attribute project/fileHeader/@productVersion

type	xsd:string
properties	isRef 0 use required
source	<pre><xsd:attribute name="productVersion" type="xsd:string" use="required"/></pre>

attribute project/fileHeader/@productRelease

type	xsd:string
properties	isRef 0 use optional
source	<pre><xsd:attribute name="productRelease" type="xsd:string" use="optional"/></pre>

attribute project/fileHeader/@creationDateTime

type	xsd:dateTime
properties	isRef 0 use required
source	<pre><xsd:attribute name="creationDateTime" type="xsd:dateTime" use="required"/></pre>

attribute **project/fileHeader/@contentDescription**

type	xsd:string
properties	isRef 0 use optional
source	<code><xsd:attribute name="contentDescription" type="xsd:string" use="optional"/></code>

element **project/contentHeader**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
properties	isRef 0 content complex					
children	ppx:Comment ppx:coordinateInfo ppx:addDataInfo ppx:addData					
attributes	Name	Type	Use	Default	Fixed	annotation
	name	xsd:string	required			
	version	xsd:string	optional			
	modificationDateTime	xsd:dateTime	optional			
	organization	xsd:string	optional			
	author	xsd:string	optional			
	language	xsd:language	optional			documentation Documentation language of the project e.g. "en-US"
source	<code><xsd:element name="contentHeader"></code> <code><xsd:complexType></code> <code><xsd:sequence></code>					

```

<xsd:element name="Comment" type="xsd:string" minOccurs="0"/>
<xsd:element name="coordinateInfo">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="pageSize" minOccurs="0">
        <xsd:complexType>
          <xsd:attribute name="x" type="xsd:decimal" use="required"/>
          <xsd:attribute name="y" type="xsd:decimal" use="required"/>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="fbd">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="scaling">
              <xsd:complexType>
                <xsd:attribute name="x" type="xsd:decimal" use="required"/>
                <xsd:attribute name="y" type="xsd:decimal" use="required"/>
              </xsd:complexType>
            </xsd:element>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="ld">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="scaling">
              <xsd:complexType>
                <xsd:attribute name="x" type="xsd:decimal" use="required"/>
                <xsd:attribute name="y" type="xsd:decimal" use="required"/>
              </xsd:complexType>
            </xsd:element>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="sfc">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="scaling">
              <xsd:complexType>
                <xsd:attribute name="x" type="xsd:decimal" use="required"/>
                <xsd:attribute name="y" type="xsd:decimal" use="required"/>
              </xsd:complexType>
            </xsd:element>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="addDataInfo" type="ppx:addDataInfo" minOccurs="0"/>
<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
</xsd:sequence>
<xsd:attribute name="name" type="xsd:string" use="required"/>
<xsd:attribute name="version" type="xsd:string" use="optional"/>
<xsd:attribute name="modificationDateTime" type="xsd:dateTime" use="optional"/>
<xsd:attribute name="organization" type="xsd:string" use="optional"/>

```

	<pre> <xsd:attribute name="author" type="xsd:string" use="optional"/> <xsd:attribute name="language" type="xsd:language" use="optional"> <xsd:annotation> <xsd:documentation>Documentation language of the project e.g. "en- US"</xsd:documentation> </xsd:annotation> </xsd:attribute> </xsd:complexType> </xsd:element> </pre>
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attribute **project/contentHeader/@name**

type	xsd:string
properties	isRef 0 use required
source	<pre><xsd:attribute name="name" type="xsd:string" use="required"/></pre>

attribute **project/contentHeader/@version**

type	xsd:string
properties	isRef 0 use optional
source	<pre><xsd:attribute name="version" type="xsd:string" use="optional"/></pre>

attribute **project/contentHeader/@modificationDateTime**

type	xsd:dateTime
properties	isRef 0 use optional
source	<pre><xsd:attribute name="modificationDateTime" type="xsd:dateTime" use="optional"/></pre>

attribute **project/contentHeader/@organization**

type	xsd:string
properties	isRef 0 use optional
source	<pre><xsd:attribute name="organization" type="xsd:string" use="optional"/></pre>

attribute **project/contentHeader/@author**

type	xsd:string
properties	isRef 0 use optional
source	<pre><xsd:attribute name="author" type="xsd:string" use="optional"/></pre>

attribute **project/contentHeader/@language**

type	xsd:language
------	---------------------

properties	isRef 0 use optional
annotation	documentation Documentation language of the project e.g. "en-US"
source	<pre><xsd:attribute name="language" type="xsd:language" use="optional"> <xsd:annotation> <xsd:documentation>Documentation language of the project e.g. "en-US"</xsd:documentation> </xsd:annotation> </xsd:attribute></pre>

element **project/contentHeader/Comment**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	xsd:string
properties	isRef 0 minOcc 0 maxOcc 1 content simple
source	<pre><xsd:element name="Comment" type="xsd:string" minOccurs="0"/></pre>

element **project/contentHeader/coordinateInfo**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0 content complex
children	ppx:pageSize ppx:fd ppx:ld ppx:sfc
source	<pre><xsd:element name="coordinateInfo"> <xsd:complexType> <xsd:sequence> <xsd:element name="pageSize" minOccurs="0"> <xsd:complexType> <xsd:attribute name="x" type="xsd:decimal" use="required"/> <xsd:attribute name="y" type="xsd:decimal" use="required"/> </xsd:complexType> </xsd:element> <xsd:element name="fd"> <xsd:complexType> <xsd:sequence> <xsd:element name="scaling"> <xsd:complexType> <xsd:attribute name="x" type="xsd:decimal" use="required"/></pre>

```

        <xsd:attribute name="y" type="xsd:decimal" use="required"/>
    </xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="ld">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="scaling">
                <xsd:complexType>
                    <xsd:attribute name="x" type="xsd:decimal" use="required"/>
                    <xsd:attribute name="y" type="xsd:decimal" use="required"/>
                </xsd:complexType>
            </xsd:element>
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="sfc">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="scaling">
                <xsd:complexType>
                    <xsd:attribute name="x" type="xsd:decimal" use="required"/>
                    <xsd:attribute name="y" type="xsd:decimal" use="required"/>
                </xsd:complexType>
            </xsd:element>
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>

```

element **project/contentHeader/coordinateInfo/pageSize**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
properties	isRef	0				
	minOcc	0				
	maxOcc	1				
	content	complex				
attributes	Name	Type	Use	Default	Fixed	annotation
	x	xsd:decimal	required			
	y	xsd:decimal	required			
source	<pre> <xsd:element name="pageSize" minOccurs="0"> <xsd:complexType> <xsd:attribute name="x" type="xsd:decimal" use="required"/> <xsd:attribute name="y" type="xsd:decimal" use="required"/> </xsd:complexType> </xsd:element> </pre>					

	<pre></xsd:complexType> </xsd:element></pre>
--	--

attribute **project/contentHeader/coordinateInfo/pageSize/@x**

type	xsd:decimal
properties	isRef 0 use required
source	<pre><xsd:attribute name="x" type="xsd:decimal" use="required"/></pre>

attribute **project/contentHeader/coordinateInfo/pageSize/@y**

type	xsd:decimal
properties	isRef 0 use required
source	<pre><xsd:attribute name="y" type="xsd:decimal" use="required"/></pre>

element **project/contentHeader/coordinateInfo/fbd**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0 content complex
children	ppx:scaling
source	<pre><xsd:element name="fbd"> <xsd:complexType> <xsd:sequence> <xsd:element name="scaling"> <xsd:complexType> <xsd:attribute name="x" type="xsd:decimal" use="required"/> <xsd:attribute name="y" type="xsd:decimal" use="required"/> </xsd:complexType> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element></pre>

element **project/contentHeader/coordinateInfo/fbd/scaling**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0

	content	complex					
attributes	Name	Type	Use	Default	Fixed	annotation	
	<u>x</u>	xsd:decimal	required				
	<u>y</u>	xsd:decimal	required				
source	<pre><xsd:element name="scaling"> <xsd:complexType> <xsd:attribute name="x" type="xsd:decimal" use="required"/> <xsd:attribute name="y" type="xsd:decimal" use="required"/> </xsd:complexType> </xsd:element></pre>						

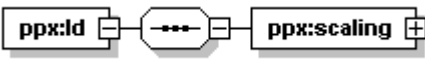
attribute **project/contentHeader/coordinateInfo/fbd/scaling/@x**

type	xsd:decimal
properties	isRef 0 use required
source	<pre><xsd:attribute name="x" type="xsd:decimal" use="required"/></pre>

attribute **project/contentHeader/coordinateInfo/fbd/scaling/@y**

type	xsd:decimal
properties	isRef 0 use required
source	<pre><xsd:attribute name="y" type="xsd:decimal" use="required"/></pre>

element **project/contentHeader/coordinateInfo/ld**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0 content complex
children	ppx:scaling
source	<pre><xsd:element name="ld"> <xsd:complexType> <xsd:sequence> <xsd:element name="scaling"> <xsd:complexType> <xsd:attribute name="x" type="xsd:decimal" use="required"/> <xsd:attribute name="y" type="xsd:decimal" use="required"/> </xsd:complexType> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element></pre>

element **project/contentHeader/coordinateInfo/ld/scaling**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
properties	isRef	0	content	complex		
attributes	Name	Type	Use	Default	Fixed	annotation
	x	xsd:decimal	required			
	y	xsd:decimal	required			
source	<pre><xsd:element name="scaling"> <xsd:complexType> <xsd:attribute name="x" type="xsd:decimal" use="required"/> <xsd:attribute name="y" type="xsd:decimal" use="required"/> </xsd:complexType> </xsd:element></pre>					

attribute **project/contentHeader/coordinateInfo/ld/scaling/@x**

type	xsd:decimal
properties	isRef 0 use required
source	<pre><xsd:attribute name="x" type="xsd:decimal" use="required"/></pre>

attribute **project/contentHeader/coordinateInfo/ld/scaling/@y**

type	xsd:decimal
properties	isRef 0 use required
source	<pre><xsd:attribute name="y" type="xsd:decimal" use="required"/></pre>

element **project/contentHeader/coordinateInfo/sfc**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
properties	isRef	0	content	complex		
children	ppx:scaling					
source	<pre><xsd:element name="sfc"> <xsd:complexType> <xsd:sequence> <xsd:element name="scaling"> <xsd:complexType> <xsd:attribute name="x" type="xsd:decimal" use="required"/> <xsd:attribute name="y" type="xsd:decimal" use="required"/> </xsd:complexType> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element></pre>					

```

</xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>

```

element project/contentHeader/coordinateInfo/sfc/scaling

diagram							
namespace	http://www.plcopen.org/xml/tc6_0201						
properties	isRef	0					
	content	complex					
attributes	Name	Type	Use	Default	Fixed	annotation	
	x	xsd:decimal	required				
	y	xsd:decimal	required				
source	<pre> <xsd:element name="scaling"> <xsd:complexType> <xsd:attribute name="x" type="xsd:decimal" use="required"/> <xsd:attribute name="y" type="xsd:decimal" use="required"/> </xsd:complexType> </xsd:element> </pre>						

attribute project/contentHeader/coordinateInfo/sfc/scaling/@x

type	xsd:decimal
properties	isRef 0 use required
source	<xsd:attribute name="x" type="xsd:decimal" use="required"/>

attribute project/contentHeader/coordinateInfo/sfc/scaling/@y

type	xsd:decimal
properties	isRef 0 use required
source	<xsd:attribute name="y" type="xsd:decimal" use="required"/>

element project/contentHeader/addDataInfo



namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addDataInfo
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:info
source	<code><xsd:element name="addDataInfo" type="ppx:addDataInfo" minOccurs="0"/></code>

element `project/contentHeader/addData`

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<code><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></code>

element `project/types`

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0 content complex
children	ppx:dataTypes ppx:pous
source	<pre> <xsd:element name="types"> <xsd:complexType> <xsd:sequence> <xsd:element name="dataTypes"> <xsd:complexType> <xsd:sequence> <xsd:element name="dataType" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:sequence> <xsd:element name="baseType" type="ppx:dataType"/> <xsd:element name="initialValue" type="ppx:value" minOccurs="0"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"> </pre>

```

        <xsd:annotation>
        <xsd:documentation>Additional userspecific information to the
element</xsd:documentation>
        </xsd:annotation>
        </xsd:element>
        </xsd:sequence>
        <xsd:attribute name="name" type="xsd:string" use="required"/>
        </xsd:complexType>
        </xsd:element>
        </xsd:sequence>
        </xsd:complexType>
        </xsd:element>
        <xsd:element name="pous">
        <xsd:complexType>
        <xsd:sequence>
        <xsd:element name="pou" minOccurs="0" maxOccurs="unbounded">
        <xsd:complexType>
        <xsd:sequence>
        <xsd:element name="interface" minOccurs="0">
        <xsd:complexType>
        <xsd:sequence>
        <xsd:element name="returnType" type="ppx:dataType" minOccurs="0"/>
        <xsd:choice minOccurs="0" maxOccurs="unbounded">
        <xsd:element name="localVars">
        <xsd:complexType>
        <xsd:complexContent>
        <xsd:extension base="ppx:varList"/>
        </xsd:complexContent>
        </xsd:complexType>
        </xsd:element>
        <xsd:element name="tempVars">
        <xsd:complexType>
        <xsd:complexContent>
        <xsd:extension base="ppx:varList"/>
        </xsd:complexContent>
        </xsd:complexType>
        </xsd:element>
        <xsd:element name="inputVars">
        <xsd:complexType>
        <xsd:complexContent>
        <xsd:extension base="ppx:varList"/>
        </xsd:complexContent>
        </xsd:complexType>
        </xsd:element>
        <xsd:element name="outputVars">
        <xsd:complexType>
        <xsd:complexContent>
        <xsd:extension base="ppx:varList"/>
        </xsd:complexContent>
        </xsd:complexType>
        </xsd:element>
        <xsd:element name="inOutVars">
        <xsd:complexType>
        <xsd:complexContent>
        <xsd:extension base="ppx:varList"/>
        </xsd:complexContent>

```

```

        </xsd:complexType>
    </xsd:element>
    <xsd:element name="externalVars">
        <xsd:complexType>
            <xsd:complexContent>
                <xsd:extension base="ppx:varList"/>
            </xsd:complexContent>
        </xsd:complexType>
    </xsd:element>
    <xsd:element name="globalVars">
        <xsd:complexType>
            <xsd:complexContent>
                <xsd:extension base="ppx:varList"/>
            </xsd:complexContent>
        </xsd:complexType>
    </xsd:element>
    <xsd:element name="accessVars" type="ppx:varList"/>
</xsd:choice>
<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
    <xsd:annotation>
        <xsd:documentation>Additional userspecific information to the
element</xsd:documentation>
    </xsd:annotation>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="actions" minOccurs="0">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="action" minOccurs="0" maxOccurs="unbounded">
                <xsd:complexType>
                    <xsd:sequence>
                        <xsd:element name="body" type="ppx:body"/>
                        <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
                        <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
                            <xsd:annotation>
                                <xsd:documentation>Additional userspecific information to the
element</xsd:documentation>
                            </xsd:annotation>
                        </xsd:element>
                    </xsd:sequence>
                    <xsd:attribute name="name" type="xsd:string" use="required"/>
                    <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
                </xsd:complexType>
            </xsd:element>
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="transitions" minOccurs="0">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="transition" minOccurs="0" maxOccurs="unbounded">
                <xsd:complexType>
                    <xsd:sequence>

```

	<pre> <xsd:element name="body" type="ppx:body"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"> <xsd:annotation> <xsd:documentation>Additional userspecific information to the element</xsd:documentation> </xsd:annotation> </xsd:element> </xsd:sequence> <xsd:attribute name="name" type="xsd:string" use="required"/> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element> <xsd:element name="body" type="ppx:body" minOccurs="0" maxOccurs="unbounded"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"> <xsd:annotation> <xsd:documentation>Additional userspecific information to the element</xsd:documentation> </xsd:annotation> </xsd:element> </xsd:sequence> <xsd:attribute name="name" type="xsd:string" use="required"/> <xsd:attribute name="pouType" type="ppx:pouType" use="required"/> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element> </pre>
--	--

element **project/types/dataTypes**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0 content complex
children	ppx:dataType
source	<pre> <xsd:element name="dataTypes"> <xsd:complexType> <xsd:sequence> <xsd:element name="dataType" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:sequence> </pre>

```

<xsd:element name="baseType" type="ppx:dataType"/>
<xsd:element name="initialValue" type="ppx:value" minOccurs="0"/>
<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
  <xsd:annotation>
    <xsd:documentation>Additional userspecific information to the
element</xsd:documentation>
  </xsd:annotation>
</xsd:element>
</xsd:sequence>
<xsd:attribute name="name" type="xsd:string" use="required"/>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>

```

element **project/types/dataTypes/dataType**

diagram								
namespace	http://www.plcopen.org/xml/tc6_0201							
properties	isRef	0	minOcc	0	maxOcc	unbounded	content	complex
children	ppx:baseType ppx:initialValue ppx:addData ppx:documentation							
attributes	Name	Type	Use	Default	Fixed	annotation		
	name	xsd:string	required					
source	<pre> <xsd:element name="dataType" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:sequence> <xsd:element name="baseType" type="ppx:dataType"/> <xsd:element name="initialValue" type="ppx:value" minOccurs="0"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"> <xsd:annotation> <xsd:documentation>Additional userspecific information to the element</xsd:documentation> </xsd:annotation> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element> </pre>							

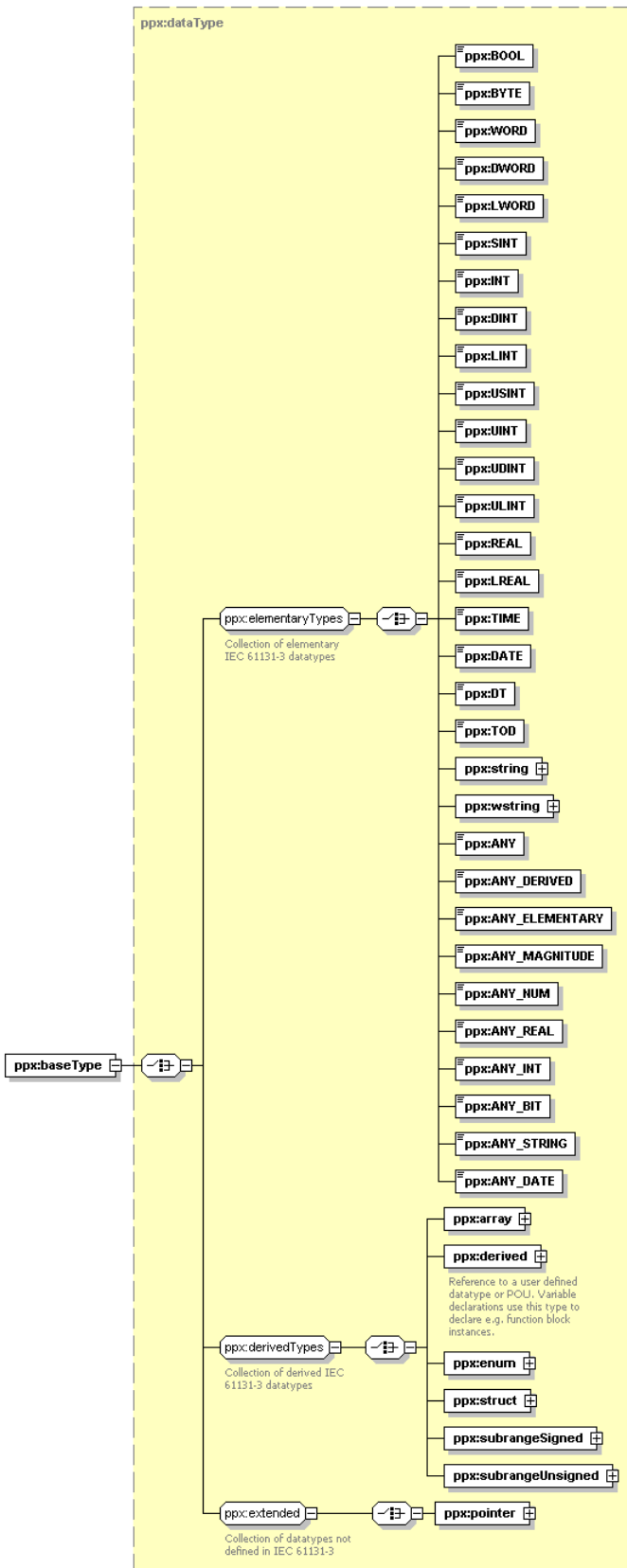
	<pre><xsd:attribute name="name" type="xsd:string" use="required"/> </xsd:complexType> </xsd:element></pre>
--	--

attribute **project/types/dataTypes/dataType/@name**

type	xsd:string
properties	isRef 0 use required
source	<pre><xsd:attribute name="name" type="xsd:string" use="required"/></pre>

element **project/types/dataTypes/dataType/baseType**

diagram



namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:dataType
properties	isRef 0 content complex
children	ppx:BOOL ppx:BYTE ppx:WORD ppx:DWORD ppx:LWORD ppx:SINT ppx:INT ppx:DINT ppx:LINT ppx:USINT ppx:UINT ppx:UDINT ppx:ULINT ppx:REAL ppx:LREAL ppx:TIME ppx:DATE ppx:DT ppx:TOD ppx:string ppx:wstring ppx:ANY ppx:ANY_DERIVED ppx:ANY_ELEMENTARY ppx:ANY_MAGNITUDE ppx:ANY_NUM ppx:ANY_REAL ppx:ANY_INT ppx:ANY_BIT ppx:ANY_STRING ppx:ANY_DATE ppx:array ppx:derived ppx:enum ppx:struct ppx:subrangeSigned ppx:subrangeUnsigned ppx:pointer
source	<xsd:element name="baseType" type="ppx:dataType"/>

element `project/types/dataTypes/dataType/initialValue`

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:value
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:simpleValue ppx:arrayValue ppx:structValue
source	<xsd:element name="initialValue" type="ppx:value" minOccurs="0"/>

element `project/types/dataTypes/dataType/addData`

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>

element **project/types/dataTypes/dataType/documentation**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
annotation	documentation Additional userspecific information to the element
source	<pre> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"> <xsd:annotation> <xsd:documentation>Additional userspecific information to the element</xsd:documentation> </xsd:annotation> </xsd:element> </pre>

element **project/types/pous**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0 content complex
children	ppx:pou
source	<pre> <xsd:element name="pous"> <xsd:complexType> <xsd:sequence> <xsd:element name="pou" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:sequence> <xsd:element name="interface" minOccurs="0"> <xsd:complexType> <xsd:sequence> <xsd:element name="returnType" type="ppx:dataType" minOccurs="0"/> <xsd:choice minOccurs="0" maxOccurs="unbounded"> <xsd:element name="localVars"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:varList"/> </xsd:complexContent> </xsd:complexType> </xsd:element> <xsd:element name="tempVars"> <xsd:complexType> <xsd:complexContent> </pre>

```

        <xsd:extension base="ppx:varList"/>
    </xsd:complexContent>
</xsd:complexType>
</xsd:element>
<xsd:element name="inputVars">
    <xsd:complexType>
        <xsd:complexContent>
            <xsd:extension base="ppx:varList"/>
        </xsd:complexContent>
    </xsd:complexType>
</xsd:element>
<xsd:element name="outputVars">
    <xsd:complexType>
        <xsd:complexContent>
            <xsd:extension base="ppx:varList"/>
        </xsd:complexContent>
    </xsd:complexType>
</xsd:element>
<xsd:element name="inOutVars">
    <xsd:complexType>
        <xsd:complexContent>
            <xsd:extension base="ppx:varList"/>
        </xsd:complexContent>
    </xsd:complexType>
</xsd:element>
<xsd:element name="externalVars">
    <xsd:complexType>
        <xsd:complexContent>
            <xsd:extension base="ppx:varList"/>
        </xsd:complexContent>
    </xsd:complexType>
</xsd:element>
<xsd:element name="globalVars">
    <xsd:complexType>
        <xsd:complexContent>
            <xsd:extension base="ppx:varList"/>
        </xsd:complexContent>
    </xsd:complexType>
</xsd:element>
<xsd:element name="accessVars" type="ppx:varList"/>
</xsd:choice>
<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
    <xsd:annotation>
        <xsd:documentation>Additional userspecific information to the
element</xsd:documentation>
    </xsd:annotation>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="actions" minOccurs="0">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="action" minOccurs="0" maxOccurs="unbounded">
                <xsd:complexType>

```

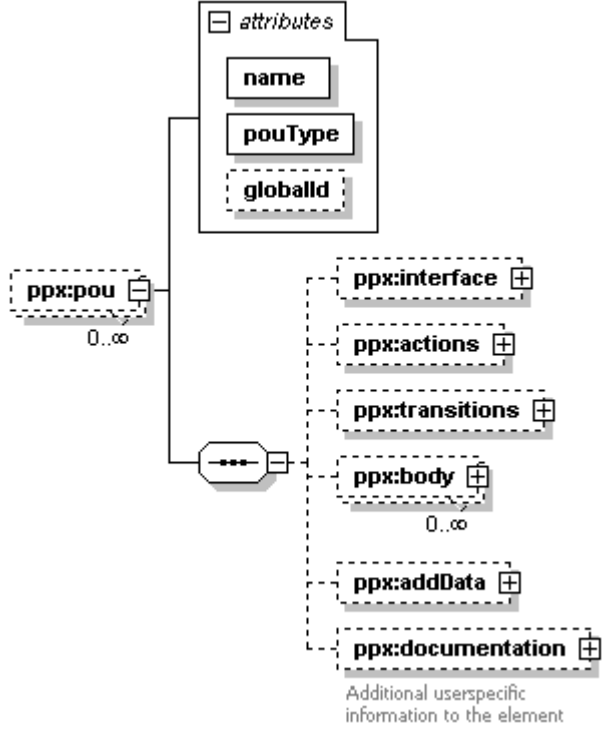
```

        <xsd:sequence>
          <xsd:element name="body" type="ppx:body"/>
          <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
          <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
            <xsd:annotation>
              <xsd:documentation>Additional userspecific information to the
element</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
        </xsd:sequence>
        <xsd:attribute name="name" type="xsd:string" use="required"/>
        <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
      </xsd:complexType>
    </xsd:element>
  </xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="transitions" minOccurs="0">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="transition" minOccurs="0" maxOccurs="unbounded">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="body" type="ppx:body"/>
            <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
            <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
              <xsd:annotation>
                <xsd:documentation>Additional userspecific information to the
element</xsd:documentation>
              </xsd:annotation>
            </xsd:element>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="body" type="ppx:body" minOccurs="0" maxOccurs="unbounded"/>
<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
  <xsd:annotation>
    <xsd:documentation>Additional userspecific information to the
element</xsd:documentation>
  </xsd:annotation>
</xsd:element>
</xsd:sequence>
<xsd:attribute name="name" type="xsd:string" use="required"/>
<xsd:attribute name="pouType" type="ppx:pouType" use="required"/>
<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>

```

</xsd:element>

element `project/types/pous/pou`

diagram	 <p>Additional userspecific information to the element</p>																							
namespace	http://www.plcopen.org/xml/tc6_0201																							
properties	isRef 0 minOcc 0 maxOcc unbounded content complex																							
children	ppx:interface ppx:actions ppx:transitions ppx:body ppx:addData ppx:documentation																							
attributes	Name	Type	Use	Default	Fixed	annotation	name	xsd:string	required				pouType	ppx:pouType	required				globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation																			
name	xsd:string	required																						
pouType	ppx:pouType	required																						
globalId	xsd:ID	optional																						
source	<pre><xsd:element name="pou" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:sequence> <xsd:element name="interface" minOccurs="0"> <xsd:complexType> <xsd:sequence> <xsd:element name="returnType" type="ppx:dataType" minOccurs="0"/> <xsd:choice minOccurs="0" maxOccurs="unbounded"> <xsd:element name="localVars"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:varList"/> </xsd:complexContent> </xsd:complexType> </xsd:element> </xsd:choice> </xsd:sequence> </xsd:complexType> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element></pre>																							

```

<xsd:element name="tempVars">
  <xsd:complexType>
    <xsd:complexContent>
      <xsd:extension base="ppx:varList"/>
    </xsd:complexContent>
  </xsd:complexType>
</xsd:element>
<xsd:element name="inputVars">
  <xsd:complexType>
    <xsd:complexContent>
      <xsd:extension base="ppx:varList"/>
    </xsd:complexContent>
  </xsd:complexType>
</xsd:element>
<xsd:element name="outputVars">
  <xsd:complexType>
    <xsd:complexContent>
      <xsd:extension base="ppx:varList"/>
    </xsd:complexContent>
  </xsd:complexType>
</xsd:element>
<xsd:element name="inOutVars">
  <xsd:complexType>
    <xsd:complexContent>
      <xsd:extension base="ppx:varList"/>
    </xsd:complexContent>
  </xsd:complexType>
</xsd:element>
<xsd:element name="externalVars">
  <xsd:complexType>
    <xsd:complexContent>
      <xsd:extension base="ppx:varList"/>
    </xsd:complexContent>
  </xsd:complexType>
</xsd:element>
<xsd:element name="globalVars">
  <xsd:complexType>
    <xsd:complexContent>
      <xsd:extension base="ppx:varList"/>
    </xsd:complexContent>
  </xsd:complexType>
</xsd:element>
<xsd:element name="accessVars" type="ppx:varList"/>
</xsd:choice>
<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
  <xsd:annotation>
    <xsd:documentation>Additional userspecific information to the
element</xsd:documentation>
  </xsd:annotation>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="actions" minOccurs="0">
  <xsd:complexType>

```

```

<xsd:sequence>
  <xsd:element name="action" minOccurs="0" maxOccurs="unbounded">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="body" type="ppx:body"/>
        <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
        <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
          <xsd:annotation>
            <xsd:documentation>Additional userspecific information to the
element</xsd:documentation>
          </xsd:annotation>
        </xsd:element>
      </xsd:sequence>
      <xsd:attribute name="name" type="xsd:string" use="required"/>
      <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
    </xsd:complexType>
  </xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="transitions" minOccurs="0">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="transition" minOccurs="0" maxOccurs="unbounded">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="body" type="ppx:body"/>
            <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
            <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
              <xsd:annotation>
                <xsd:documentation>Additional userspecific information to the
element</xsd:documentation>
              </xsd:annotation>
            </xsd:element>
          </xsd:sequence>
          <xsd:attribute name="name" type="xsd:string" use="required"/>
          <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
        </xsd:complexType>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="body" type="ppx:body" minOccurs="0" maxOccurs="unbounded"/>
<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
  <xsd:annotation>
    <xsd:documentation>Additional userspecific information to the element</xsd:documentation>
  </xsd:annotation>
</xsd:element>
</xsd:sequence>
<xsd:attribute name="name" type="xsd:string" use="required"/>
<xsd:attribute name="pouType" type="ppx:pouType" use="required"/>
<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>
</xsd:element>

```


attribute **project/types/pous/pou/@name**

type	xsd:string
properties	isRef 0 use required
source	<code><xsd:attribute name="name" type="xsd:string" use="required"/></code>

attribute **project/types/pous/pou/@pouType**

type	ppx:pouType
properties	isRef 0 use required
facets	enumeration function enumeration functionBlock enumeration program
source	<code><xsd:attribute name="pouType" type="ppx:pouType" use="required"/></code>

attribute **project/types/pous/pou/@globalId**

type	xsd:ID
properties	isRef 0 use optional
source	<code><xsd:attribute name="globalId" type="xsd:ID" use="optional"/></code>

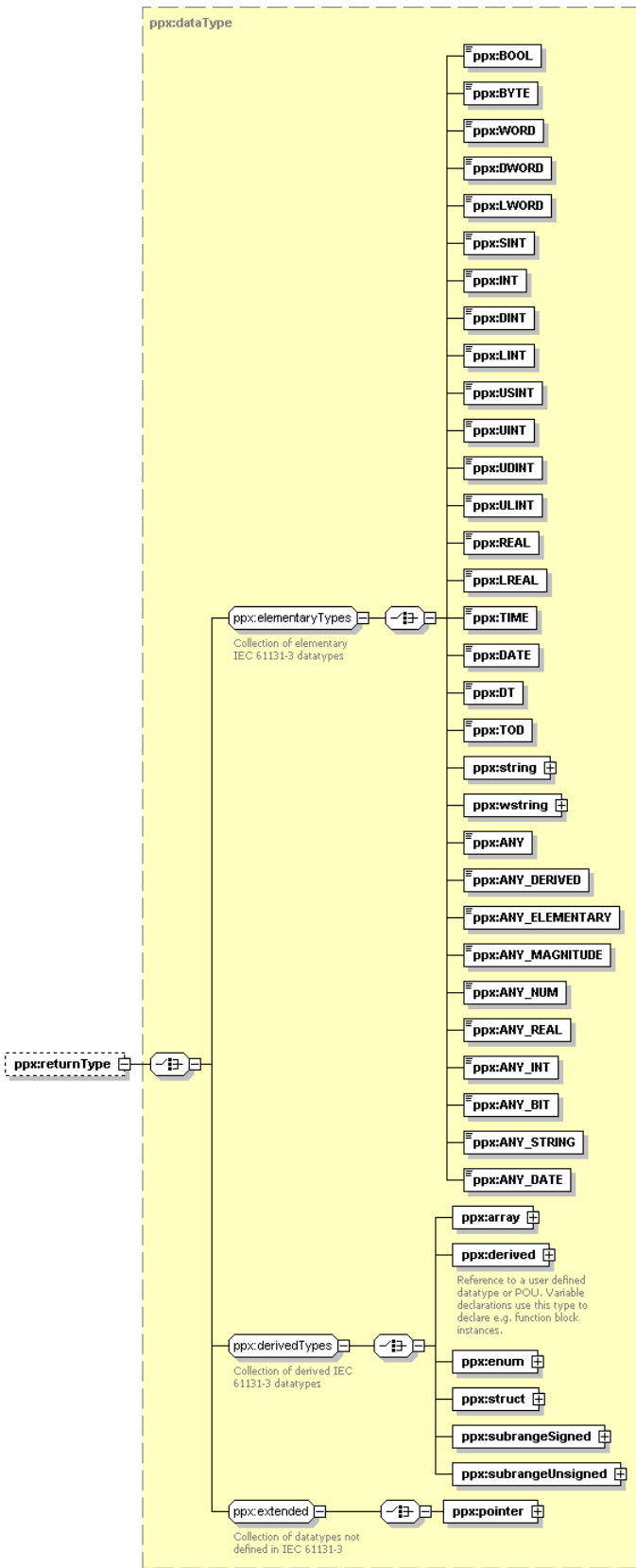
element **project/types/pous/pou/interface**

<p>diagram</p>	
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>
<p>properties</p>	<p>isRef 0 minOcc 0 maxOcc 1 content complex</p>
<p>children</p>	<p>ppx:returnType ppx:localVars ppx:tempVars ppx:inputVars ppx:outputVars ppx:inOutVars ppx:externalVars ppx:globalVars ppx:accessVars ppx:addData ppx:documentation</p>
<p>source</p>	<pre><xsd:element name="interface" minOccurs="0"> <xsd:complexType> <xsd:sequence> <xsd:element name="returnType" type="ppx:dataType" minOccurs="0"/> <xsd:choice minOccurs="0" maxOccurs="unbounded"> <xsd:element name="localVars"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:varList"/> </xsd:complexContent> </xsd:complexType> </xsd:element> <xsd:element name="tempVars"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:varList"/> </xsd:complexContent> </xsd:complexType> </xsd:element> <xsd:element name="inputVars"> <xsd:complexType></pre>

```
<xsd:complexContent>
  <xsd:extension base="ppx:varList"/>
</xsd:complexContent>
</xsd:complexType>
</xsd:element>
<xsd:element name="outputVars">
  <xsd:complexType>
    <xsd:complexContent>
      <xsd:extension base="ppx:varList"/>
    </xsd:complexContent>
  </xsd:complexType>
</xsd:element>
<xsd:element name="inOutVars">
  <xsd:complexType>
    <xsd:complexContent>
      <xsd:extension base="ppx:varList"/>
    </xsd:complexContent>
  </xsd:complexType>
</xsd:element>
<xsd:element name="externalVars">
  <xsd:complexType>
    <xsd:complexContent>
      <xsd:extension base="ppx:varList"/>
    </xsd:complexContent>
  </xsd:complexType>
</xsd:element>
<xsd:element name="globalVars">
  <xsd:complexType>
    <xsd:complexContent>
      <xsd:extension base="ppx:varList"/>
    </xsd:complexContent>
  </xsd:complexType>
</xsd:element>
<xsd:element name="accessVars" type="ppx:varList"/>
</xsd:choice>
<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
  <xsd:annotation>
    <xsd:documentation>Additional userspecific information to the element</xsd:documentation>
  </xsd:annotation>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
```

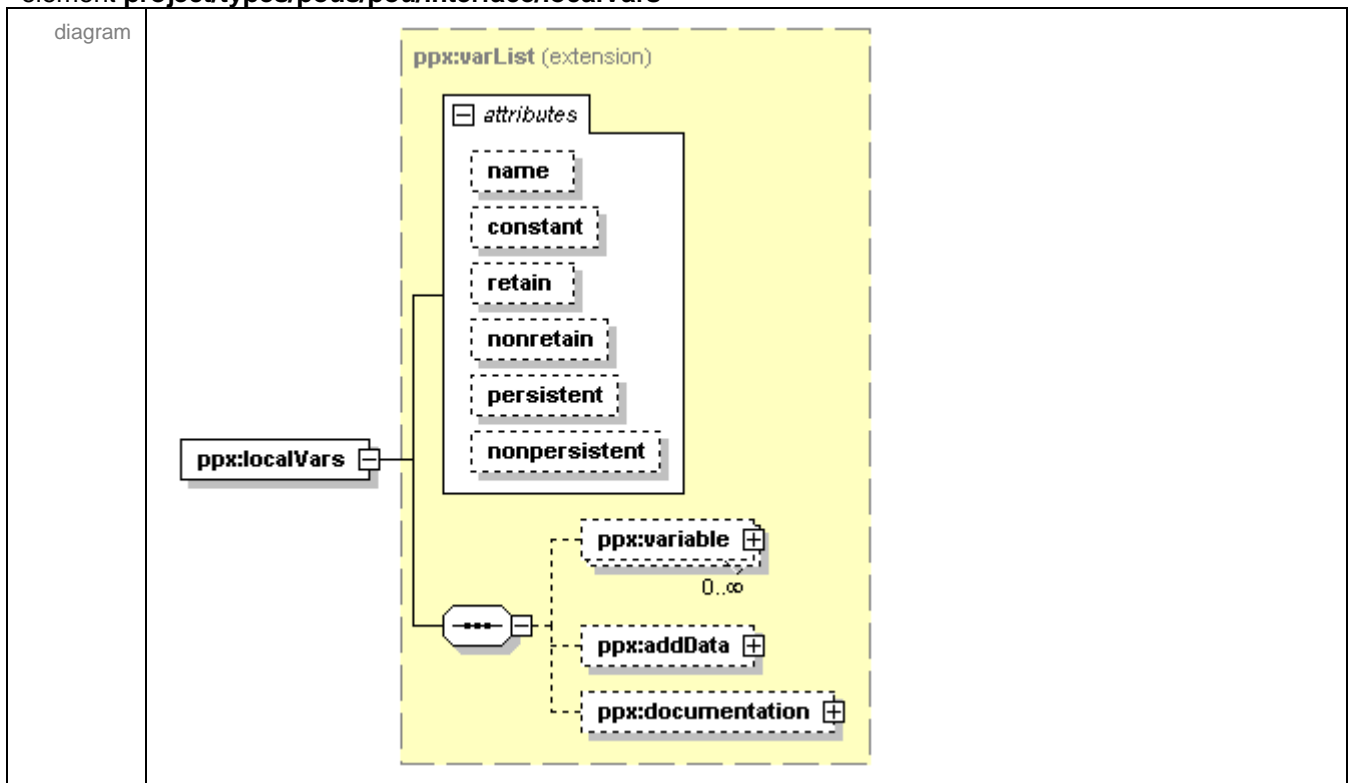
element project/types/pous/pou/interface/returnType

diagram



namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:dataType
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:BOOL ppx:BYTE ppx:WORD ppx:DWORD ppx:LWORD ppx:SINT ppx:INT ppx:DINT ppx:LINT ppx:USINT ppx:UINT ppx:UDINT ppx:ULINT ppx:REAL ppx:LREAL ppx:TIME ppx:DATE ppx:DT ppx:TOD ppx:string ppx:wstring ppx:ANY ppx:ANY DERIVED ppx:ANY ELEMENTARY ppx:ANY MAGNITUDE ppx:ANY NUM ppx:ANY REAL ppx:ANY INT ppx:ANY BIT ppx:ANY STRING ppx:ANY DATE ppx:array ppx:derived ppx:enum ppx:struct ppx:subrangeSigned ppx:subrangeUnsigned ppx:pointer
source	<xsd:element name="returnType" type="ppx:dataType" minOccurs="0"/>

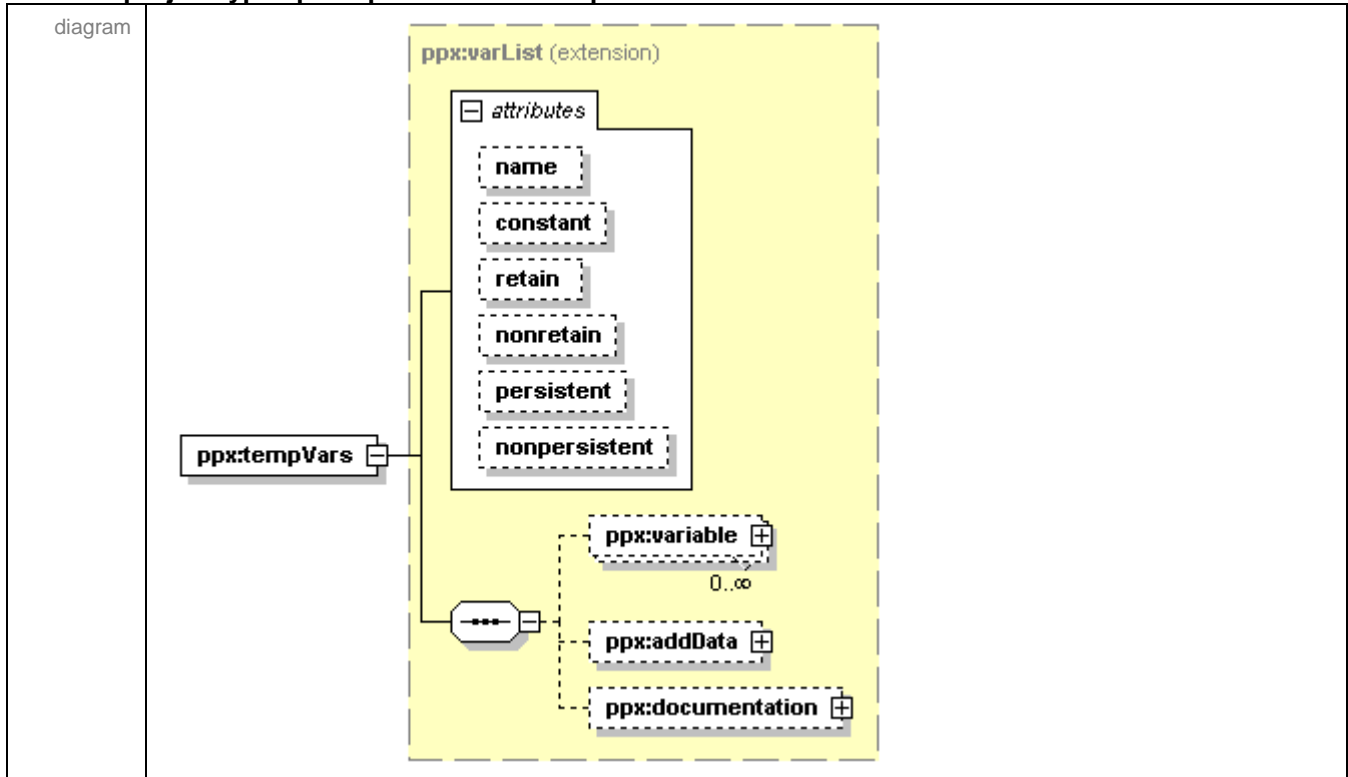
element **project/types/pous/pou/interface/localVars**



namespace	http://www.plcopen.org/xml/tc6_0201					
type	extension of ppx:varList					
properties	isRef 0	content complex				
children	ppx:variable ppx:addData ppx:documentation					
attributes	Name	Type	Use	Default	Fixed	annotation
	name	xsd:string	optional			
	constant	xsd:boolean	optional	false		
	retain	xsd:boolean	optional	false		
	nonretain	xsd:boolean	optional	false		
	persistent	xsd:boolean	optional	false		
	nonpersistent	xsd:boolean	optional	false		

source	<pre> <xsd:element name="localVars"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:varList"/> </xsd:complexContent> </xsd:complexType> </xsd:element> </pre>
--------	--

element **project/types/pous/pou/interface/tempVars**



namespace	http://www.plcopen.org/xml/tc6_0201
-----------	-------------------------------------

type	extension of ppx:varList
------	--

properties	isRef 0 content complex
------------	----------------------------

children	ppx:variable ppx:addData ppx:documentation
----------	--

attributes	Name	Type	Use	Default	Fixed	annotation
	name	xsd:string	optional			
	constant	xsd:boolean	optional	false		
	retain	xsd:boolean	optional	false		
	nonretain	xsd:boolean	optional	false		
	persistent	xsd:boolean	optional	false		
	nonpersistent	xsd:boolean	optional	false		

source	<pre> <xsd:element name="tempVars"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:varList"/> </xsd:complexContent> </xsd:complexType> </xsd:element> </pre>
--------	---

```

</xsd:complexType>
</xsd:element>

```

element **project/types/pous/pou/interface/inputVars**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	extension of ppx:varList					
properties	isRef	0				
	content	complex				
children	ppx:variable ppx:addData ppx:documentation					
attributes	Name	Type	Use	Default	Fixed	annotation
	name	xsd:string	optional			
	constant	xsd:boolean	optional	false		
	retain	xsd:boolean	optional	false		
	nonretain	xsd:boolean	optional	false		
	persistent	xsd:boolean	optional	false		
	nonpersistent	xsd:boolean	optional	false		
source	<pre> <xsd:element name="inputVars"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:varList"/> </xsd:complexContent> </xsd:complexType> </xsd:element> </pre>					

element **project/types/pous/pou/interface/outputVars**

<p>diagram</p>																																											
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>																																										
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<p>source</p>	<pre><xsd:element name="outputVars"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:varList"/> </xsd:complexContent> </xsd:complexType> </xsd:element></pre>																																										

element **project/types/pous/pou/interface/inOutVars**

<p>diagram</p>	<p>The diagram illustrates the structure of the <code>ppx:inOutVars</code> element. It is an extension of the <code>ppx:varList</code> base type. The <code>ppx:inOutVars</code> element contains an <code>attributes</code> container with the following attributes: <code>name</code>, <code>constant</code>, <code>retain</code>, <code>nonretain</code>, <code>persistent</code>, and <code>nonpersistent</code>. Additionally, it contains a sequence of three child elements: <code>ppx:variable</code> (occurring 0 to infinity times), <code>ppx:addData</code>, and <code>ppx:documentation</code>.</p>																																										
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>																																										
<p>type</p>	<p>extension of ppx:varList</p>																																										
<p>properties</p>	<p>isRef 0 content complex</p>																																										
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persistent	<code>xsd:boolean</code>	optional	false																																								
nonpersistent	<code>xsd:boolean</code>	optional	false																																								
<p>source</p>	<pre><xsd:element name="inOutVars"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:varList"/> </xsd:complexContent> </xsd:complexType> </xsd:element></pre>																																										

element **project/types/pous/pou/interface/externalVars**

<p>diagram</p>																																											
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>																																										
<p>type</p>	<p>extension of ppx:varList</p>																																										
<p>properties</p>	<p>isRef 0 content complex</p>																																										
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<p>source</p>	<pre><xsd:element name="externalVars"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:varList"/> </xsd:complexContent> </xsd:complexType> </xsd:element></pre>																																										

element **project/types/pous/pou/interface/globalVars**

<p>diagram</p>																																											
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>																																										
<p>type</p>	<p>extension of ppx:varList</p>																																										
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<p>source</p>	<pre><xsd:element name="globalVars"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:varList"/> </xsd:complexContent> </xsd:complexType> </xsd:element></pre>																																										

element **project/types/pous/pou/interface/accessVars**

diagram							
namespace	http://www.plcopen.org/xml/tc6_0201						
type	ppx:varList						
properties	isRef	0					
	content	complex					
children	ppx:variable ppx:addData ppx:documentation						
attributes	Name	Type	Use	Default	Fixed	annotation	
	name	xsd:string	optional				
	constant	xsd:boolean	optional	false			
	retain	xsd:boolean	optional	false			
	nonretain	xsd:boolean	optional	false			
	persistent	xsd:boolean	optional	false			
	nonpersistent	xsd:boolean	optional	false			
source	<code><xsd:element name="accessVars" type="ppx:varList"/></code>						

element **project/types/pous/pou/interface/addData**

diagram							
namespace	http://www.plcopen.org/xml/tc6_0201						
type	ppx:addData						

properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<code><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></code>

element `project/types/pous/pou/interface/documentation`

diagram	
namespace	<code>http://www.plcopen.org/xml/tc6_0201</code>
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
annotation	documentation Additional userspecific information to the element
source	<pre> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"> <xsd:annotation> <xsd:documentation>Additional userspecific information to the element</xsd:documentation> </xsd:annotation> </xsd:element> </pre>

element `project/types/pous/pou/actions`

diagram	
namespace	<code>http://www.plcopen.org/xml/tc6_0201</code>
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:action
source	<pre> <xsd:element name="actions" minOccurs="0"> <xsd:complexType> <xsd:sequence> <xsd:element name="action" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:sequence> <xsd:element name="body" type="ppx:body"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"> <xsd:annotation> <xsd:documentation>Additional userspecific information to the element</xsd:documentation> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element> </pre>

```

</xsd:annotation>
</xsd:element>
</xsd:sequence>
<xsd:attribute name="name" type="xsd:string" use="required"/>
<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>

```

element **project/types/pous/pou/actions/action**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
properties	isRef	0				
	minOcc	0				
	maxOcc	unbounded				
	content	complex				
children	ppx:body ppx:addData ppx:documentation					
attributes	Name	Type	Use	Default	Fixed	annotation
	name	xsd:string	required			
	globalId	xsd:ID	optional			
source	<pre> <xsd:element name="action" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:sequence> <xsd:element name="body" type="ppx:body"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"> <xsd:annotation> <xsd:documentation>Additional userspecific information to the element</xsd:documentation> </xsd:annotation> </xsd:element> </xsd:sequence> <xsd:attribute name="name" type="xsd:string" use="required"/> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </pre>					

attribute **project/types/pous/pou/actions/action/@name**

type	xsd:string
properties	isRef 0 use required
source	<code><xsd:attribute name="name" type="xsd:string" use="required"/></code>

attribute **project/types/pous/pou/actions/action/@globalId**

type	xsd:ID
properties	isRef 0 use optional
source	<code><xsd:attribute name="globalId" type="xsd:ID" use="optional"/></code>

element **project/types/pous/pou/actions/action/body**

diagram							
namespace	http://www.plcopen.org/xml/tc6_0201						
type	ppx:body						
properties	isRef 0 content complex						
children	ppx:IL ppx:ST ppx:FBD ppx:LD ppx:SFC ppx:addData ppx:documentation						
attributes	Name	Type	Use	Default	Fixed	annotation	
	WorksheetName	xsd:string	optional				
	globalId	xsd:ID	optional				

source	<xsd:element name="body" type="ppx:body"/>
--------	--

element **project/types/pous/pou/actions/action/addData**

diagram									
namespace	http://www.plcopen.org/xml/tc6_0201								
type	ppx:addData								
properties	<table border="0"> <tr><td>isRef</td><td>0</td></tr> <tr><td>minOcc</td><td>0</td></tr> <tr><td>maxOcc</td><td>1</td></tr> <tr><td>content</td><td>complex</td></tr> </table>	isRef	0	minOcc	0	maxOcc	1	content	complex
isRef	0								
minOcc	0								
maxOcc	1								
content	complex								
children	ppx:data								
source	<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>								

element **project/types/pous/pou/actions/action/documentation**

diagram									
namespace	http://www.plcopen.org/xml/tc6_0201								
type	ppx:formattedText								
properties	<table border="0"> <tr><td>isRef</td><td>0</td></tr> <tr><td>minOcc</td><td>0</td></tr> <tr><td>maxOcc</td><td>1</td></tr> <tr><td>content</td><td>complex</td></tr> </table>	isRef	0	minOcc	0	maxOcc	1	content	complex
isRef	0								
minOcc	0								
maxOcc	1								
content	complex								
annotation	<p>documentation Additional userspecific information to the element</p>								
source	<pre><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"> <xsd:annotation> <xsd:documentation>Additional userspecific information to the element</xsd:documentation> </xsd:annotation> </xsd:element></pre>								

element **project/types/pous/pou/transitions**

diagram					
namespace	http://www.plcopen.org/xml/tc6_0201				
properties	<table border="0"> <tr><td>isRef</td><td>0</td></tr> <tr><td>minOcc</td><td>0</td></tr> </table>	isRef	0	minOcc	0
isRef	0				
minOcc	0				

	maxOcc 1 content complex
children	ppx:transition
source	<pre> <xsd:element name="transitions" minOccurs="0"> <xsd:complexType> <xsd:sequence> <xsd:element name="transition" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:sequence> <xsd:element name="body" type="ppx:body"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"> <xsd:annotation> <xsd:documentation>Additional userspecific information to the element</xsd:documentation> </xsd:annotation> </xsd:element> </xsd:sequence> <xsd:attribute name="name" type="xsd:string" use="required"/> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element> </pre>

element **project/types/pous/pou/transitions/transition**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
properties	isRef	0				
	minOcc	0				
	maxOcc	unbounded				
	content	complex				
children	ppx:body ppx:addData ppx:documentation					
attributes	Name	Type	Use	Default	Fixed	annotation
	name	xsd:string	required			
	globalId	xsd:ID	optional			
source	<xsd:element name="transition" minOccurs="0" maxOccurs="unbounded">					

	<pre> <xsd:complexType> <xsd:sequence> <xsd:element name="body" type="ppx:body"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"> <xsd:annotation> <xsd:documentation>Additional userspecific information to the element</xsd:documentation> </xsd:annotation> </xsd:element> </xsd:sequence> <xsd:attribute name="name" type="xsd:string" use="required"/> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </pre>
--	---

attribute project/types/pous/pou/transitions/transition/@name

type	xsd:string
properties	isRef 0 use required
source	<xsd:attribute name="name" type="xsd:string" use="required"/>

attribute project/types/pous/pou/transitions/transition/@globalId

type	xsd:ID
properties	isRef 0 use optional
source	<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>

element **project/types/pous/pou/transitions/transition/body**

diagram																			
namespace	http://www.plcopen.org/xml/tc6_0201																		
type	ppx:body																		
properties	isRef 0 content complex																		
children	ppx:IL ppx:ST ppx:FBD ppx:LD ppx:SFC ppx:addData ppx:documentation																		
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>WorksheetName</td> <td>xsd:string</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	WorksheetName	xsd:string	optional				globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation														
WorksheetName	xsd:string	optional																	
globalId	xsd:ID	optional																	
source	<xsd:element name="body" type="ppx:body"/>																		

element **project/types/pous/pou/transitions/transition/addData**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	isRef 0 minOcc 0 maxOcc 1 content complex

children	ppx:data
source	<code><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></code>

element **project/types/pous/pou/transitions/transition/documentation**

diagram									
namespace	<code>http://www.plcopen.org/xml/tc6_0201</code>								
type	ppx:formattedText								
properties	<table border="0"> <tr><td>isRef</td><td>0</td></tr> <tr><td>minOcc</td><td>0</td></tr> <tr><td>maxOcc</td><td>1</td></tr> <tr><td>content</td><td>complex</td></tr> </table>	isRef	0	minOcc	0	maxOcc	1	content	complex
isRef	0								
minOcc	0								
maxOcc	1								
content	complex								
annotation	<p>documentation Additional userspecific information to the element</p>								
source	<pre> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"> <xsd:annotation> <xsd:documentation>Additional userspecific information to the element</xsd:documentation> </xsd:annotation> </xsd:element> </pre>								

element **project/types/pous/pou/body**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:body					
properties	isRef	0	minOcc	0	maxOcc	unbounded
	content	complex				
children	ppx:IL ppx:ST ppx:FBD ppx:LD ppx:SFC ppx:addData ppx:documentation					
attributes	Name	Type	Use	Default	Fixed	annotation
	WorksheetName	xsd:string	optional			
	globalId	xsd:ID	optional			
source	<xsd:element name="body" type="ppx:body" minOccurs="0" maxOccurs="unbounded"/>					

element **project/types/pous/pou/addData**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:addData					
properties	isRef	0	minOcc	0	maxOcc	unbounded

	maxOcc 1 content complex
children	ppx:data
source	<code><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></code>

element `project/types/pous/pou/documentation`

diagram	
namespace	<code>http://www.plcopen.org/xml/tc6_0201</code>
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
annotation	documentation Additional userspecific information to the element
source	<pre> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"> <xsd:annotation> <xsd:documentation>Additional userspecific information to the element</xsd:documentation> </xsd:annotation> </xsd:element> </pre>

element `project/instances`

diagram	
namespace	<code>http://www.plcopen.org/xml/tc6_0201</code>
properties	isRef 0 content complex
children	ppx:configurations
source	<pre> <xsd:element name="instances"> <xsd:complexType> <xsd:sequence> <xsd:element name="configurations"> <xsd:complexType> <xsd:sequence> <xsd:element name="configuration" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Represents a group of resources and global variables</xsd:documentation> </xsd:annotation> </xsd:complexType> </xsd:element> <xsd:element name="resource" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> </pre>

```

        <xsd:documentation>Represents a group of programs and tasks and global
variables</xsd:documentation>
        </xsd:annotation>
        <xsd:sequence>
        <xsd:element name="task" minOccurs="0" maxOccurs="unbounded">
        <xsd:complexType>
        <xsd:annotation>
        <xsd:documentation>Represents a periodic or triggered
task</xsd:documentation>
        </xsd:annotation>
        <xsd:sequence>
        <xsd:element name="pouInstance" type="ppx:pouInstance" minOccurs="0"
maxOccurs="unbounded"/>
        <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
        <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
        <xsd:annotation>
        <xsd:documentation>Additional userspecific information to the
element</xsd:documentation>
        </xsd:annotation>
        </xsd:element>
        </xsd:sequence>
        <xsd:attribute name="name" type="xsd:string" use="required"/>
        <xsd:attribute name="single" type="xsd:string" use="optional"/>
        <xsd:attribute name="interval" type="xsd:string" use="optional">
        <xsd:annotation>
        <xsd:documentation>Vendor specific: Either a constant duration as defined in
the IEC or variable name.</xsd:documentation>
        </xsd:annotation>
        </xsd:attribute>
        <xsd:attribute name="priority" use="required">
        <xsd:simpleType>
        <xsd:restriction base="xsd:integer">
        <xsd:minInclusive value="0"/>
        <xsd:maxInclusive value="65535"/>
        </xsd:restriction>
        </xsd:simpleType>
        </xsd:attribute>
        <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
        </xsd:complexType>
        </xsd:element>
        <xsd:element name="globalVars" type="ppx:varList" minOccurs="0"
maxOccurs="unbounded"/>
        <xsd:element name="pouInstance" type="ppx:pouInstance" minOccurs="0"
maxOccurs="unbounded"/>
        <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
        <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
        <xsd:annotation>
        <xsd:documentation>Additional userspecific information to the
element</xsd:documentation>
        </xsd:annotation>
        </xsd:element>
        </xsd:sequence>
        <xsd:attribute name="name" type="xsd:string" use="required"/>
        <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
        </xsd:complexType>
        </xsd:element>

```

	<pre> <xsd:element name="globalVars" type="ppx:varList" minOccurs="0" maxOccurs="unbounded"/> <xsd:element name="accessVars" type="ppx:varListAccess" minOccurs="0"/> <xsd:element name="configVars" type="ppx:varListConfig" minOccurs="0"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"> <xsd:annotation> <xsd:documentation>Additional userspecific information to the element</xsd:documentation> </xsd:annotation> </xsd:element> </xsd:sequence> <xsd:attribute name="name" type="xsd:string" use="required"/> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element> </pre>
--	---

element **project/instances/configurations**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0 content complex
children	ppx:configuration
source	<pre> <xsd:element name="configurations"> <xsd:complexType> <xsd:sequence> <xsd:element name="configuration" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Represents a group of resources and global variables</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="resource" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Represents a group of programs and tasks and global variables</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="task" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Represents a periodic or triggered task</xsd:documentation> </xsd:annotation> </pre>


```

        </xsd:annotation>
        <xsd:sequence>
          <xsd:element name="poulInstance" type="ppx:poulInstance" minOccurs="0"
maxOccurs="unbounded"/>
          <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
          <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
            <xsd:annotation>
              <xsd:documentation>Additional userspecific information to the
element</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
        </xsd:sequence>
        <xsd:attribute name="name" type="xsd:string" use="required"/>
        <xsd:attribute name="single" type="xsd:string" use="optional"/>
        <xsd:attribute name="interval" type="xsd:string" use="optional">
          <xsd:annotation>
            <xsd:documentation>Vendor specific: Either a constant duration as defined in the
IEC or variable name.</xsd:documentation>
          </xsd:annotation>
        </xsd:attribute>
        <xsd:attribute name="priority" use="required">
          <xsd:simpleType>
            <xsd:restriction base="xsd:integer">
              <xsd:minInclusive value="0"/>
              <xsd:maxInclusive value="65535"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:attribute>
        <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
      </xsd:complexType>
    </xsd:element>
    <xsd:element name="globalVars" type="ppx:varList" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="poulInstance" type="ppx:poulInstance" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
    <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
      <xsd:annotation>
        <xsd:documentation>Additional userspecific information to the
element</xsd:documentation>
      </xsd:annotation>
    </xsd:element>
  </xsd:sequence>
  <xsd:attribute name="name" type="xsd:string" use="required"/>
  <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>
</xsd:element>
<xsd:element name="globalVars" type="ppx:varList" minOccurs="0"
maxOccurs="unbounded"/>
<xsd:element name="accessVars" type="ppx:varListAccess" minOccurs="0"/>
<xsd:element name="configVars" type="ppx:varListConfig" minOccurs="0"/>
<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
  <xsd:annotation>
    <xsd:documentation>Additional userspecific information to the
element</xsd:documentation>
  </xsd:annotation>

```

```

</xsd:annotation>
</xsd:element>
</xsd:sequence>
<xsd:attribute name="name" type="xsd:string" use="required"/>
<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>

```

element **project/instances/configurations/configuration**

diagram																			
namespace	http://www.plcopen.org/xml/tc6_0201																		
properties	isRef 0 minOcc 0 maxOcc unbounded content complex																		
children	ppx:resource ppx:globalVars ppx:accessVars ppx:configVars ppx:addData ppx:documentation																		
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>name</td> <td>xsd:string</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	name	xsd:string	required				globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation														
name	xsd:string	required																	
globalId	xsd:ID	optional																	
source	<pre> <xsd:element name="configuration" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Represents a group of resources and global variables</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="resource" minOccurs="0" maxOccurs="unbounded"> </pre>																		

```

<xsd:complexType>
  <xsd:annotation>
    <xsd:documentation>Represents a group of programs and tasks and global
variables</xsd:documentation>
  </xsd:annotation>
  <xsd:sequence>
    <xsd:element name="task" minOccurs="0" maxOccurs="unbounded">
      <xsd:complexType>
        <xsd:annotation>
          <xsd:documentation>Represents a periodic or triggered task</xsd:documentation>
        </xsd:annotation>
        <xsd:sequence>
          <xsd:element name="poulInstance" type="ppx:poulInstance" minOccurs="0"
maxOccurs="unbounded"/>
          <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
          <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
            <xsd:annotation>
              <xsd:documentation>Additional userspecific information to the
element</xsd:documentation>
            </xsd:annotation>
            </xsd:element>
          </xsd:sequence>
          <xsd:attribute name="name" type="xsd:string" use="required"/>
          <xsd:attribute name="single" type="xsd:string" use="optional"/>
          <xsd:attribute name="interval" type="xsd:string" use="optional">
            <xsd:annotation>
              <xsd:documentation>Vendor specific: Either a constant duration as defined in the IEC
or variable name.</xsd:documentation>
            </xsd:annotation>
            </xsd:attribute>
          <xsd:attribute name="priority" use="required">
            <xsd:simpleType>
              <xsd:restriction base="xsd:integer">
                <xsd:minInclusive value="0"/>
                <xsd:maxInclusive value="65535"/>
              </xsd:restriction>
            </xsd:simpleType>
          </xsd:attribute>
          <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="globalVars" type="ppx:varList" minOccurs="0"
maxOccurs="unbounded"/>
      <xsd:element name="poulInstance" type="ppx:poulInstance" minOccurs="0"
maxOccurs="unbounded"/>
      <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
      <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
        <xsd:annotation>
          <xsd:documentation>Additional userspecific information to the
element</xsd:documentation>
        </xsd:annotation>
        </xsd:element>
      </xsd:sequence>
      <xsd:attribute name="name" type="xsd:string" use="required"/>
      <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
    </xsd:complexType>

```

```

</xsd:element>
<xsd:element name="globalVars" type="ppx:varList" minOccurs="0"
maxOccurs="unbounded"/>
<xsd:element name="accessVars" type="ppx:varListAccess" minOccurs="0"/>
<xsd:element name="configVars" type="ppx:varListConfig" minOccurs="0"/>
<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
  <xsd:annotation>
    <xsd:documentation>Additional userspecific information to the element</xsd:documentation>
  </xsd:annotation>
</xsd:element>
</xsd:sequence>
<xsd:attribute name="name" type="xsd:string" use="required"/>
<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>
</xsd:element>

```

attribute **project/instances/configurations/configuration/@name**

type	xsd:string
properties	isRef 0 use required
source	<xsd:attribute name="name" type="xsd:string" use="required"/>

attribute **project/instances/configurations/configuration/@globalId**

type	xsd:ID
properties	isRef 0 use optional
source	<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>

element **project/instances/configurations/configuration/resource**

<p>diagram</p>																			
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>																		
<p>properties</p>	<p>isRef 0 minOcc 0 maxOcc unbounded content complex</p>																		
<p>children</p>	<p>ppx:task ppx:globalVars ppx:pouInstance ppx:addData ppx:documentation</p>																		
<p>attributes</p>	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>name</td> <td>xsd:string</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	name	xsd:string	required				globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation														
name	xsd:string	required																	
globalId	xsd:ID	optional																	
<p>source</p>	<pre><xsd:element name="resource" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Represents a group of programs and tasks and global variables</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="task" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Represents a periodic or triggered task</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="pouInstance" type="ppx:pouInstance" minOccurs="0" maxOccurs="unbounded"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"> <xsd:annotation> <xsd:documentation>Additional userspecific information to the element</xsd:documentation> </xsd:annotation> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element></pre>																		

```

</xsd:element>
</xsd:sequence>
<xsd:attribute name="name" type="xsd:string" use="required"/>
<xsd:attribute name="single" type="xsd:string" use="optional"/>
<xsd:attribute name="interval" type="xsd:string" use="optional">
  <xsd:annotation>
    <xsd:documentation>Vendor specific: Either a constant duration as defined in the IEC or
variable name.</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="priority" use="required">
  <xsd:simpleType>
    <xsd:restriction base="xsd:integer">
      <xsd:minInclusive value="0"/>
      <xsd:maxInclusive value="65535"/>
    </xsd:restriction>
  </xsd:simpleType>
</xsd:attribute>
<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>
</xsd:element>
<xsd:element name="globalVars" type="ppx:varList" minOccurs="0"
maxOccurs="unbounded"/>
<xsd:element name="pouInstance" type="ppx:pouInstance" minOccurs="0"
maxOccurs="unbounded"/>
<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0">
  <xsd:annotation>
    <xsd:documentation>Additional userspecific information to the element</xsd:documentation>
  </xsd:annotation>
</xsd:element>
</xsd:sequence>
<xsd:attribute name="name" type="xsd:string" use="required"/>
<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>
</xsd:element>

```

attribute **project/instances/configurations/configuration/resource/@name**

type	xsd:string
properties	isRef 0 use required
source	<xsd:attribute name="name" type="xsd:string" use="required"/>

attribute **project/instances/configurations/configuration/resource/@globalId**

type	xsd:ID
properties	isRef 0 use optional
source	<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>

element **project/instances/configurations/configuration/resource/task**

diagram																																				
namespace	http://www.plcopen.org/xml/tc6_0201																																			
properties	isRef 0 minOcc 0 maxOcc unbounded content complex																																			
children	ppx:pouInstance ppx:addData ppx:documentation																																			
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>name</td> <td>xsd:string</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>single</td> <td>xsd:string</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>interval</td> <td>xsd:string</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>priority</td> <td>derived by: xsd:integer</td> <td>required</td> <td></td> <td></td> <td rowspan="3">documentation Vendor specific: Either a constant duration as defined in the IEC or variable name.</td> </tr> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	name	xsd:string	required				single	xsd:string	optional				interval	xsd:string	optional				priority	derived by: xsd:integer	required			documentation Vendor specific: Either a constant duration as defined in the IEC or variable name.	globalId	xsd:ID	optional		
Name	Type	Use	Default	Fixed	annotation																															
name	xsd:string	required																																		
single	xsd:string	optional																																		
interval	xsd:string	optional																																		
priority	derived by: xsd:integer	required			documentation Vendor specific: Either a constant duration as defined in the IEC or variable name.																															
globalId	xsd:ID	optional																																		
source	<pre> <xsd:element name="task" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Represents a periodic or triggered task</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="pouInstance" type="ppx:pouInstance" minOccurs="0" maxOccurs="unbounded"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"> <xsd:annotation> </pre>																																			

	<pre> <xsd:documentation>Additional userspecific information to the element</xsd:documentation> </xsd:annotation> </xsd:element> </xsd:sequence> <xsd:attribute name="name" type="xsd:string" use="required"/> <xsd:attribute name="single" type="xsd:string" use="optional"/> <xsd:attribute name="interval" type="xsd:string" use="optional"> <xsd:annotation> <xsd:documentation>Vendor specific: Either a constant duration as defined in the IEC or variable name.</xsd:documentation> </xsd:annotation> </xsd:attribute> <xsd:attribute name="priority" use="required"> <xsd:simpleType> <xsd:restriction base="xsd:integer"> <xsd:minInclusive value="0"/> <xsd:maxInclusive value="65535"/> </xsd:restriction> </xsd:simpleType> </xsd:attribute> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </pre>
--	--

attribute **project/instances/configurations/configuration/resource/task/@name**

type	xsd:string
properties	isRef 0 use required
source	<pre><xsd:attribute name="name" type="xsd:string" use="required"/></pre>

attribute **project/instances/configurations/configuration/resource/task/@single**

type	xsd:string
properties	isRef 0 use optional
source	<pre><xsd:attribute name="single" type="xsd:string" use="optional"/></pre>

attribute **project/instances/configurations/configuration/resource/task/@interval**

type	xsd:string
properties	isRef 0 use optional
annotation	documentation Vendor specific: Either a constant duration as defined in the IEC or variable name.
source	<pre> <xsd:attribute name="interval" type="xsd:string" use="optional"> <xsd:annotation> <xsd:documentation>Vendor specific: Either a constant duration as defined in the IEC or variable name.</xsd:documentation> </xsd:annotation> </xsd:attribute> </pre>

attribute **project/instances/configurations/configuration/resource/task/@priority**

type	restriction of xsd:integer
properties	isRef 0 use required
facets	minInclusive 0 maxInclusive 65535
source	<pre><xsd:attribute name="priority" use="required"> <xsd:simpleType> <xsd:restriction base="xsd:integer"> <xsd:minInclusive value="0"/> <xsd:maxInclusive value="65535"/> </xsd:restriction> </xsd:simpleType> </xsd:attribute></pre>

attribute **project/instances/configurations/configuration/resource/task/@globalId**

type	xsd:ID
properties	isRef 0 use optional
source	<pre><xsd:attribute name="globalId" type="xsd:ID" use="optional"/></pre>

element **project/instances/configurations/configuration/resource/task/poulInstance**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:poulInstance					
properties	isRef 0 minOcc 0 maxOcc unbounded content complex					
children	ppx:addData ppx:documentation					
attributes	Name	Type	Use	Default	Fixed	annotation
	name	xsd:string	required			
	typeName	xsd:string	required			
	globalId	xsd:ID	optional			

source	<code><xsd:element name="poulInstance" type="ppx:poulInstance" minOccurs="0" maxOccurs="unbounded"/></code>
--------	---

element **project/instances/configurations/configuration/resource/task/addData**

diagram									
namespace	<code>http://www.plcopen.org/xml/tc6_0201</code>								
type	ppx:addData								
properties	<table border="0"> <tr><td>isRef</td><td>0</td></tr> <tr><td>minOcc</td><td>0</td></tr> <tr><td>maxOcc</td><td>1</td></tr> <tr><td>content</td><td>complex</td></tr> </table>	isRef	0	minOcc	0	maxOcc	1	content	complex
isRef	0								
minOcc	0								
maxOcc	1								
content	complex								
children	ppx:data								
source	<code><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></code>								

element **project/instances/configurations/configuration/resource/task/documentation**

diagram									
namespace	<code>http://www.plcopen.org/xml/tc6_0201</code>								
type	ppx:formattedText								
properties	<table border="0"> <tr><td>isRef</td><td>0</td></tr> <tr><td>minOcc</td><td>0</td></tr> <tr><td>maxOcc</td><td>1</td></tr> <tr><td>content</td><td>complex</td></tr> </table>	isRef	0	minOcc	0	maxOcc	1	content	complex
isRef	0								
minOcc	0								
maxOcc	1								
content	complex								
annotation	<p>documentation Additional userspecific information to the element</p>								
source	<pre> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"> <xsd:annotation> <xsd:documentation>Additional userspecific information to the element</xsd:documentation> </xsd:annotation> </xsd:element> </pre>								

element **project/instances/configurations/configuration/resource/globalVars**

<p>diagram</p>	<p>The diagram illustrates the structure of the <code>ppx:globalVars</code> element. It is a container for an <code>attributes</code> block and a list of child elements. The <code>attributes</code> block includes the following attributes: <code>name</code>, <code>constant</code>, <code>retain</code>, <code>nonretain</code>, <code>persistent</code>, and <code>nonpersistent</code>. The child elements are <code>ppx:variable</code>, <code>ppx:addData</code>, and <code>ppx:documentation</code>. The <code>ppx:globalVars</code> element has a multiplicity of <code>0..∞</code>.</p>					
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>					
<p>type</p>	<p>ppx:varList</p>					
<p>properties</p>	<p>isRef 0 minOcc 0 maxOcc unbounded content complex</p>					
<p>children</p>	<p>ppx:variable ppx:addData ppx:documentation</p>					
<p>attributes</p>	<p>Name name constant retain nonretain persistent nonpersistent</p>	<p>Type xsd:string xsd:boolean xsd:boolean xsd:boolean xsd:boolean xsd:boolean</p>	<p>Use optional optional optional optional optional</p>	<p>Default false false false false false</p>	<p>Fixed </p>	<p>annotation </p>
<p>source</p>	<pre><xsd:element name="globalVars" type="ppx:varList" minOccurs="0" maxOccurs="unbounded"/></pre>					

element **project/instances/configurations/configuration/resource/poulInstance**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:poulInstance					
properties	isRef	0				
	minOcc	0				
	maxOcc	unbounded				
	content	complex				
children	ppx:addData ppx:documentation					
attributes	Name	Type	Use	Default	Fixed	annotation
	name	xsd:string	required			
	typeName	xsd:string	required			
	globalId	xsd:ID	optional			
source	<pre><xsd:element name="poulInstance" type="ppx:poulInstance" minOccurs="0" maxOccurs="unbounded"/></pre>					

element **project/instances/configurations/configuration/resource/addData**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:addData					
properties	isRef	0				
	minOcc	0				
	maxOcc	1				
	content	complex				
children	ppx:data					
source	<pre><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></pre>					

element **project/instances/configurations/configuration/resource/documentation**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
annotation	documentation Additional userspecific information to the element
source	<pre> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"> <xsd:annotation> <xsd:documentation>Additional userspecific information to the element</xsd:documentation> </xsd:annotation> </xsd:element> </pre>

element **project/instances/configurations/configuration/globalVars**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:varList
properties	isRef 0 minOcc 0 maxOcc unbounded content complex

children	ppx:variable ppx:addData ppx:documentation					
attributes	Name	Type	Use	Default	Fixed	annotation
	name	xsd:string	optional			
	constant	xsd:boolean	optional	false		
	retain	xsd:boolean	optional	false		
	nonretain	xsd:boolean	optional	false		
	persistent	xsd:boolean	optional	false		
	nonpersistent	xsd:boolean	optional	false		
source	<code><xsd:element name="globalVars" type="ppx:varList" minOccurs="0" maxOccurs="unbounded"/></code>					

element `project/instances/configurations/configuration/accessVars`

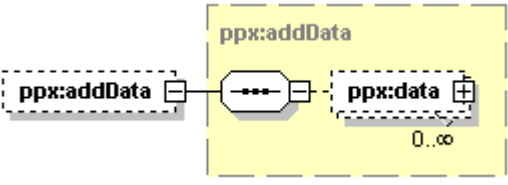
diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:varListAccess					
properties	isRef	0	minOcc	0	maxOcc	1
	content	complex				
children	ppx:accessVariable ppx:addData ppx:documentation					
source	<code><xsd:element name="accessVars" type="ppx:varListAccess" minOccurs="0"/></code>					

element `project/instances/configurations/configuration/configVars`

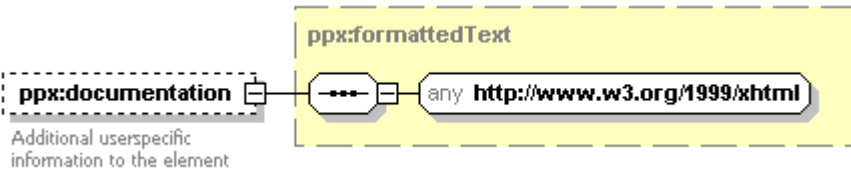
diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:varListConfig					
properties	isRef	0	minOcc	0	maxOcc	1

	content complex
children	ppx:configVariable ppx:addData ppx:documentation
source	<code><xsd:element name="configVars" type="ppx:varListConfig" minOccurs="0"/></code>

element `project/instances/configurations/configuration/addData`

diagram	 <p>The diagram shows the structure of the <code>ppx:addData</code> element. It is a container element (represented by a dashed box) that contains a sequence of two elements: <code>ppx:addData</code> (represented by a solid box) and <code>ppx:data</code> (represented by a dashed box). The <code>ppx:data</code> element has a cardinality of <code>0..∞</code>.</p>								
namespace	<code>http://www.plcopen.org/xml/tc6_0201</code>								
type	ppx:addData								
properties	<table border="0"> <tr><td>isRef</td><td>0</td></tr> <tr><td>minOcc</td><td>0</td></tr> <tr><td>maxOcc</td><td>1</td></tr> <tr><td>content</td><td>complex</td></tr> </table>	isRef	0	minOcc	0	maxOcc	1	content	complex
isRef	0								
minOcc	0								
maxOcc	1								
content	complex								
children	ppx:data								
source	<code><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></code>								

element `project/instances/configurations/configuration/documentation`

diagram	 <p>The diagram shows the structure of the <code>ppx:documentation</code> element. It is a container element (represented by a dashed box) that contains a sequence of two elements: <code>ppx:documentation</code> (represented by a solid box) and <code>any http://www.w3.org/1999/xhtml</code> (represented by a solid box). Below the <code>ppx:documentation</code> element, there is a note: "Additional userspecific information to the element".</p>								
namespace	<code>http://www.plcopen.org/xml/tc6_0201</code>								
type	ppx:formattedText								
properties	<table border="0"> <tr><td>isRef</td><td>0</td></tr> <tr><td>minOcc</td><td>0</td></tr> <tr><td>maxOcc</td><td>1</td></tr> <tr><td>content</td><td>complex</td></tr> </table>	isRef	0	minOcc	0	maxOcc	1	content	complex
isRef	0								
minOcc	0								
maxOcc	1								
content	complex								
annotation	<p>documentation</p> <p>Additional userspecific information to the element</p>								
source	<pre> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"> <xsd:annotation> <xsd:documentation>Additional userspecific information to the element</xsd:documentation> </xsd:annotation> </xsd:element> </pre>								

element project/addData

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<code><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></code>

element project/documentation

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
annotation	documentation Additional userspecific information to the element
source	<pre> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"> <xsd:annotation> <xsd:documentation>Additional userspecific information to the element</xsd:documentation> </xsd:annotation> </xsd:element> </pre>

group commonObjects

diagram	<p>Collection of objects which have no direct iec scope and can be used in any graphical body.</p> <p>Counterpart of the connector element</p>
namespace	http://www.plcopen.org/xml/tc6_0201
children	ppx:comment ppx:error ppx:connector ppx:continuation ppx:actionBlock ppx:vendorElement
used by	elements body/FBD body/LD body/SFC
annotation	documentation Collection of objects which have no direct iec scope and can be used in any graphical body.
source	<pre> <xsd:group name="commonObjects"> <xsd:annotation> <xsd:documentation>Collection of objects which have no direct iec scope and can be used in any graphical body.</xsd:documentation> </xsd:annotation> <xsd:choice> <xsd:element name="comment"> <xsd:complexType> <xsd:sequence> <xsd:element name="position" type="ppx:position"/> <xsd:element name="content" type="ppx:formattedText"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/> <xsd:attribute name="height" type="xsd:decimal" use="required"/> <xsd:attribute name="width" type="xsd:decimal" use="required"/> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> <xsd:element name="error"> <xsd:complexType mixed="false"> <xsd:annotation> <xsd:documentation>Describes a graphical object representing a conversion error. Used to keep information which can not be interpreted by the importing system</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="position" type="ppx:position"/> <xsd:element name="content" type="ppx:formattedText"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/> </xsd:complexType> </xsd:element> </xsd:choice> </pre>

```

<xsd:attribute name="height" type="xsd:decimal" use="required"/>
<xsd:attribute name="width" type="xsd:decimal" use="required"/>
<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>
</xsd:element>
<xsd:element name="connector">
  <xsd:complexType>
    <xsd:annotation>
      <xsd:documentation>Describes a graphical object representing a variable, literal or
expression used as r-value</xsd:documentation>
    </xsd:annotation>
    <xsd:sequence>
      <xsd:element name="position" type="ppx:position"/>
      <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/>
      <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
      <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute name="name" type="xsd:string" use="required">
      <xsd:annotation>
        <xsd:documentation>The operand is a valid iec variable e.g. avar[0]</xsd:documentation>
      </xsd:annotation>
    </xsd:attribute>
    <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
    <xsd:attribute name="height" type="xsd:decimal" use="optional"/>
    <xsd:attribute name="width" type="xsd:decimal" use="optional"/>
    <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
  </xsd:complexType>
</xsd:element>
<xsd:element name="continuation">
  <xsd:annotation>
    <xsd:documentation>Counterpart of the connector element</xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:annotation>
      <xsd:documentation>Describes a graphical object representing a variable, literal or
expression used as r-value</xsd:documentation>
    </xsd:annotation>
    <xsd:sequence>
      <xsd:element name="position" type="ppx:position"/>
      <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/>
      <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
      <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute name="name" type="xsd:string" use="required">
      <xsd:annotation>
        <xsd:documentation>The operand is a valid iec variable e.g. avar[0]</xsd:documentation>
      </xsd:annotation>
    </xsd:attribute>
    <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
    <xsd:attribute name="height" type="xsd:decimal" use="optional"/>
    <xsd:attribute name="width" type="xsd:decimal" use="optional"/>
    <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
  </xsd:complexType>
</xsd:element>
<xsd:element name="actionBlock">
  <xsd:complexType>

```

```

<xsd:sequence>
  <xsd:element name="position" type="ppx:position"/>
  <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/>
  <xsd:element name="action" minOccurs="0" maxOccurs="unbounded">
    <xsd:complexType>
      <xsd:annotation>
        <xsd:documentation>Association of an action with qualifier</xsd:documentation>
      </xsd:annotation>
      <xsd:sequence>
        <xsd:element name="relPosition" type="ppx:position">
          <xsd:annotation>
            <xsd:documentation>Relative position of the action. Origin is the anchor position of the
action block.</xsd:documentation>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="reference" minOccurs="0">
          <xsd:annotation>
            <xsd:documentation>Name of an action or boolean variable.</xsd:documentation>
          </xsd:annotation>
          <xsd:complexType>
            <xsd:attribute name="name" type="xsd:string" use="required"/>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="inline" type="ppx:body" minOccurs="0">
          <xsd:annotation>
            <xsd:documentation>Inline implementation of an action body.</xsd:documentation>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="connectionPointOut" type="ppx:connectionPointOut"
minOccurs="0"/>
          <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
          <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
        </xsd:sequence>
      <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
      <xsd:attribute name="qualifier" use="optional" default="N">
        <xsd:simpleType>
          <xsd:restriction base="xsd:NMTOKEN">
            <xsd:enumeration value="P1"/>
            <xsd:enumeration value="N"/>
            <xsd:enumeration value="P0"/>
            <xsd:enumeration value="R"/>
            <xsd:enumeration value="S"/>
            <xsd:enumeration value="L"/>
            <xsd:enumeration value="D"/>
            <xsd:enumeration value="P"/>
            <xsd:enumeration value="DS"/>
            <xsd:enumeration value="DL"/>
            <xsd:enumeration value="SD"/>
            <xsd:enumeration value="SL"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:attribute>
      <xsd:attribute name="width" type="xsd:decimal" use="optional"/>
      <xsd:attribute name="height" type="xsd:decimal" use="optional"/>
      <xsd:attribute name="duration" type="xsd:string" use="optional"/>
      <xsd:attribute name="indicator" type="xsd:string" use="optional"/>

```

```

<xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional">
  <xsd:annotation>
    <xsd:documentation>Used to identify the order of execution. Also used to identify one
special block if there are several blocks with the same name.</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>
</xsd:element>
<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
</xsd:sequence>
<xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
<xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>
<xsd:attribute name="width" type="xsd:decimal" use="optional"/>
<xsd:attribute name="height" type="xsd:decimal" use="optional"/>
<xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional">
  <xsd:annotation>
    <xsd:documentation>Used to identify the order of execution. Also used to identify one
special block if there are several blocks with the same name.</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>
</xsd:element>
<xsd:element name="vendorElement">
  <xsd:complexType>
    <xsd:annotation>
      <xsd:documentation>Describes a graphical object representing a call
statement</xsd:documentation>
    </xsd:annotation>
    <xsd:sequence>
      <xsd:element name="position" type="ppx:position">
        <xsd:annotation>
          <xsd:documentation>Anchor position of the box. Top left corner excluding the instance
name.</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element name="alternativeText" type="ppx:formattedText">
        <xsd:annotation>
          <xsd:documentation>An alternative text to be displayed in generic representation of
unknown elements.</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element name="inputVariables" minOccurs="0">
        <xsd:annotation>
          <xsd:documentation>The list of used input variables (consumers)</xsd:documentation>
        </xsd:annotation>
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="variable" minOccurs="0" maxOccurs="unbounded">
              <xsd:complexType>
                <xsd:annotation>
                  <xsd:documentation>Describes an inputVariable of a Function or a
FunctionBlock</xsd:documentation>
                </xsd:annotation>

```

```

    <xsd:sequence>
      <xsd:element name="connectionPointIn" type="ppx:connectionPointIn"/>
      <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute name="formalParameter" type="xsd:string" use="required"/>
    <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>
    <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional"
default="none"/>
    <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional"
default="none"/>
    <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/>
  </xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="inOutVariables" minOccurs="0">
  <xsd:annotation>
    <xsd:documentation>The list of used inOut variables</xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="variable" minOccurs="0" maxOccurs="unbounded">
        <xsd:complexType>
          <xsd:annotation>
            <xsd:documentation>Describes a inOutVariable of a Function or a
FunctionBlock</xsd:documentation>
          </xsd:annotation>
          <xsd:sequence>
            <xsd:element name="connectionPointIn" type="ppx:connectionPointIn"
minOccurs="0"/>
            <xsd:element name="connectionPointOut" type="ppx:connectionPointOut"
minOccurs="0"/>
            <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
          </xsd:sequence>
          <xsd:attribute name="formalParameter" type="xsd:string" use="required"/>
          <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>
          <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional"
default="none"/>
          <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional"
default="none"/>
          <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/>
        </xsd:complexType>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="outputVariables" minOccurs="0">
  <xsd:annotation>
    <xsd:documentation>The list of used output variables (producers)</xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="variable" minOccurs="0" maxOccurs="unbounded">
        <xsd:complexType>
          <xsd:annotation>

```

```

        <xsd:documentation>Describes a outputVariable of a Function or a
FunctionBlock</xsd:documentation>
        </xsd:annotation>
        <xsd:sequence>
          <xsd:element name="connectionPointOut" type="ppx:connectionPointOut"
minOccurs="0"/>
          <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
        </xsd:sequence>
        <xsd:attribute name="formalParameter" type="xsd:string" use="required"/>
        <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>
        <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional"
default="none"/>
        <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional"
default="none"/>
        <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/>
      </xsd:complexType>
    </xsd:element>
  </xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="addData" type="ppx:addData">
  <xsd:annotation>
    <xsd:documentation>Additional, vendor specific data for the element. Also defines the
vendor specific meaning of the element.</xsd:documentation>
  </xsd:annotation>
</xsd:element>
</xsd:sequence>
<xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
<xsd:attribute name="width" type="xsd:decimal" use="optional"/>
<xsd:attribute name="height" type="xsd:decimal" use="optional"/>
<xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional">
  <xsd:annotation>
    <xsd:documentation>Used to identify the order of execution. Also used to identify one
special block if there are several blocks with the same name.</xsd:documentation>
  </xsd:annotation>
  </xsd:attribute>
  <xsd:attribute name="globalId"/>
</xsd:complexType>
</xsd:element>
</xsd:choice>
</xsd:group>

```

element **commonObjects/comment**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
properties	isRef	0				
	content	complex				
children	ppx:position ppx:content ppx:addData ppx:documentation					
attributes	Name	Type	Use	Default	Fixed	annotation
	localId	xsd:unsignedLong	required			
	height	xsd:decimal	required			
	width	xsd:decimal	required			
	globalId	xsd:ID	optional			
source	<pre> <xsd:element name="comment"> <xsd:complexType> <xsd:sequence> <xsd:element name="position" type="ppx:position"/> <xsd:element name="content" type="ppx:formattedText"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/> <xsd:attribute name="height" type="xsd:decimal" use="required"/> <xsd:attribute name="width" type="xsd:decimal" use="required"/> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </pre>					

attribute **commonObjects/comment/@localId**

type	xsd:unsignedLong
properties	isRef 0 use required
source	<pre><xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/></pre>

attribute **commonObjects/comment/@height**

type	xsd:decimal
properties	isRef 0 use required
source	<code><xsd:attribute name="height" type="xsd:decimal" use="required"/></code>

attribute **commonObjects/comment/@width**

type	xsd:decimal
properties	isRef 0 use required
source	<code><xsd:attribute name="width" type="xsd:decimal" use="required"/></code>

attribute **commonObjects/comment/@globalId**

type	xsd:ID
properties	isRef 0 use optional
source	<code><xsd:attribute name="globalId" type="xsd:ID" use="optional"/></code>

element **commonObjects/comment/position**

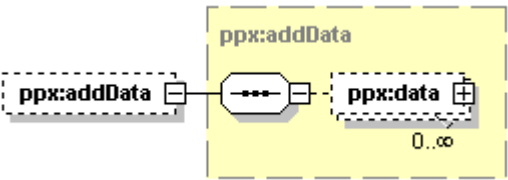
diagram							
namespace	http://www.plcopen.org/xml/tc6_0201						
type	ppx:position						
properties	isRef 0	content	complex				
attributes	Name	Type	Use	Default	Fixed	annotation	
	x	xsd:decimal	required				
	y	xsd:decimal	required				
source	<code><xsd:element name="position" type="ppx:position"/></code>						

element **commonObjects/comment/content**


diagram							
---------	--	--	--	--	--	--	--

namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 content complex
source	<xsd:element name="content" type="ppx:formattedText"/>

element **commonObjects/comment/addData**

diagram	 <p>The diagram shows the structure of the <code>ppx:addData</code> element. It consists of a root element <code>ppx:addData</code> (represented by a dashed box) containing a sequence of two elements: <code>ppx:addData</code> (represented by a solid box) and <code>ppx:data</code> (represented by a dashed box). The <code>ppx:data</code> element has a cardinality of <code>0..∞</code>.</p>
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>

element **commonObjects/comment/documentation**

diagram	 <p>The diagram shows the structure of the <code>ppx:formattedText</code> element. It consists of a root element <code>ppx:formattedText</code> (represented by a dashed box) containing a sequence of two elements: <code>ppx:documentation</code> (represented by a dashed box) and <code>any http://www.w3.org/1999/xhtml</code> (represented by a solid box).</p>
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
source	<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>

element **commonObjects/error**

diagram																															
namespace	http://www.plcopen.org/xml/tc6_0201																														
properties	<table border="0"> <tr> <td>isRef</td> <td>0</td> </tr> <tr> <td>content</td> <td>complex</td> </tr> <tr> <td>mixed</td> <td>false</td> </tr> </table>	isRef	0	content	complex	mixed	false																								
isRef	0																														
content	complex																														
mixed	false																														
children	ppx:position ppx:content ppx:addData ppx:documentation																														
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>localId</td> <td>xsd:unsignedLong</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>height</td> <td>xsd:decimal</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>width</td> <td>xsd:decimal</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	localId	xsd:unsignedLong	required				height	xsd:decimal	required				width	xsd:decimal	required				globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation																										
localId	xsd:unsignedLong	required																													
height	xsd:decimal	required																													
width	xsd:decimal	required																													
globalId	xsd:ID	optional																													
source	<pre> <xsd:element name="error"> <xsd:complexType mixed="false"> <xsd:annotation> <xsd:documentation>Describes a graphical object representing a conversion error. Used to keep information which can not be interpreted by the importing system</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="position" type="ppx:position"/> <xsd:element name="content" type="ppx:formattedText"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/> <xsd:attribute name="height" type="xsd:decimal" use="required"/> <xsd:attribute name="width" type="xsd:decimal" use="required"/> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </pre>																														

attribute **commonObjects/error/@localId**

type	xsd:unsignedLong
------	-------------------------

properties	isRef 0 use required
source	<xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>

attribute **commonObjects/error/@height**

type	xsd:decimal
properties	isRef 0 use required
source	<xsd:attribute name="height" type="xsd:decimal" use="required"/>

attribute **commonObjects/error/@width**

type	xsd:decimal
properties	isRef 0 use required
source	<xsd:attribute name="width" type="xsd:decimal" use="required"/>

attribute **commonObjects/error/@globalId**

type	xsd:ID
properties	isRef 0 use optional
source	<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>

element **commonObjects/error/position**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:position					
properties	isRef 0 content complex					
attributes	Name	Type	Use	Default	Fixed	annotation
	x	xsd:decimal	required			
	y	xsd:decimal	required			
source	<xsd:element name="position" type="ppx:position"/>					

element commonObjects/error/content

diagram	<p>The diagram shows a yellow dashed box labeled 'ppx:formattedText'. Inside this box, there is a solid box labeled 'ppx:content' connected to a dashed box labeled 'any http://www.w3.org/1999/xhtml' via a connector with three dots.</p>
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 content complex
source	<code><xsd:element name="content" type="ppx:formattedText"/></code>

element commonObjects/error/addData

diagram	<p>The diagram shows a yellow dashed box labeled 'ppx:addData'. Inside this box, there is a dashed box labeled 'ppx:addData' connected to a dashed box labeled 'ppx:data' via a connector with three dots. Below the 'ppx:data' box, the text '0..∞' is written.</p>
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<code><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></code>

element commonObjects/error/documentation

diagram	<p>The diagram shows a yellow dashed box labeled 'ppx:formattedText'. Inside this box, there is a dashed box labeled 'ppx:documentation' connected to a dashed box labeled 'any http://www.w3.org/1999/xhtml' via a connector with three dots.</p>
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
source	<code><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></code>

element **commonObjects/connector**

<p>diagram</p>																																					
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>																																				
<p>properties</p>	<p>isRef 0 content complex</p>																																				
<p>children</p>	<p>ppx:position ppx:connectionPointIn ppx:addData ppx:documentation</p>																																				
<p>attributes</p>	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>name</td> <td>xsd:string</td> <td>required</td> <td></td> <td></td> <td>documentation The operand is a valid iec variable e.g. avar[0]</td> </tr> <tr> <td>localId</td> <td>xsd:unsignedLong</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>height</td> <td>xsd:decimal</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>width</td> <td>xsd:decimal</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	name	xsd:string	required			documentation The operand is a valid iec variable e.g. avar[0]	localId	xsd:unsignedLong	required				height	xsd:decimal	optional				width	xsd:decimal	optional				globalId	xsd:ID	optional			
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width	xsd:decimal	optional																																			
globalId	xsd:ID	optional																																			
<p>source</p>	<pre><xsd:element name="connector"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Describes a graphical object representing a variable, literal or expression used as r-value</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="position" type="ppx:position"/> <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="name" type="xsd:string" use="required"> <xsd:annotation> <xsd:documentation>The operand is a valid iec variable e.g. avar[0]</xsd:documentation> </xsd:annotation> </xsd:attribute> </xsd:complexType> </xsd:element></pre>																																				

	<pre> <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/> <xsd:attribute name="height" type="xsd:decimal" use="optional"/> <xsd:attribute name="width" type="xsd:decimal" use="optional"/> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </pre>
--	--

attribute **commonObjects/connector/@name**

type	xsd:string
properties	isRef 0 use required
annotation	documentation The operand is a valid iec variable e.g. avar[0]
source	<pre> <xsd:attribute name="name" type="xsd:string" use="required"> <xsd:annotation> <xsd:documentation>The operand is a valid iec variable e.g. avar[0]</xsd:documentation> </xsd:annotation> </xsd:attribute> </pre>

attribute **commonObjects/connector/@localId**

type	xsd:unsignedLong
properties	isRef 0 use required
source	<pre> <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/> </pre>

attribute **commonObjects/connector/@height**

type	xsd:decimal
properties	isRef 0 use optional
source	<pre> <xsd:attribute name="height" type="xsd:decimal" use="optional"/> </pre>

attribute **commonObjects/connector/@width**

type	xsd:decimal
properties	isRef 0 use optional
source	<pre> <xsd:attribute name="width" type="xsd:decimal" use="optional"/> </pre>

attribute **commonObjects/connector/@globalId**

type	xsd:ID
properties	isRef 0 use optional
source	<pre> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </pre>

element **commonObjects/connector/position**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:position					
properties	isRef	0	content	complex		
attributes	Name	Type	Use	Default	Fixed	annotation
	x	xsd:decimal	required			
	y	xsd:decimal	required			
source	<xsd:element name="position" type="ppx:position"/>					

element **commonObjects/connector/connectionPointIn**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:connectionPointIn					
properties	isRef	0	minOcc	0		

	maxOcc content	1 complex				
children	ppx:relPosition ppx:connection ppx:expression ppx:addData					
attributes	Name globalId	Type xsd:ID	Use optional	Default	Fixed	annotation
source	<xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/>					

element **commonObjects/connector/addData**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:addData					
properties	isRef	0	minOcc	0	maxOcc	1
	content	complex				
children	ppx:data					
source	<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>					

element **commonObjects/connector/documentation**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:formattedText					
properties	isRef	0	minOcc	0	maxOcc	1
	content	complex				
source	<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>					

element commonObjects/continuation

diagram																																					
namespace	http://www.plcopen.org/xml/tc6_0201																																				
properties	isRef 0 content complex																																				
children	ppx:position ppx:connectionPointOut ppx:addData ppx:documentation																																				
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>name</td> <td>xsd:string</td> <td>required</td> <td></td> <td></td> <td>documentation The operand is a valid iec variable e.g. avar[0]</td> </tr> <tr> <td>localId</td> <td>xsd:unsignedLong</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>height</td> <td>xsd:decimal</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>width</td> <td>xsd:decimal</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	name	xsd:string	required			documentation The operand is a valid iec variable e.g. avar[0]	localId	xsd:unsignedLong	required				height	xsd:decimal	optional				width	xsd:decimal	optional				globalId	xsd:ID	optional			
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annotation	documentation Counterpart of the connector element																																				
source	<pre> <xsd:element name="continuation"> <xsd:annotation> <xsd:documentation>Counterpart of the connector element</xsd:documentation> </xsd:annotation> <xsd:complexType> <xsd:annotation> <xsd:documentation>Describes a graphical object representing a variable, literal or expression used as r-value</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="position" type="ppx:position"/> <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> </xsd:complexType> </xsd:element> </pre>																																				

	<pre> <xsd:attribute name="name" type="xsd:string" use="required"> <xsd:annotation> <xsd:documentation>The operand is a valid iec variable e.g. avar[0]</xsd:documentation> </xsd:annotation> </xsd:attribute> <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/> <xsd:attribute name="height" type="xsd:decimal" use="optional"/> <xsd:attribute name="width" type="xsd:decimal" use="optional"/> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </pre>
--	---

attribute **commonObjects/continuation/@name**

type	xsd:string
properties	isRef 0 use required
annotation	documentation The operand is a valid iec variable e.g. avar[0]
source	<pre> <xsd:attribute name="name" type="xsd:string" use="required"> <xsd:annotation> <xsd:documentation>The operand is a valid iec variable e.g. avar[0]</xsd:documentation> </xsd:annotation> </xsd:attribute> </pre>

attribute **commonObjects/continuation/@localId**

type	xsd:unsignedLong
properties	isRef 0 use required
source	<pre> <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/> </pre>

attribute **commonObjects/continuation/@height**

type	xsd:decimal
properties	isRef 0 use optional
source	<pre> <xsd:attribute name="height" type="xsd:decimal" use="optional"/> </pre>

attribute **commonObjects/continuation/@width**

type	xsd:decimal
properties	isRef 0 use optional
source	<pre> <xsd:attribute name="width" type="xsd:decimal" use="optional"/> </pre>

attribute **commonObjects/continuation/@globalId**

type	xsd:ID
------	---------------

properties	isRef 0 use optional
source	<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>

element commonObjects/continuation/position

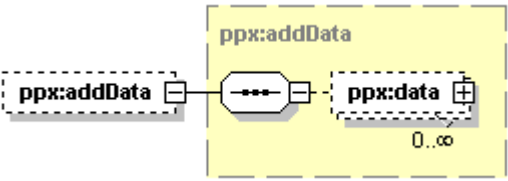
diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:position					
properties	isRef 0 content complex					
attributes	Name	Type	Use	Default	Fixed	annotation
	x	xsd:decimal	required			
	y	xsd:decimal	required			
source	<xsd:element name="position" type="ppx:position"/>					

element commonObjects/continuation/connectionPointOut


diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:connectionPointOut					
properties	isRef 0 minOcc 0 maxOcc 1 content complex					

children	ppx:relPosition ppx:expression ppx:addData					
attributes	Name globalId	Type xsd:ID	Use optional	Default	Fixed	annotation
source	<xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/>					

element **commonObjects/continuation/addData**

diagram	 <p>The diagram shows the structure of the ppx:addData element. It is a complex type containing a sequence of elements: ppx:addData, a sequence of ppx:data elements (indicated by a dashed box and '0..∞'), and another ppx:addData element. The ppx:addData elements are shown as boxes with a small square icon, and the ppx:data elements are shown as boxes with a small square icon and a plus sign.</p>					
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:addData					
properties	isRef	0	minOcc	0	maxOcc	1
	content	complex				
children	ppx:data					
source	<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>					

element **commonObjects/continuation/documentation**

diagram	 <p>The diagram shows the structure of the ppx:formattedText element. It is a complex type containing a sequence of elements: ppx:documentation, a sequence of any http://www.w3.org/1999/xhtml elements (indicated by a dashed box), and another ppx:documentation element. The ppx:documentation elements are shown as boxes with a small square icon, and the any http://www.w3.org/1999/xhtml elements are shown as boxes with a small square icon and a plus sign.</p>					
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:formattedText					
properties	isRef	0	minOcc	0	maxOcc	1
	content	complex				
source	<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>					

element **commonObjects/actionBlock**

<p>diagram</p>																																																
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>																																															
<p>properties</p>	<p>isRef 0 content complex</p>																																															
<p>children</p>	<p>ppx:position ppx:connectionPointIn ppx:action ppx:addData ppx:documentation</p>																																															
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Name	Type	Use	Default	Fixed	annotation																																											
localId	xsd:unsignedLong	required																																														
negated	xsd:boolean	optional	false																																													
width	xsd:decimal	optional																																														
height	xsd:decimal	optional																																														
executionOrderId	xsd:unsignedLong	optional																																														
globalId	xsd:ID	optional																																														
<p>source</p>	<pre><xsd:element name="actionBlock"> <xsd:complexType> <xsd:sequence></pre>																																															

```

<xsd:element name="position" type="ppx:position"/>
<xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/>
<xsd:element name="action" minOccurs="0" maxOccurs="unbounded">
  <xsd:complexType>
    <xsd:annotation>
      <xsd:documentation>Association of an action with qualifier</xsd:documentation>
    </xsd:annotation>
    <xsd:sequence>
      <xsd:element name="relPosition" type="ppx:position">
        <xsd:annotation>
          <xsd:documentation>Relative position of the action. Origin is the anchor position of the
action block.</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element name="reference" minOccurs="0">
        <xsd:annotation>
          <xsd:documentation>Name of an action or boolean variable.</xsd:documentation>
        </xsd:annotation>
        <xsd:complexType>
          <xsd:attribute name="name" type="xsd:string" use="required"/>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="inline" type="ppx:body" minOccurs="0">
        <xsd:annotation>
          <xsd:documentation>Inline implementation of an action body.</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/>
      <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
      <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
    <xsd:attribute name="qualifier" use="optional" default="N">
      <xsd:simpleType>
        <xsd:restriction base="xsd:NMTOKEN">
          <xsd:enumeration value="P1"/>
          <xsd:enumeration value="N"/>
          <xsd:enumeration value="P0"/>
          <xsd:enumeration value="R"/>
          <xsd:enumeration value="S"/>
          <xsd:enumeration value="L"/>
          <xsd:enumeration value="D"/>
          <xsd:enumeration value="P"/>
          <xsd:enumeration value="DS"/>
          <xsd:enumeration value="DL"/>
          <xsd:enumeration value="SD"/>
          <xsd:enumeration value="SL"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:attribute>
    <xsd:attribute name="width" type="xsd:decimal" use="optional"/>
    <xsd:attribute name="height" type="xsd:decimal" use="optional"/>
    <xsd:attribute name="duration" type="xsd:string" use="optional"/>
    <xsd:attribute name="indicator" type="xsd:string" use="optional"/>
    <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional">
      <xsd:annotation>

```

	<pre> <xsd:documentation>Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.</xsd:documentation> </xsd:annotation> </xsd:attribute> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/> <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/> <xsd:attribute name="width" type="xsd:decimal" use="optional"/> <xsd:attribute name="height" type="xsd:decimal" use="optional"/> <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/> <xsd:annotation> <xsd:documentation>Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.</xsd:documentation> </xsd:annotation> </xsd:attribute> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </pre>
--	---

attribute commonObjects/actionBlock/@localId

type	xsd:unsignedLong
properties	isRef 0 use required
source	<xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>

attribute commonObjects/actionBlock/@negated

type	xsd:boolean
properties	isRef 0 default false use optional
source	<xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>

attribute commonObjects/actionBlock/@width

type	xsd:decimal
properties	isRef 0 use optional
source	<xsd:attribute name="width" type="xsd:decimal" use="optional"/>

attribute commonObjects/actionBlock/@height

type	xsd:decimal
properties	isRef 0 use optional

source	<code><xsd:attribute name="height" type="xsd:decimal" use="optional"/></code>
--------	---

attribute commonObjects/actionBlock/@executionOrderId

type	xsd:unsignedLong
properties	isRef 0 use optional
annotation	documentation Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.
source	<code><xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"> <xsd:annotation> <xsd:documentation>Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.</xsd:documentation> </xsd:annotation> </xsd:attribute></code>

attribute commonObjects/actionBlock/@globalId

type	xsd:ID
properties	isRef 0 use optional
source	<code><xsd:attribute name="globalId" type="xsd:ID" use="optional"/></code>

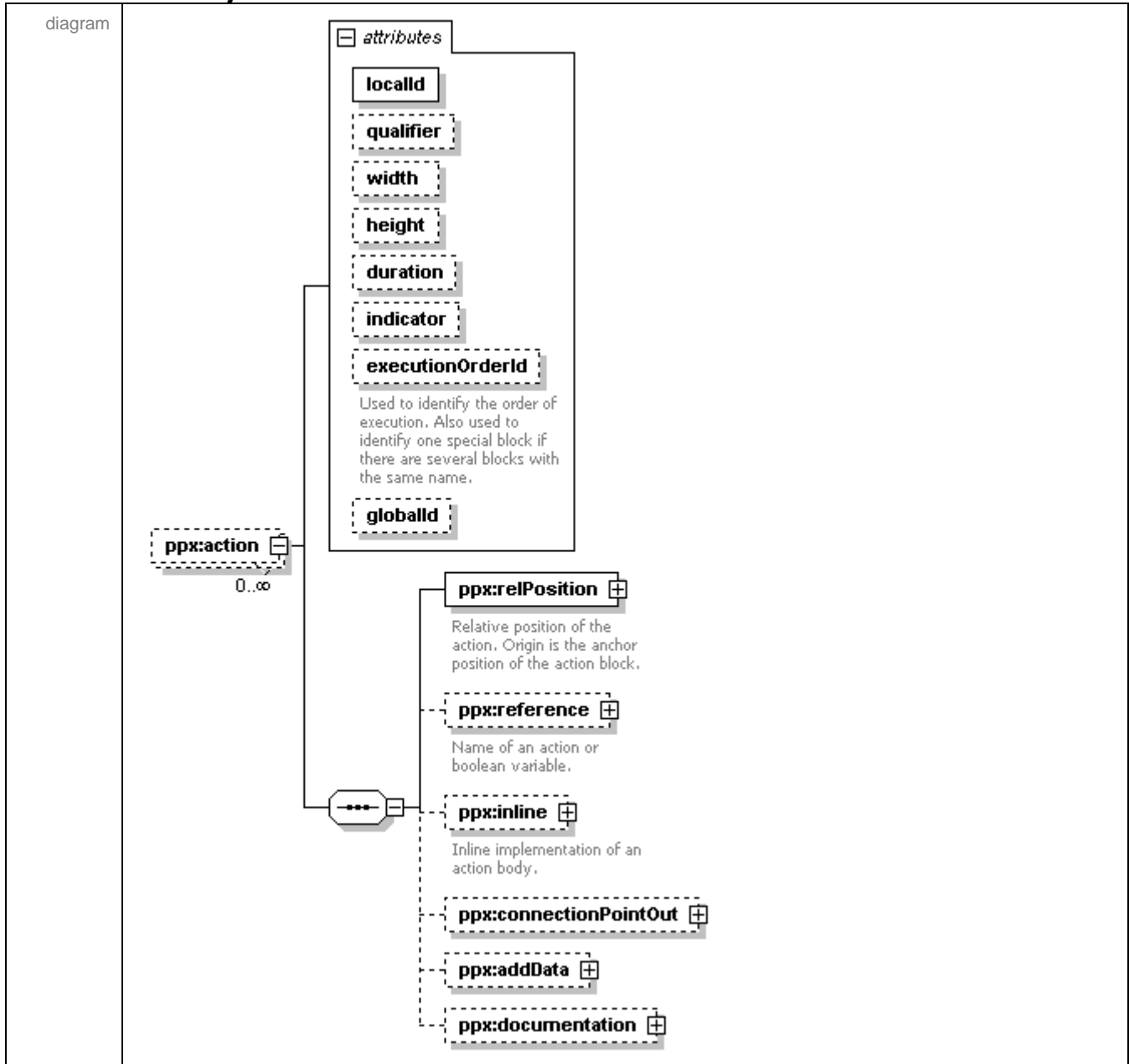
element commonObjects/actionBlock/position

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:position					
properties	isRef	0	content	complex		
attributes	Name	Type	Use	Default	Fixed	annotation
	x	xsd:decimal	required			
	y	xsd:decimal	required			
source	<code><xsd:element name="position" type="ppx:position"/></code>					

element **commonObjects/actionBlock/connectionPointIn**

<p>diagram</p>													
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>												
<p>type</p>	<p>ppx:connectionPointIn</p>												
<p>properties</p>	<p>isRef 0 minOcc 0 maxOcc 1 content complex</p>												
<p>children</p>	<p>ppx:relPosition ppx:connection ppx:expression ppx:addData</p>												
<p>attributes</p>	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation								
globalId	xsd:ID	optional											
<p>source</p>	<pre><xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/></pre>												

element **commonObjects/actionBlock/action**



namespace	http://www.plcopen.org/xml/tc6_0201					
properties	isRef	0				
	minOcc	0				
	maxOcc	unbounded				
	content	complex				
children	ppx:relPosition ppx:reference ppx:inline ppx:connectionPointOut ppx:addData ppx:documentation					
attributes	Name	Type	Use	Default	Fixed	annotation
	localId	xsd:unsignedLong	required			
	qualifier	derived by: xsd:NMTOKEN	optional	N		
	width	xsd:decimal	optional			
	height	xsd:decimal	optional			
	duration	xsd:string	optional			

	<p>indicator xsd:string optional</p> <p>executionOrderId xsd:unsignedLong optional</p>	<p>documentation Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.</p>
<p>source</p>	<pre> <xsd:element name="action" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Association of an action with qualifier</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="relPosition" type="ppx:position"> <xsd:annotation> <xsd:documentation>Relative position of the action. Origin is the anchor position of the action block.</xsd:documentation> </xsd:annotation> </xsd:element> <xsd:element name="reference" minOccurs="0"> <xsd:annotation> <xsd:documentation>Name of an action or boolean variable.</xsd:documentation> </xsd:annotation> <xsd:complexType> <xsd:attribute name="name" type="xsd:string" use="required"/> </xsd:complexType> </xsd:element> <xsd:element name="inline" type="ppx:body" minOccurs="0"> <xsd:annotation> <xsd:documentation>Inline implementation of an action body.</xsd:documentation> </xsd:annotation> </xsd:element> <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/> <xsd:attribute name="qualifier" use="optional" default="N"> <xsd:simpleType> <xsd:restriction base="xsd:NMTOKEN"> <xsd:enumeration value="P1"/> <xsd:enumeration value="N"/> <xsd:enumeration value="P0"/> <xsd:enumeration value="R"/> <xsd:enumeration value="S"/> <xsd:enumeration value="L"/> <xsd:enumeration value="D"/> <xsd:enumeration value="P"/> <xsd:enumeration value="DS"/> <xsd:enumeration value="DL"/> </xsd:restriction> </xsd:simpleType> </xsd:attribute> </xsd:complexType> </xsd:element> </pre>	

	<pre> <xsd:enumeration value="SD"/> <xsd:enumeration value="SL"/> </xsd:restriction> </xsd:simpleType> </xsd:attribute> <xsd:attribute name="width" type="xsd:decimal" use="optional"/> <xsd:attribute name="height" type="xsd:decimal" use="optional"/> <xsd:attribute name="duration" type="xsd:string" use="optional"/> <xsd:attribute name="indicator" type="xsd:string" use="optional"/> <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"> <xsd:annotation> <xsd:documentation>Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.</xsd:documentation> </xsd:annotation> </xsd:attribute> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </pre>
--	---

attribute **commonObjects/actionBlock/action/@localId**

type	xsd:unsignedLong
properties	isRef 0 use required
source	<xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>

attribute **commonObjects/actionBlock/action/@qualifier**

type	restriction of xsd:NMTOKEN
properties	isRef 0 default N use optional
facets	enumeration P1 enumeration N enumeration P0 enumeration R enumeration S enumeration L enumeration D enumeration P enumeration DS enumeration DL enumeration SD enumeration SL
source	<pre> <xsd:attribute name="qualifier" use="optional" default="N"> <xsd:simpleType> <xsd:restriction base="xsd:NMTOKEN"> <xsd:enumeration value="P1"/> <xsd:enumeration value="N"/> <xsd:enumeration value="P0"/> <xsd:enumeration value="R"/> <xsd:enumeration value="S"/> <xsd:enumeration value="L"/> <xsd:enumeration value="D"/> <xsd:enumeration value="P"/> <xsd:enumeration value="DS"/> </xsd:restriction> </xsd:simpleType> </xsd:attribute> </pre>

	<pre> <xsd:enumeration value="DL"/> <xsd:enumeration value="SD"/> <xsd:enumeration value="SL"/> </xsd:restriction> </xsd:simpleType> </xsd:attribute> </pre>
--	--

attribute **commonObjects/actionBlock/action/@width**

type	xsd:decimal
properties	isRef 0 use optional
source	<pre><xsd:attribute name="width" type="xsd:decimal" use="optional"/></pre>

attribute **commonObjects/actionBlock/action/@height**

type	xsd:decimal
properties	isRef 0 use optional
source	<pre><xsd:attribute name="height" type="xsd:decimal" use="optional"/></pre>

attribute **commonObjects/actionBlock/action/@duration**

type	xsd:string
properties	isRef 0 use optional
source	<pre><xsd:attribute name="duration" type="xsd:string" use="optional"/></pre>

attribute **commonObjects/actionBlock/action/@indicator**

type	xsd:string
properties	isRef 0 use optional
source	<pre><xsd:attribute name="indicator" type="xsd:string" use="optional"/></pre>

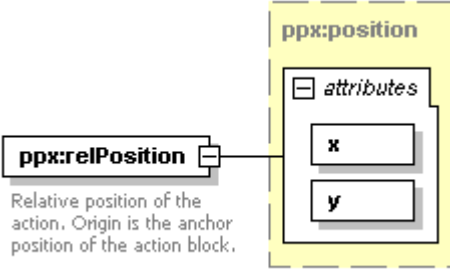
attribute **commonObjects/actionBlock/action/@executionOrderId**

type	xsd:unsignedLong
properties	isRef 0 use optional
annotation	documentation Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.
source	<pre> <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"> <xsd:annotation> <xsd:documentation>Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.</xsd:documentation> </xsd:annotation> </xsd:attribute> </pre>

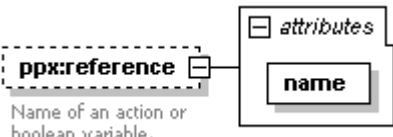
attribute **commonObjects/actionBlock/action/@globalId**

type	xsd:ID
properties	isRef 0 use optional
source	<code><xsd:attribute name="globalId" type="xsd:ID" use="optional"/></code>

element **commonObjects/actionBlock/action/relPosition**

diagram	 <p>Relative position of the action. Origin is the anchor position of the action block.</p>																		
namespace	http://www.plcopen.org/xml/tc6_0201																		
type	ppx:position																		
properties	isRef 0 content complex																		
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>x</td> <td>xsd:decimal</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>y</td> <td>xsd:decimal</td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	x	xsd:decimal	required				y	xsd:decimal	required			
Name	Type	Use	Default	Fixed	annotation														
x	xsd:decimal	required																	
y	xsd:decimal	required																	
annotation	documentation Relative position of the action. Origin is the anchor position of the action block.																		
source	<pre> <xsd:element name="relPosition" type="ppx:position"> <xsd:annotation> <xsd:documentation>Relative position of the action. Origin is the anchor position of the action block.</xsd:documentation> </xsd:annotation> </xsd:element> </pre>																		

element **commonObjects/actionBlock/action/reference**

diagram	 <p>Name of an action or boolean variable.</p>												
namespace	http://www.plcopen.org/xml/tc6_0201												
properties	isRef 0 minOcc 0 maxOcc 1 content complex												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>name</td> <td>xsd:string</td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	name	xsd:string	required			
Name	Type	Use	Default	Fixed	annotation								
name	xsd:string	required											
annotation	documentation												

	Name of an action or boolean variable.
source	<pre><xsd:element name="reference" minOccurs="0"> <xsd:annotation> <xsd:documentation>Name of an action or boolean variable.</xsd:documentation> </xsd:annotation> <xsd:complexType> <xsd:attribute name="name" type="xsd:string" use="required"/> </xsd:complexType> </xsd:element></pre>

attribute **commonObjects/actionBlock/action/reference/@name**

type	xsd:string
properties	isRef 0 use required
source	<pre><xsd:attribute name="name" type="xsd:string" use="required"/></pre>

element **commonObjects/actionBlock/action/inline**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:body
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:IL ppx:ST ppx:FBD ppx:LD ppx:SFC ppx:addData ppx:documentation

attributes	Name WorksheetName globalId	Type xsd:string xsd:ID	Use optional optional	Default	Fixed	annotation
annotation	documentation Inline implementation of an action body.					
source	<pre><xsd:element name="inline" type="ppx:body" minOccurs="0"> <xsd:annotation> <xsd:documentation>Inline implementation of an action body.</xsd:documentation> </xsd:annotation> </xsd:element></pre>					

element **commonObjects/actionBlock/action/connectionPointOut**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:connectionPointOut					
properties	isRef 0 minOcc 0 maxOcc 1 content complex					
children	ppx:relPosition ppx:expression ppx:addData					
attributes	Name globalId	Type xsd:ID	Use optional	Default	Fixed	annotation
source	<pre><xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/></pre>					

element **commonObjects/actionBlock/action/addData**

diagram						
---------	--	--	--	--	--	--

namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>

element **commonObjects/actionBlock/action/documentation**

diagram	<p>The diagram shows a dashed box labeled 'ppx:documentation' connected to a solid box labeled 'ppx:formattedText'. Inside 'ppx:formattedText', there is an 'any' element with the namespace 'http://www.w3.org/1999/xhtml'.</p>
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
source	<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>

element **commonObjects/actionBlock/addData**

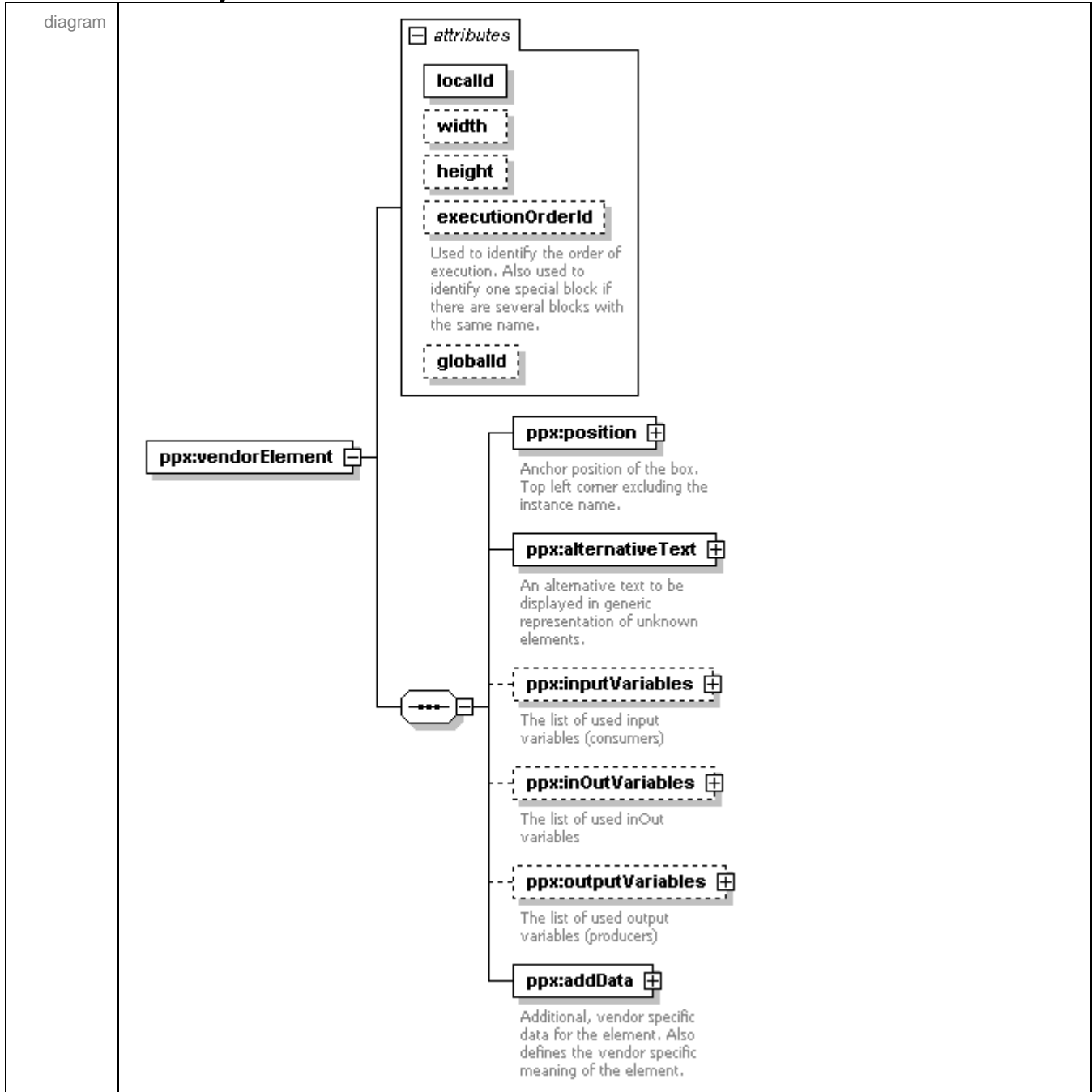
diagram	<p>The diagram shows a dashed box labeled 'ppx:addData' connected to a solid box labeled 'ppx:data'. Below 'ppx:data' is the cardinality '0..∞'.</p>
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>

element **commonObjects/actionBlock/documentation**

diagram	<p>The diagram shows a dashed box labeled 'ppx:documentation' connected to a solid box labeled 'ppx:formattedText'. Inside 'ppx:formattedText', there is an 'any' element with the namespace 'http://www.w3.org/1999/xhtml'.</p>
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namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
source	<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>

element **commonObjects/vendorElement**



namespace	http://www.plcopen.org/xml/tc6_0201					
properties	isRef	0	content	complex		
children	ppx:position ppx:alternativeText ppx:inputVariables ppx:inOutVariables ppx:outputVariables ppx:addData					
attributes	Name	Type	Use	Default	Fixed	annotation
	localId	xsd:unsignedLong	required			
	width	xsd:decimal	optional			
	height	xsd:decimal	optional			
	executionOrderId	xsd:unsignedLong	optional			documentation Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.
	globalId	xsd:ID	optional			
source	<pre> <xsd:element name="vendorElement"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Describes a graphical object representing a call statement</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="position" type="ppx:position"> <xsd:annotation> <xsd:documentation>Anchor position of the box. Top left corner excluding the instance name.</xsd:documentation> </xsd:annotation> </xsd:element> <xsd:element name="alternativeText" type="ppx:formattedText"> <xsd:annotation> <xsd:documentation>An alternative text to be displayed in generic representation of unknown elements.</xsd:documentation> </xsd:annotation> </xsd:element> <xsd:element name="inputVariables" minOccurs="0"> <xsd:annotation> <xsd:documentation>The list of used input variables (consumers)</xsd:documentation> </xsd:annotation> <xsd:complexType> <xsd:sequence> <xsd:element name="variable" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Describes an inputVariable of a Function or a FunctionBlock</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="connectionPointIn" type="ppx:connectionPointIn"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="formalParameter" type="xsd:string" use="required"/> </pre>					

```

        <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>
        <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional"
default="none"/>
        <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional"
default="none"/>
        <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/>
        </xsd:complexType>
    </xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="inOutVariables" minOccurs="0">
    <xsd:annotation>
        <xsd:documentation>The list of used inOut variables</xsd:documentation>
    </xsd:annotation>
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="variable" minOccurs="0" maxOccurs="unbounded">
                <xsd:complexType>
                    <xsd:annotation>
                        <xsd:documentation>Describes a inOutVariable of a Function or a
FunctionBlock</xsd:documentation>
                    </xsd:annotation>
                    <xsd:sequence>
                        <xsd:element name="connectionPointIn" type="ppx:connectionPointIn"
minOccurs="0"/>
                        <xsd:element name="connectionPointOut" type="ppx:connectionPointOut"
minOccurs="0"/>
                        <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
                    </xsd:sequence>
                    <xsd:attribute name="formalParameter" type="xsd:string" use="required"/>
                    <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>
                    <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional"
default="none"/>
                    <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional"
default="none"/>
                    <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/>
                </xsd:complexType>
            </xsd:element>
        </xsd:sequence>
    </xsd:complexType>
</xsd:element>
<xsd:element name="outputVariables" minOccurs="0">
    <xsd:annotation>
        <xsd:documentation>The list of used output variables (producers)</xsd:documentation>
    </xsd:annotation>
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="variable" minOccurs="0" maxOccurs="unbounded">
                <xsd:complexType>
                    <xsd:annotation>
                        <xsd:documentation>Describes a outputVariable of a Function or a
FunctionBlock</xsd:documentation>
                    </xsd:annotation>
                    <xsd:sequence>
                        <xsd:element name="connectionPointOut" type="ppx:connectionPointOut"

```

```

minOccurs="0"/>
  <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
</xsd:sequence>
<xsd:attribute name="formalParameter" type="xsd:string" use="required"/>
<xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>
<xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional"
default="none"/>
  <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional"
default="none"/>
  <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="addData" type="ppx:addData">
  <xsd:annotation>
    <xsd:documentation>Additional, vendor specific data for the element. Also defines the
vendor specific meaning of the element.</xsd:documentation>
  </xsd:annotation>
</xsd:element>
</xsd:sequence>
<xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
<xsd:attribute name="width" type="xsd:decimal" use="optional"/>
<xsd:attribute name="height" type="xsd:decimal" use="optional"/>
<xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional">
  <xsd:annotation>
    <xsd:documentation>Used to identify the order of execution. Also used to identify one special
block if there are several blocks with the same name.</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="globalId" type="xsd:ID" use="optional" />
</xsd:complexType>
</xsd:element>

```

attribute **commonObjects/vendorElement/@localId**

type	xsd:unsignedLong
properties	isRef 0 use required
source	<xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>

attribute **commonObjects/vendorElement/@width**

type	xsd:decimal
properties	isRef 0 use optional
source	<xsd:attribute name="width" type="xsd:decimal" use="optional"/>

attribute **commonObjects/vendorElement/@height**

type	xsd:decimal
------	--------------------

properties	isRef 0 use optional
source	<code><xsd:attribute name="height" type="xsd:decimal" use="optional"/></code>

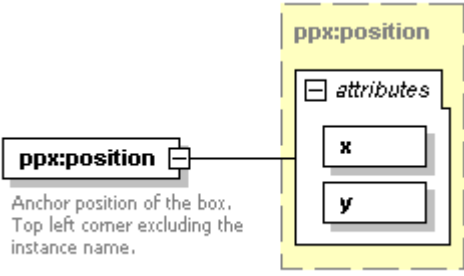
attribute `commonObjects/vendorElement/@executionOrderId`

type	xsd:unsignedLong
properties	isRef 0 use optional
annotation	documentation Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.
source	<code><xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"> <xsd:annotation> <xsd:documentation>Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.</xsd:documentation> </xsd:annotation> </xsd:attribute></code>

attribute `commonObjects/vendorElement/@globalId`

properties	isRef 0 use optional
source	<code><xsd:attribute name="globalId" type="xsd:ID" use="optional" /></code>

element `commonObjects/vendorElement/position`

diagram																			
namespace	<code>http://www.plcopen.org/xml/tc6_0201</code>																		
type	ppx:position																		
properties	isRef 0 content complex																		
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td><code>x</code></td> <td>xsd:decimal</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td><code>y</code></td> <td>xsd:decimal</td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	<code>x</code>	xsd:decimal	required				<code>y</code>	xsd:decimal	required			
Name	Type	Use	Default	Fixed	annotation														
<code>x</code>	xsd:decimal	required																	
<code>y</code>	xsd:decimal	required																	
annotation	documentation Anchor position of the box. Top left corner excluding the instance name.																		
source	<code><xsd:element name="position" type="ppx:position"> <xsd:annotation> <xsd:documentation>Anchor position of the box. Top left corner excluding the instance name.</xsd:documentation> </xsd:annotation></code>																		

	<code></xsd:element></code>
--	-----------------------------------

element **commonObjects/vendorElement/alternativeText**

diagram	<p>An alternative text to be displayed in generic representation of unknown elements.</p>
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 content complex
annotation	documentation An alternative text to be displayed in generic representation of unknown elements.
source	<pre> <xsd:element name="alternativeText" type="ppx:formattedText"> <xsd:annotation> <xsd:documentation>An alternative text to be displayed in generic representation of unknown elements.</xsd:documentation> </xsd:annotation> </xsd:element> </pre>

element **commonObjects/vendorElement/inputVariables**

diagram	<p>The list of used input variables (consumers)</p>
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:variable
annotation	documentation The list of used input variables (consumers)
source	<pre> <xsd:element name="inputVariables" minOccurs="0"> <xsd:annotation> <xsd:documentation>The list of used input variables (consumers)</xsd:documentation> </xsd:annotation> <xsd:complexType> <xsd:sequence> <xsd:element name="variable" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Describes an inputVariable of a Function or a FunctionBlock</xsd:documentation> </xsd:annotation> </xsd:complexType> </xsd:element> </xsd:sequence> <xsd:element name="connectionPointIn" type="ppx:connectionPointIn"/> </xsd:complexType> </xsd:element> </pre>

```

<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
</xsd:sequence>
<xsd:attribute name="formalParameter" type="xsd:string" use="required"/>
<xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>
<xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/>
<xsd:attribute name="storage" type="ppx:storageModifierType" use="optional"
default="none"/>
<xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>

```

element **commonObjects/vendorElement/inputVariables/variable**

diagram																																					
namespace	http://www.plcopen.org/xml/tc6_0201																																				
properties	isRef 0 minOcc 0 maxOcc unbounded content complex																																				
children	ppx:connectionPointIn ppx:documentation																																				
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>formalParameter</td> <td>xsd:string</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>negated</td> <td>xsd:boolean</td> <td>optional</td> <td>false</td> <td></td> <td></td> </tr> <tr> <td>edge</td> <td>ppx:edgeModifierType</td> <td>optional</td> <td>none</td> <td></td> <td></td> </tr> <tr> <td>storage</td> <td>ppx:storageModifierType</td> <td>optional</td> <td>none</td> <td></td> <td></td> </tr> <tr> <td>hidden</td> <td>xsd:boolean</td> <td>optional</td> <td>false</td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	formalParameter	xsd:string	required				negated	xsd:boolean	optional	false			edge	ppx:edgeModifierType	optional	none			storage	ppx:storageModifierType	optional	none			hidden	xsd:boolean	optional	false		
Name	Type	Use	Default	Fixed	annotation																																
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edge	ppx:edgeModifierType	optional	none																																		
storage	ppx:storageModifierType	optional	none																																		
hidden	xsd:boolean	optional	false																																		
source	<xsd:element name="variable" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Describes an inputVariable of a Function or a FunctionBlock</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="connectionPointIn" type="ppx:connectionPointIn"/>																																				

	<pre> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="formalParameter" type="xsd:string" use="required"/> <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/> <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/> <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional" default="none"/> <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/> </xsd:complexType> </xsd:element> </pre>
--	---

attribute **commonObjects/vendorElement/inputVariables/variable/@formalParameter**

type	xsd:string
properties	isRef 0 use required
source	<code><xsd:attribute name="formalParameter" type="xsd:string" use="required"/></code>

attribute **commonObjects/vendorElement/inputVariables/variable/@negated**

type	xsd:boolean
properties	isRef 0 default false use optional
source	<code><xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/></code>

attribute **commonObjects/vendorElement/inputVariables/variable/@edge**

type	ppx:edgeModifierType
properties	isRef 0 default none use optional
facets	enumeration none enumeration falling enumeration rising
source	<code><xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/></code>

attribute **commonObjects/vendorElement/inputVariables/variable/@storage**

type	ppx:storageModifierType
properties	isRef 0 default none use optional
facets	enumeration none enumeration set enumeration reset
source	<code><xsd:attribute name="storage" type="ppx:storageModifierType" use="optional" default="none"/></code>

attribute **commonObjects/vendorElement/inputVariables/variable/@hidden**

type	xsd:boolean
properties	isRef 0

	default false use optional
source	<code><xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/></code>

element **commonObjects/vendorElement/inputVariables/variable/connectionPointIn**

diagram													
namespace	http://www.plcopen.org/xml/tc6_0201												
type	ppx:connectionPointIn												
properties	isRef 0 content complex												
children	ppx:relPosition ppx:connection ppx:expression ppx:addData												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation								
globalId	xsd:ID	optional											
source	<code><xsd:element name="connectionPointIn" type="ppx:connectionPointIn"/></code>												

element **commonObjects/vendorElement/inputVariables/variable/documentation**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText

properties	isRef 0 minOcc 0 maxOcc 1 content complex
source	<code><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></code>

element commonObjects/vendorElement/inOutVariables

diagram	<p>The list of used inOut variables</p> <p>0..∞</p>
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:variable
annotation	documentation The list of used inOut variables
source	<pre> <xsd:element name="inOutVariables" minOccurs="0"> <xsd:annotation> <xsd:documentation>The list of used inOut variables</xsd:documentation> </xsd:annotation> <xsd:complexType> <xsd:sequence> <xsd:element name="variable" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Describes a inOutVariable of a Function or a FunctionBlock</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/> <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="formalParameter" type="xsd:string" use="required"/> <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/> <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/> <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional" default="none"/> <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/> </xsd:complexType> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element> </pre>

element **commonObjects/vendorElement/inOutVariables/variable**

diagram																																					
namespace	http://www.plcopen.org/xml/tc6_0201																																				
properties	<table border="0"> <tr><td>isRef</td><td>0</td></tr> <tr><td>minOcc</td><td>0</td></tr> <tr><td>maxOcc</td><td>unbounded</td></tr> <tr><td>content</td><td>complex</td></tr> </table>	isRef	0	minOcc	0	maxOcc	unbounded	content	complex																												
isRef	0																																				
minOcc	0																																				
maxOcc	unbounded																																				
content	complex																																				
children	ppx:connectionPointIn ppx:connectionPointOut ppx:documentation																																				
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>formalParameter</td> <td>xsd:string</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>negated</td> <td>xsd:boolean</td> <td>optional</td> <td>false</td> <td></td> <td></td> </tr> <tr> <td>edge</td> <td>ppx:edgeModifierType</td> <td>optional</td> <td>none</td> <td></td> <td></td> </tr> <tr> <td>storage</td> <td>ppx:storageModifierType</td> <td>optional</td> <td>none</td> <td></td> <td></td> </tr> <tr> <td>hidden</td> <td>xsd:boolean</td> <td>optional</td> <td>false</td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	formalParameter	xsd:string	required				negated	xsd:boolean	optional	false			edge	ppx:edgeModifierType	optional	none			storage	ppx:storageModifierType	optional	none			hidden	xsd:boolean	optional	false		
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source	<pre> <xsd:element name="variable" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Describes a inOutVariable of a Function or a FunctionBlock</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/> <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="formalParameter" type="xsd:string" use="required"/> <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/> <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/> <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional" default="none"/> <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/> </xsd:complexType> </xsd:element> </pre>																																				

attribute **commonObjects/vendorElement/inOutVariables/variable/@formalParameter**

type	xsd:string
properties	isRef 0 use required
source	<code><xsd:attribute name="formalParameter" type="xsd:string" use="required"/></code>

attribute **commonObjects/vendorElement/inOutVariables/variable/@negated**

type	xsd:boolean
properties	isRef 0 default false use optional
source	<code><xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/></code>

attribute **commonObjects/vendorElement/inOutVariables/variable/@edge**

type	ppx:edgeModifierType
properties	isRef 0 default none use optional
facets	enumeration none enumeration falling enumeration rising
source	<code><xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/></code>

attribute **commonObjects/vendorElement/inOutVariables/variable/@storage**

type	ppx:storageModifierType
properties	isRef 0 default none use optional
facets	enumeration none enumeration set enumeration reset
source	<code><xsd:attribute name="storage" type="ppx:storageModifierType" use="optional" default="none"/></code>

attribute **commonObjects/vendorElement/inOutVariables/variable/@hidden**

type	xsd:boolean
properties	isRef 0 default false use optional
source	<code><xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/></code>

element **commonObjects/vendorElement/inOutVariables/variable/connectionPointIn**

<p>diagram</p>													
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>												
<p>type</p>	<p>ppx:connectionPointIn</p>												
<p>properties</p>	<p>isRef 0 minOcc 0 maxOcc 1 content complex</p>												
<p>children</p>	<p>ppx:relPosition ppx:connection ppx:expression ppx:addData</p>												
<p>attributes</p>	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation								
globalId	xsd:ID	optional											
<p>source</p>	<pre><xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/></pre>												

element **commonObjects/vendorElement/inOutVariables/variable/connectionPointOut**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:connectionPointOut					
properties	isRef	0	minOcc	0	maxOcc	1
content	complex					
children	ppx:relPosition ppx:expression ppx:addData					
attributes	Name	Type	Use	Default	Fixed	annotation
	globalId	xsd:ID	optional			
source	<code><xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/></code>					

element **commonObjects/vendorElement/inOutVariables/variable/documentation**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:formattedText					
properties	isRef	0	minOcc	0	maxOcc	1
content	complex					
source	<code><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></code>					

element **commonObjects/vendorElement/outputVariables**

diagram	<p>The list of used output variables (producers)</p> <p>0..∞</p>
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:variable
annotation	documentation The list of used output variables (producers)
source	<pre> <xsd:element name="outputVariables" minOccurs="0"> <xsd:annotation> <xsd:documentation>The list of used output variables (producers)</xsd:documentation> </xsd:annotation> <xsd:complexType> <xsd:sequence> <xsd:element name="variable" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Describes a outputVariable of a Function or a FunctionBlock</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="formalParameter" type="xsd:string" use="required"/> <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/> <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/> <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional" default="none"/> <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/> </xsd:complexType> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element> </pre>

element **commonObjects/vendorElement/outputVariables/variable**

diagram								
namespace	http://www.plcopen.org/xml/tc6_0201							
properties	isRef	0	minOcc	0	maxOcc	unbounded	content	complex
children	ppx:connectionPointOut ppx:documentation							
attributes	Name	Type	Use	Default	Fixed	annotation		
	formalParameter	xsd:string	required					
	negated	xsd:boolean	optional	false				
	edge	ppx:edgeModifierType	optional	none				
	storage	ppx:storageModifierType	optional	none				
	hidden	xsd:boolean	optional	false				
source	<pre><xsd:element name="variable" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Describes a outputVariable of a Function or a FunctionBlock</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="formalParameter" type="xsd:string" use="required"/> <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/> <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/> <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional" default="none"/> <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/> </xsd:complexType> </xsd:element></pre>							

attribute **commonObjects/vendorElement/outputVariables/variable/@formalParameter**

type	xsd:string
properties	isRef 0 use required

source	<xsd:attribute name="formalParameter" type="xsd:string" use="required"/>
--------	--

attribute **commonObjects/vendorElement/outputVariables/variable/@negated**

type	xsd:boolean
properties	isRef 0 default false use optional
source	<xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>

attribute **commonObjects/vendorElement/outputVariables/variable/@edge**

type	ppx:edgeModifierType
properties	isRef 0 default none use optional
facets	enumeration none enumeration falling enumeration rising
source	<xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/>

attribute **commonObjects/vendorElement/outputVariables/variable/@storage**

type	ppx:storageModifierType
properties	isRef 0 default none use optional
facets	enumeration none enumeration set enumeration reset
source	<xsd:attribute name="storage" type="ppx:storageModifierType" use="optional" default="none"/>

attribute **commonObjects/vendorElement/outputVariables/variable/@hidden**

type	xsd:boolean
properties	isRef 0 default false use optional
source	<xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/>

element **commonObjects/vendorElement/outputVariables/variable/connectionPointOut**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:connectionPointOut					
properties	isRef	0	minOcc	0	maxOcc	1
	content	complex				
children	ppx:relPosition ppx:expression ppx:addData					
attributes	Name	Type	Use	Default	Fixed	annotation
	globalId	xsd:ID	optional			
source	<code><xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/></code>					

element **commonObjects/vendorElement/outputVariables/variable/documentation**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:formattedText					
properties	isRef	0	minOcc	0	maxOcc	1
	content	complex				
source	<code><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></code>					

element `commonObjects/vendorElement/addData`

diagram	<p>Additional, vendor specific data for the element. Also defines the vendor specific meaning of the element.</p>
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	isRef 0 content complex
children	ppx:data
annotation	documentation Additional, vendor specific data for the element. Also defines the vendor specific meaning of the element.
source	<pre> <xsd:element name="addData" type="ppx:addData"> <xsd:annotation> <xsd:documentation>Additional, vendor specific data for the element. Also defines the vendor specific meaning of the element.</xsd:documentation> </xsd:annotation> </xsd:element> </pre>

group `derivedTypes`

diagram	<p>Collection of derived IEC 61131-3 datatypes</p> <p>Reference to a user defined datatype or POU. Variable declarations use this type to declare e.g. function block instances.</p>
namespace	http://www.plcopen.org/xml/tc6_0201
children	ppx:array ppx:derived ppx:enum ppx:struct ppx:subrangeSigned ppx:subrangeUnsigned
used by	complexType dataType
annotation	documentation Collection of derived IEC 61131-3 datatypes
source	<pre> <xsd:group name="derivedTypes"> <xsd:annotation> <xsd:documentation>Collection of derived IEC 61131-3 datatypes</xsd:documentation> </xsd:annotation> <xsd:choice> </pre>

```

<xsd:element name="array">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="dimension" type="ppx:rangeSigned" maxOccurs="unbounded"/>
      <xsd:element name="baseType" type="ppx:dataType"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="derived">
  <xsd:annotation>
    <xsd:documentation>Reference to a user defined datatype or POU. Variable declarations use
this type to declare e.g. function block instances.</xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:annotation>
      <xsd:documentation>The user defined alias type</xsd:documentation>
    </xsd:annotation>
    <xsd:sequence>
      <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute name="name" type="xsd:string" use="required"/>
  </xsd:complexType>
</xsd:element>
<xsd:element name="enum">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="values">
        <xsd:complexType>
          <xsd:sequence maxOccurs="unbounded">
            <xsd:element name="value">
              <xsd:complexType>
                <xsd:annotation>
                  <xsd:documentation>An enumeration value used to build up enumeration
types</xsd:documentation>
                </xsd:annotation>
                <xsd:attribute name="name" type="xsd:string" use="required"/>
                <xsd:attribute name="value" type="xsd:string" use="optional"/>
              </xsd:complexType>
            </xsd:element>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>
  <xsd:element name="baseType" type="ppx:dataType" minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="struct" type="ppx:varListPlain"/>
<xsd:element name="subrangeSigned">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="range" type="ppx:rangeSigned"/>
      <xsd:element name="baseType" type="ppx:dataType"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="subrangeUnsigned">

```

```

<xsd:complexType>
  <xsd:sequence>
    <xsd:element name="range" type="ppx:rangeUnsigned"/>
    <xsd:element name="baseType" type="ppx:dataType"/>
  </xsd:sequence>
</xsd:complexType>
</xsd:element>
</xsd:choice>
</xsd:group>

```

element **derivedTypes/array**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0 content complex
children	ppx:dimension ppx:baseType
source	<pre> <xsd:element name="array"> <xsd:complexType> <xsd:sequence> <xsd:element name="dimension" type="ppx:rangeSigned" maxOccurs="unbounded"/> <xsd:element name="baseType" type="ppx:dataType"/> </xsd:sequence> </xsd:complexType> </xsd:element> </pre>

element **derivedTypes/array/dimension**

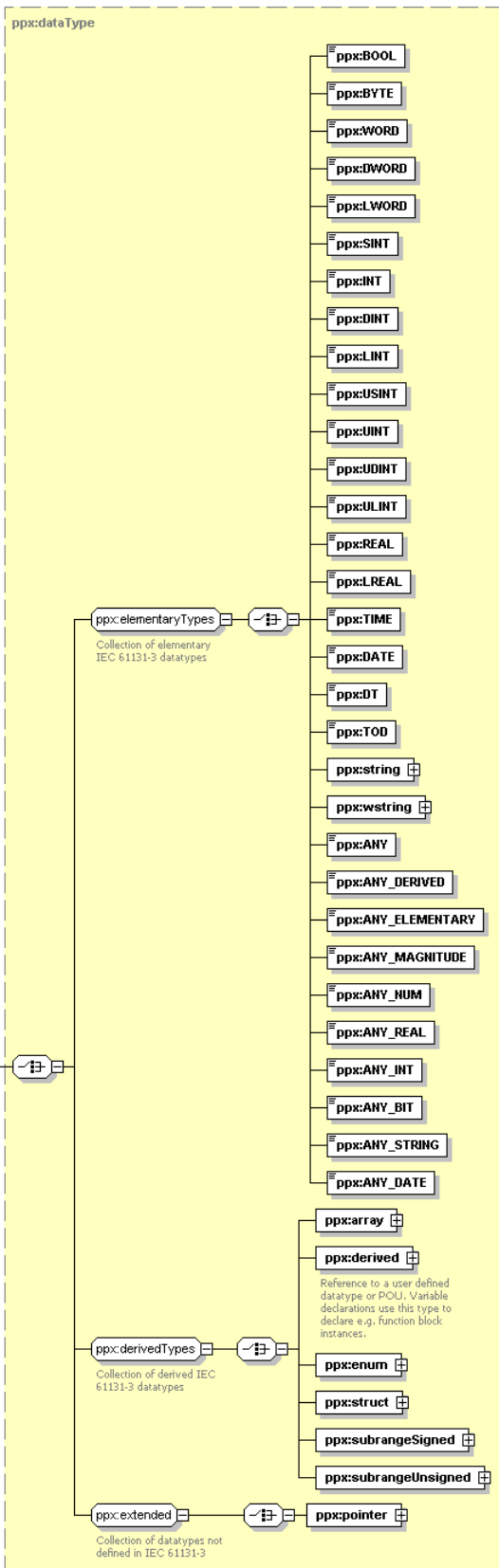
diagram																			
namespace	http://www.plcopen.org/xml/tc6_0201																		
type	ppx:rangeSigned																		
properties	isRef 0 minOcc 1 maxOcc unbounded content complex																		
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>lower</td> <td>xsd:string</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>upper</td> <td>xsd:string</td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	lower	xsd:string	required				upper	xsd:string	required			
Name	Type	Use	Default	Fixed	annotation														
lower	xsd:string	required																	
upper	xsd:string	required																	

source

```
<xsd:element name="dimension" type="ppx:rangeSigned" maxOccurs="unbounded"/>
```

element derivedTypes/array/baseType

diagram



namespace	http://www.plcopen.org/xml/tc6_0201
type	pplx:dataType
properties	isRef 0 content complex
children	pplx:BOOL pplx:BYTE pplx:WORD pplx:DWORD pplx:LWORD pplx:SINT pplx:INT pplx:DINT pplx:LINT pplx:USINT pplx:UINT pplx:UDINT pplx:ULINT pplx:REAL pplx:LREAL pplx:TIME pplx:DATE pplx:DT pplx:TOD pplx:string pplx:wstring pplx:ANY pplx:ANY_DERIVED pplx:ANY_ELEMENTARY pplx:ANY_MAGNITUDE pplx:ANY_NUM pplx:ANY_REAL pplx:ANY_INT pplx:ANY_BIT pplx:ANY_STRING pplx:ANY_DATE pplx:array pplx:derived pplx:enum pplx:struct pplx:subrangeSigned pplx:subrangeUnsigned pplx:pointer
source	<xsd:element name="baseType" type="pplx:dataType"/>

element derivedTypes/derived

diagram	<p>Reference to a user defined datatype or POU. Variable declarations use this type to declare e.g. function block instances.</p>												
namespace	http://www.plcopen.org/xml/tc6_0201												
properties	isRef 0 content complex												
children	pplx:addData												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>name</td> <td>xsd:string</td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	name	xsd:string	required			
Name	Type	Use	Default	Fixed	annotation								
name	xsd:string	required											
annotation	documentation Reference to a user defined datatype or POU. Variable declarations use this type to declare e.g. function block instances.												
source	<pre><xsd:element name="derived"> <xsd:annotation> <xsd:documentation>Reference to a user defined datatype or POU. Variable declarations use this type to declare e.g. function block instances.</xsd:documentation> </xsd:annotation> <xsd:complexType> <xsd:annotation> <xsd:documentation>The user defined alias type</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="addData" type="pplx:addData" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="name" type="xsd:string" use="required"/> </xsd:complexType> </xsd:element></pre>												

attribute derivedTypes/derived/@name

type	xsd:string
properties	isRef 0 use required

source	<code><xsd:attribute name="name" type="xsd:string" use="required"/></code>
--------	--

element derivedTypes/derived/addData

diagram									
namespace	http://www.plcopen.org/xml/tc6_0201								
type	ppx:addData								
properties	<table border="0"> <tr><td>isRef</td><td>0</td></tr> <tr><td>minOcc</td><td>0</td></tr> <tr><td>maxOcc</td><td>1</td></tr> <tr><td>content</td><td>complex</td></tr> </table>	isRef	0	minOcc	0	maxOcc	1	content	complex
isRef	0								
minOcc	0								
maxOcc	1								
content	complex								
children	ppx:data								
source	<code><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></code>								

element derivedTypes/enum

diagram					
namespace	http://www.plcopen.org/xml/tc6_0201				
properties	<table border="0"> <tr><td>isRef</td><td>0</td></tr> <tr><td>content</td><td>complex</td></tr> </table>	isRef	0	content	complex
isRef	0				
content	complex				
children	ppx:values ppx:baseType				
source	<pre> <xsd:element name="enum"> <xsd:complexType> <xsd:sequence> <xsd:element name="values"> <xsd:complexType> <xsd:sequence maxOccurs="unbounded"> <xsd:element name="value"> <xsd:complexType> <xsd:annotation> <xsd:documentation>An enumeration value used to build up enumeration types</xsd:documentation> </xsd:annotation> <xsd:attribute name="name" type="xsd:string" use="required"/> <xsd:attribute name="value" type="xsd:string" use="optional"/> </xsd:complexType> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element> </xsd:sequence> </xsd:complexType> <xsd:element name="baseType" type="ppx:dataType" minOccurs="0"/> </xsd:sequence> </pre>				

	<pre></xsd:complexType> </xsd:element></pre>
--	--

element derivedTypes/enum/values

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0 content complex
children	ppx:value
source	<pre><xsd:element name="values"> <xsd:complexType> <xsd:sequence maxOccurs="unbounded"> <xsd:element name="value"> <xsd:complexType> <xsd:annotation> <xsd:documentation>An enumeration value used to build up enumeration types</xsd:documentation> </xsd:annotation> <xsd:attribute name="name" type="xsd:string" use="required"/> <xsd:attribute name="value" type="xsd:string" use="optional"/> </xsd:complexType> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element></pre>

element derivedTypes/enum/values/value

diagram																			
namespace	http://www.plcopen.org/xml/tc6_0201																		
properties	isRef 0 content complex																		
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>name</td> <td>xsd:string</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>value</td> <td>xsd:string</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	name	xsd:string	required				value	xsd:string	optional			
Name	Type	Use	Default	Fixed	annotation														
name	xsd:string	required																	
value	xsd:string	optional																	
source	<pre><xsd:element name="value"> <xsd:complexType> <xsd:annotation> <xsd:documentation>An enumeration value used to build up enumeration types</xsd:documentation> </xsd:annotation> <xsd:attribute name="name" type="xsd:string" use="required"/></pre>																		

	<pre><xsd:attribute name="value" type="xsd:string" use="optional"/> </xsd:complexType> </xsd:element></pre>
--	---

attribute **derivedTypes/enum/values/value/@name**

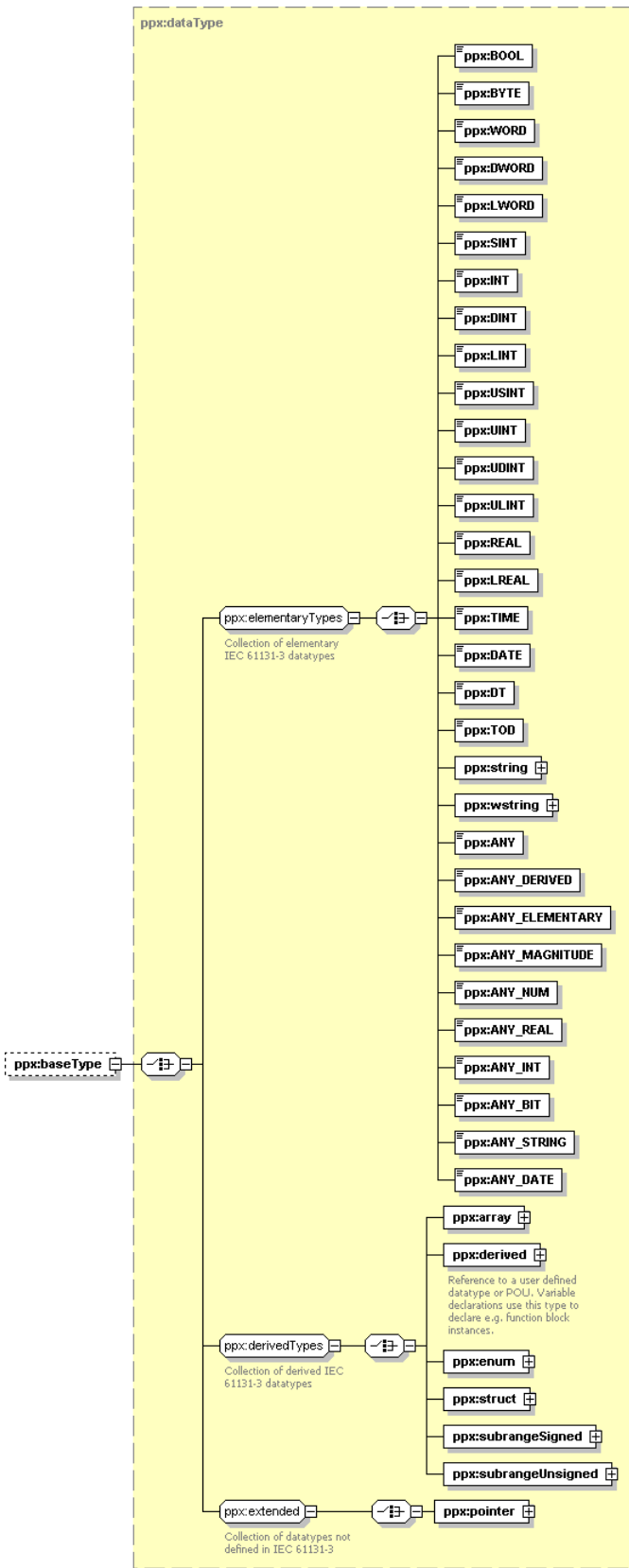
type	xsd:string
properties	isRef 0 use required
source	<pre><xsd:attribute name="name" type="xsd:string" use="required"/></pre>

attribute **derivedTypes/enum/values/value/@value**

type	xsd:string
properties	isRef 0 use optional
source	<pre><xsd:attribute name="value" type="xsd:string" use="optional"/></pre>

element derivedTypes/enum/baseType

diagram



namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:dataType
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:BOOL ppx:BYTE ppx:WORD ppx:DWORD ppx:LWORD ppx:SINT ppx:INT ppx:DINT ppx:LINT ppx:USINT ppx:UINT ppx:UDINT ppx:ULINT ppx:REAL ppx:LREAL ppx:TIME ppx:DATE ppx:DT ppx:TOD ppx:string ppx:wstring ppx:ANY ppx:ANY DERIVED ppx:ANY ELEMENTARY ppx:ANY MAGNITUDE ppx:ANY NUM ppx:ANY REAL ppx:ANY INT ppx:ANY BIT ppx:ANY STRING ppx:ANY DATE ppx:array ppx:derived ppx:enum ppx:struct ppx:subrangeSigned ppx:subrangeUnsigned ppx:pointer
source	<code><xsd:element name="baseType" type="ppx:dataType" minOccurs="0"/></code>

element derivedTypes/struct

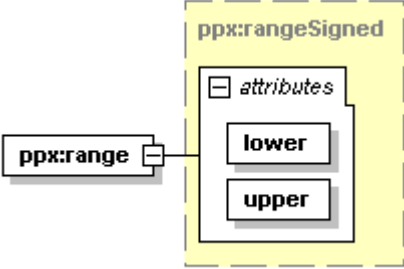
diagram	<p>The diagram illustrates the structure of the <code>ppx:struct</code> element. It is a complex type containing a sequence of three child elements: <code>ppx:variable</code>, <code>ppx:addData</code>, and <code>ppx:documentation</code>. The <code>ppx:variable</code> element has a cardinality of <code>0..∞</code>. The entire structure is enclosed in a dashed box labeled <code>ppx:varListPlain</code>.</p>
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:varListPlain
properties	isRef 0 content complex
children	ppx:variable ppx:addData ppx:documentation
source	<code><xsd:element name="struct" type="ppx:varListPlain"/></code>

element derivedTypes/subrangeSigned

diagram	<p>The diagram illustrates the structure of the <code>ppx:subrangeSigned</code> element. It is a complex type containing a sequence of two child elements: <code>ppx:range</code> and <code>ppx:baseType</code>.</p>
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0 content complex
children	ppx:range ppx:baseType
source	<pre> <xsd:element name="subrangeSigned"> <xsd:complexType> <xsd:sequence> <xsd:element name="range" type="ppx:rangeSigned"/> <xsd:element name="baseType" type="ppx:dataType"/> </xsd:sequence> </xsd:complexType> </pre>

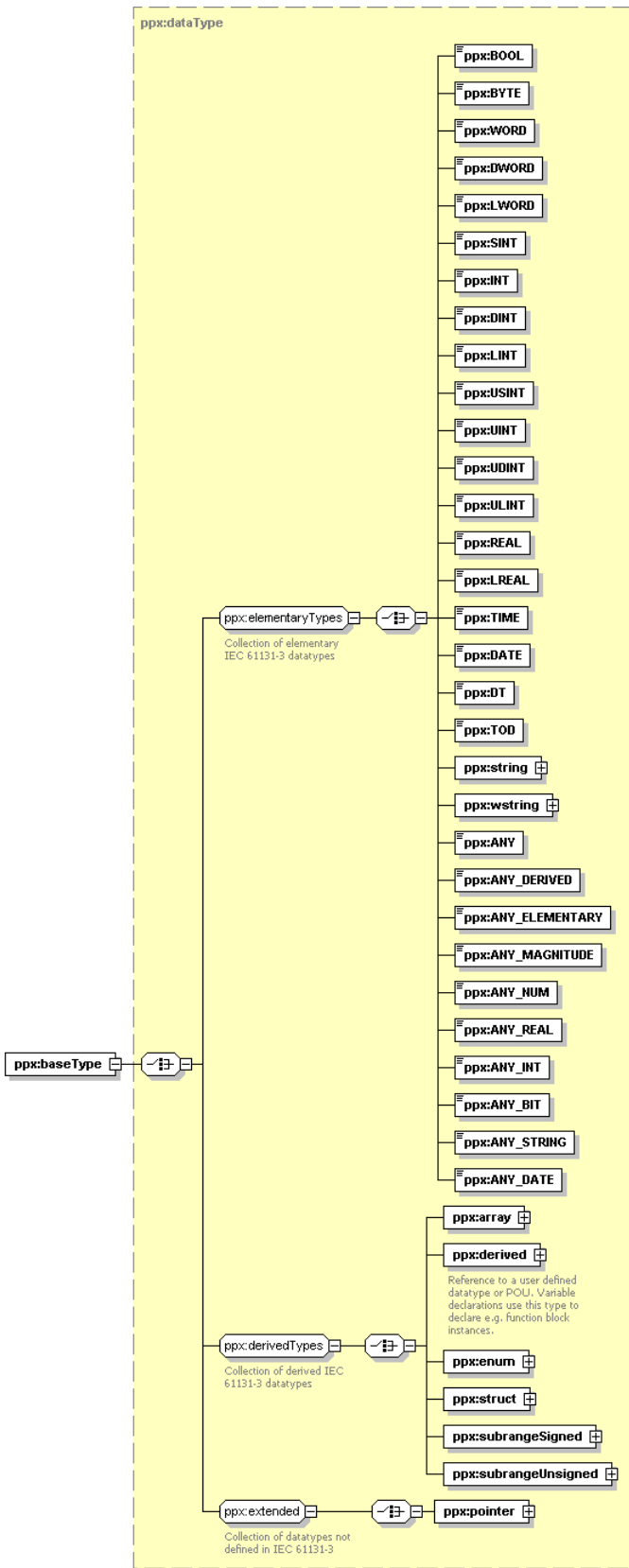
```
</xsd:element>
```

element **derivedTypes/subrangeSigned/range**

diagram	 <p>The diagram shows a class ppx:rangeSigned (highlighted in yellow) containing an attributes container with two elements: lower and upper. A separate class ppx:range is shown with a line connecting it to the attributes container, indicating a derivation relationship.</p>																		
namespace	http://www.plcopen.org/xml/tc6_0201																		
type	ppx:rangeSigned																		
properties	isRef 0 content complex																		
attributes	<table border="1"><thead><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>annotation</th></tr></thead><tbody><tr><td>lower</td><td>xsd:string</td><td>required</td><td></td><td></td><td></td></tr><tr><td>upper</td><td>xsd:string</td><td>required</td><td></td><td></td><td></td></tr></tbody></table>	Name	Type	Use	Default	Fixed	annotation	lower	xsd:string	required				upper	xsd:string	required			
Name	Type	Use	Default	Fixed	annotation														
lower	xsd:string	required																	
upper	xsd:string	required																	
source	<code><xsd:element name="range" type="ppx:rangeSigned"/></code>																		

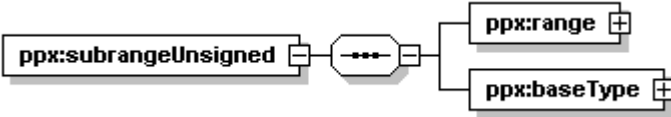
element derivedTypes/subrangeSigned/baseType

diagram

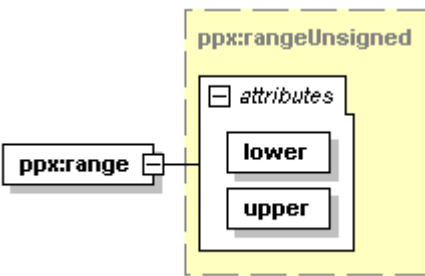


namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:dataType
properties	isRef 0 content complex
children	ppx:BOOL ppx:BYTE ppx:WORD ppx:DWORD ppx:LWORD ppx:SINT ppx:INT ppx:DINT ppx:LINT ppx:USINT ppx:UINT ppx:UDINT ppx:ULINT ppx:REAL ppx:LREAL ppx:TIME ppx:DATE ppx:DT ppx:TOD ppx:string ppx:wstring ppx:ANY ppx:ANY DERIVED ppx:ANY ELEMENTARY ppx:ANY MAGNITUDE ppx:ANY NUM ppx:ANY REAL ppx:ANY INT ppx:ANY BIT ppx:ANY STRING ppx:ANY DATE ppx:array ppx:derived ppx:enum ppx:struct ppx:subrangeSigned ppx:subrangeUnsigned ppx:pointer
source	<xsd:element name="baseType" type="ppx:dataType"/>

element derivedTypes/subrangeUnsigned

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0 content complex
children	ppx:range ppx:baseType
source	<pre> <xsd:element name="subrangeUnsigned"> <xsd:complexType> <xsd:sequence> <xsd:element name="range" type="ppx:rangeUnsigned"/> <xsd:element name="baseType" type="ppx:dataType"/> </xsd:sequence> </xsd:complexType> </xsd:element> </pre>

element derivedTypes/subrangeUnsigned/range

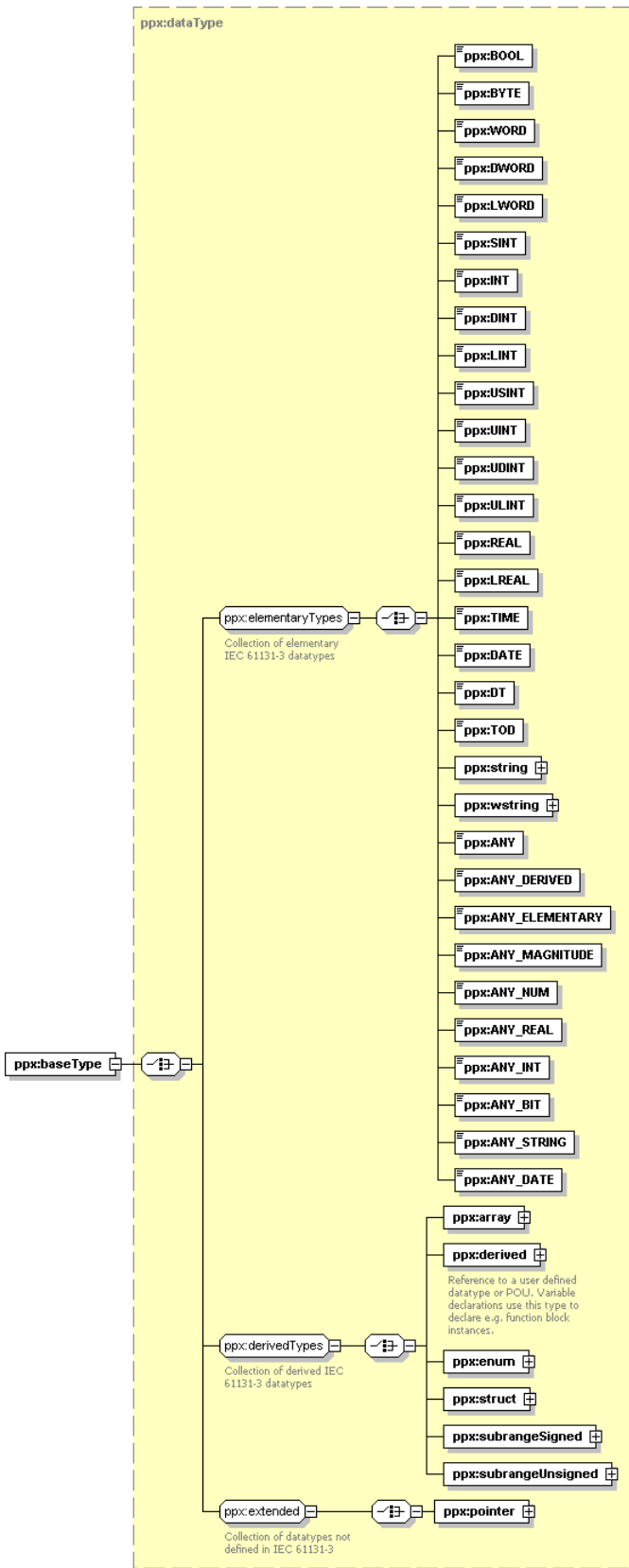
diagram																			
namespace	http://www.plcopen.org/xml/tc6_0201																		
type	ppx:rangeUnsigned																		
properties	isRef 0 content complex																		
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>lower</td> <td>xsd:string</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>upper</td> <td>xsd:string</td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	lower	xsd:string	required				upper	xsd:string	required			
Name	Type	Use	Default	Fixed	annotation														
lower	xsd:string	required																	
upper	xsd:string	required																	

source

```
<xsd:element name="range" type="ppx:rangeUnsigned"/>
```

element derivedTypes/subrangeUnsigned/baseType

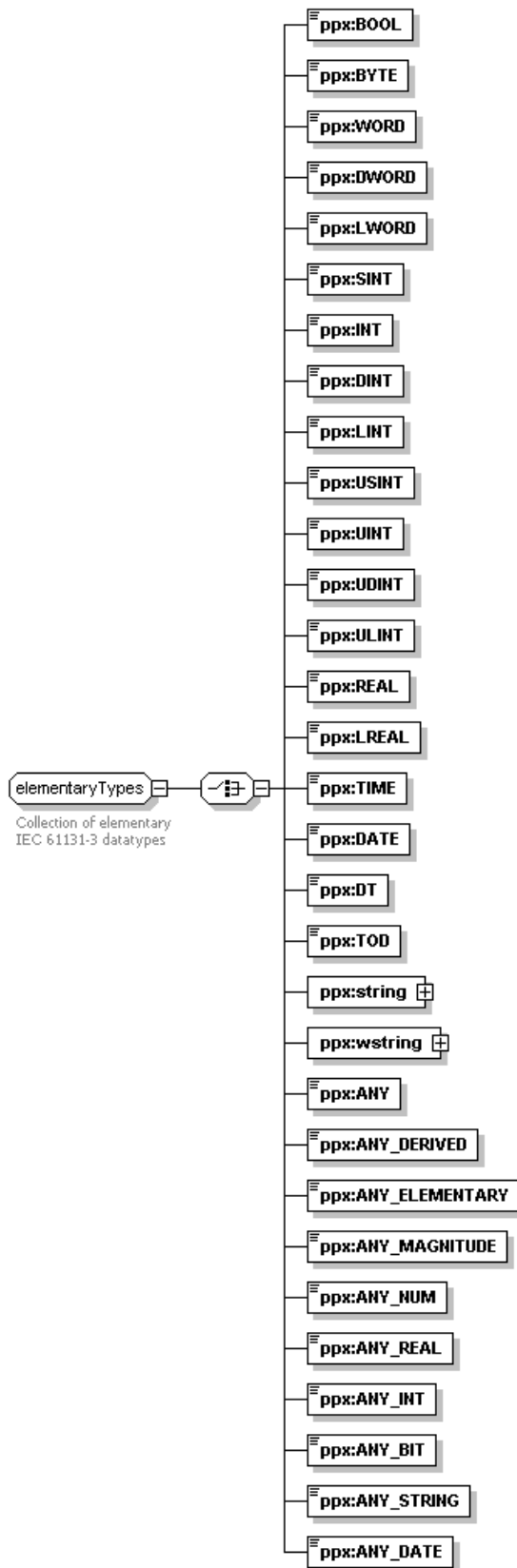
diagram



namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:dataType
properties	isRef 0 content complex
children	ppx:BOOL ppx:BYTE ppx:WORD ppx:DWORD ppx:LWORD ppx:SINT ppx:INT ppx:DINT ppx:LINT ppx:USINT ppx:UINT ppx:UDINT ppx:ULINT ppx:REAL ppx:LREAL ppx:TIME ppx:DATE ppx:DT ppx:TOD ppx:string ppx:wstring ppx:ANY ppx:ANY_DERIVED ppx:ANY_ELEMENTARY ppx:ANY_MAGNITUDE ppx:ANY_NUM ppx:ANY_REAL ppx:ANY_INT ppx:ANY_BIT ppx:ANY_STRING ppx:ANY_DATE ppx:array ppx:derived ppx:enum ppx:struct ppx:subrangeSigned ppx:subrangeUnsigned ppx:pointer
source	<xsd:element name="baseType" type="ppx:dataType"/>

group elementaryTypes

diagram



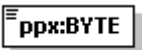
namespace	http://www.plcopen.org/xml/tc6_0201
children	ppx:BOOL ppx:BYTE ppx:WORD ppx:DWORD ppx:LWORD ppx:SINT ppx:INT ppx:DINT ppx:LINT ppx:USINT ppx:UINT ppx:UDINT ppx:ULINT ppx:REAL ppx:LREAL ppx:TIME ppx:DATE ppx:DT ppx:TOD ppx:string ppx:wstring ppx:ANY ppx:ANY_DERIVED ppx:ANY_ELEMENTARY ppx:ANY_MAGNITUDE ppx:ANY_NUM ppx:ANY_REAL ppx:ANY_INT ppx:ANY_BIT ppx:ANY_STRING ppx:ANY_DATE
used by	complexType dataType
annotation	documentation Collection of elementary IEC 61131-3 datatypes
source	<pre> <xsd:group name="elementaryTypes"> <xsd:annotation> <xsd:documentation>Collection of elementary IEC 61131-3 datatypes</xsd:documentation> </xsd:annotation> <xsd:choice> <xsd:element name="BOOL"/> <xsd:element name="BYTE"/> <xsd:element name="WORD"/> <xsd:element name="DWORD"/> <xsd:element name="LWORD"/> <xsd:element name="SINT"/> <xsd:element name="INT"/> <xsd:element name="DINT"/> <xsd:element name="LINT"/> <xsd:element name="USINT"/> <xsd:element name="UINT"/> <xsd:element name="UDINT"/> <xsd:element name="ULINT"/> <xsd:element name="REAL"/> <xsd:element name="LREAL"/> <xsd:element name="TIME"/> <xsd:element name="DATE"/> <xsd:element name="DT"/> <xsd:element name="TOD"/> <xsd:element name="string"> <xsd:complexType> <xsd:annotation> <xsd:documentation>The single byte character string type</xsd:documentation> </xsd:annotation> <xsd:attribute name="length" type="xsd:string" use="optional"/> </xsd:complexType> </xsd:element> <xsd:element name="wstring"> <xsd:complexType> <xsd:annotation> <xsd:documentation>The wide character (WORD) string type</xsd:documentation> </xsd:annotation> <xsd:attribute name="length" type="xsd:string" use="optional"/> </xsd:complexType> </xsd:element> <xsd:element name="ANY"/> <xsd:element name="ANY_DERIVED"/> <xsd:element name="ANY_ELEMENTARY"/> <xsd:element name="ANY_MAGNITUDE"/> <xsd:element name="ANY_NUM"/> <xsd:element name="ANY_REAL"/> <xsd:element name="ANY_INT"/> </pre>

	<pre> <xsd:element name="ANY_BIT"/> <xsd:element name="ANY_STRING"/> <xsd:element name="ANY_DATE"/> </xsd:choice> </xsd:group> </pre>
--	---

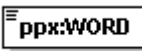
element elementaryTypes/BOOL

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="BOOL"/>

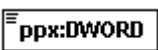
element elementaryTypes/BYTE

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="BYTE"/>

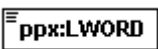
element elementaryTypes/WORD

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="WORD"/>

element elementaryTypes/DWORD

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="DWORD"/>

element elementaryTypes/LWORD


diagram	
---------	---

namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="LWORD"/>


element elementaryTypes/SINT

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="SINT"/>


element elementaryTypes/INT

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="INT"/>

element elementaryTypes/DINT

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="DINT"/>

element elementaryTypes/LINT


diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="LINT"/>

element elementaryTypes/USINT

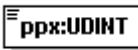
diagram	
---------	---

namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="USINT"/>

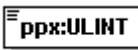
element elementaryTypes/UINT

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="UINT"/>

element elementaryTypes/UDINT

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="UDINT"/>

element elementaryTypes/ULINT

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="ULINT"/>

element elementaryTypes/REAL


diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="REAL"/>

element elementaryTypes/LREAL

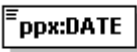
diagram	
---------	---

namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="LREAL"/>


element elementaryTypes/TIME

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="TIME"/>

element elementaryTypes/DATE

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="DATE"/>

element elementaryTypes/DT

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="DT"/>

element elementaryTypes/TOD

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="TOD"/>

element elementaryTypes/string

diagram	<p>The diagram shows a box labeled 'ppx:string' connected to a larger box labeled 'attributes'. Inside the 'attributes' box, there is a dashed-line box labeled 'length', indicating that 'length' is an optional attribute of the 'ppx:string' element.</p>					
namespace	http://www.plcopen.org/xml/tc6_0201					
properties	isRef	0	content	complex		
attributes	Name	Type	Use	Default	Fixed	annotation
	length	xsd:string	optional			
source	<pre><xsd:element name="string"> <xsd:complexType> <xsd:annotation> <xsd:documentation>The single byte character string type</xsd:documentation> </xsd:annotation> <xsd:attribute name="length" type="xsd:string" use="optional"/> </xsd:complexType> </xsd:element></pre>					

attribute elementaryTypes/string/@length

type	xsd:string
properties	isRef 0 use optional
source	<pre><xsd:attribute name="length" type="xsd:string" use="optional"/></pre>

element elementaryTypes/wstring


diagram	<p>The diagram shows a box labeled 'ppx:wstring' connected to a larger box labeled 'attributes'. Inside the 'attributes' box, there is a dashed-line box labeled 'length', indicating that 'length' is an optional attribute of the 'ppx:wstring' element.</p>					
namespace	http://www.plcopen.org/xml/tc6_0201					
properties	isRef	0	content	complex		
attributes	Name	Type	Use	Default	Fixed	annotation
	length	xsd:string	optional			
source	<pre><xsd:element name="wstring"> <xsd:complexType> <xsd:annotation> <xsd:documentation>The wide character (WORD) string type</xsd:documentation> </xsd:annotation> <xsd:attribute name="length" type="xsd:string" use="optional"/> </xsd:complexType> </xsd:element></pre>					

attribute elementaryTypes/wstring/@length


type	xsd:string
------	-------------------

properties	isRef 0 use optional
source	<xsd:attribute name="length" type="xsd:string" use="optional"/>


element elementaryTypes/ANY

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="ANY"/>


element elementaryTypes/ANY_DERIVED

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="ANY_DERIVED"/>


element elementaryTypes/ANY_ELEMENTARY

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="ANY_ELEMENTARY"/>

element elementaryTypes/ANY_MAGNITUDE


diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="ANY_MAGNITUDE"/>

element elementaryTypes/ANY_NUM


diagram	
namespace	http://www.plcopen.org/xml/tc6_0201

properties	isRef 0
source	<xsd:element name="ANY_NUM"/>


element elementaryTypes/ANY_REAL

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="ANY_REAL"/>


element elementaryTypes/ANY_INT

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="ANY_INT"/>

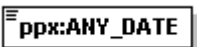
element elementaryTypes/ANY_BIT

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="ANY_BIT"/>

element elementaryTypes/ANY_STRING

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0
source	<xsd:element name="ANY_STRING"/>

element elementaryTypes/ANY_DATE

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201

properties	isRef 0
source	<xsd:element name="ANY_DATE"/>

group extended

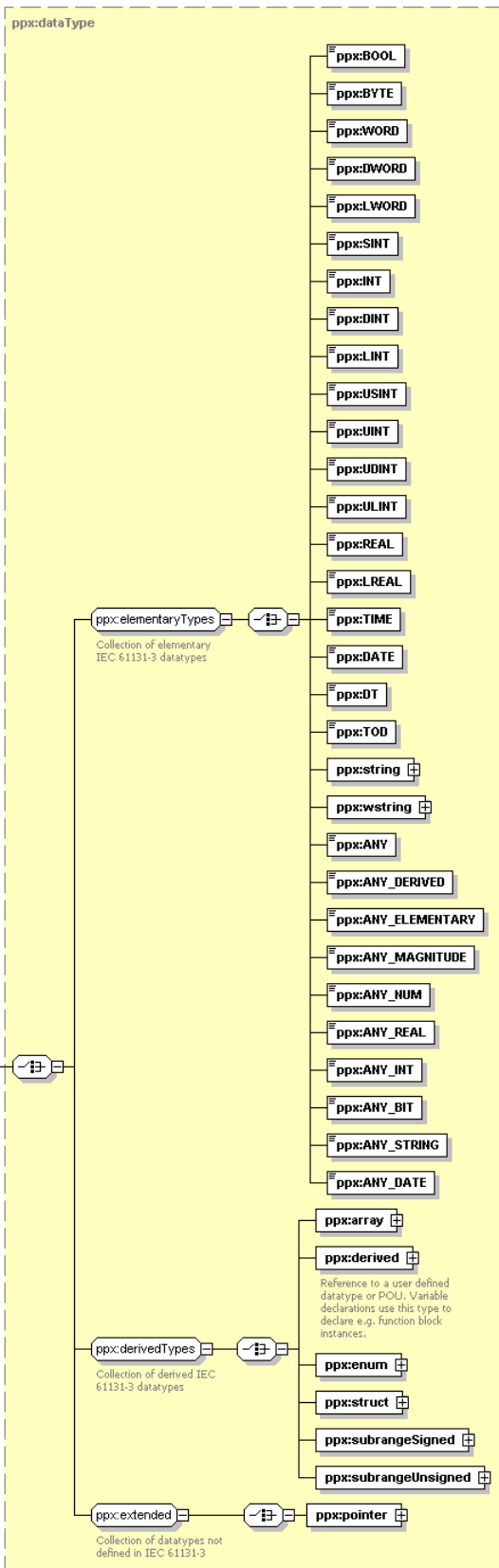
diagram	<p>Collection of datatypes not defined in IEC 61131-3</p>
namespace	http://www.plcopen.org/xml/tc6_0201
children	ppx:pointer
used by	complexType dataType
annotation	documentation Collection of datatypes not defined in IEC 61131-3
source	<pre><xsd:group name="extended"> <xsd:annotation> <xsd:documentation>Collection of datatypes not defined in IEC 61131-3</xsd:documentation> </xsd:annotation> <xsd:choice> <xsd:element name="pointer"> <xsd:complexType> <xsd:sequence> <xsd:element name="baseType" type="ppx:dataType"/> </xsd:sequence> </xsd:complexType> </xsd:element> </xsd:choice> </xsd:group></pre>

element extended/pointer

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0 content complex
children	ppx:baseType
source	<pre><xsd:element name="pointer"> <xsd:complexType> <xsd:sequence> <xsd:element name="baseType" type="ppx:dataType"/> </xsd:sequence> </xsd:complexType> </xsd:element></pre>

element extended/pointer/baseType

diagram



namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:dataType
properties	isRef 0 content complex
children	ppx:BOOL ppx:BYTE ppx:WORD ppx:DWORD ppx:LWORD ppx:SINT ppx:INT ppx:DINT ppx:LINT ppx:USINT ppx:UINT ppx:UDINT ppx:ULINT ppx:REAL ppx:LREAL ppx:TIME ppx:DATE ppx:DT ppx:TOD ppx:string ppx:wstring ppx:ANY ppx:ANY_DERIVED ppx:ANY_ELEMENTARY ppx:ANY_MAGNITUDE ppx:ANY_NUM ppx:ANY_REAL ppx:ANY_INT ppx:ANY_BIT ppx:ANY_STRING ppx:ANY_DATE ppx:array ppx:derived ppx:enum ppx:struct ppx:subrangeSigned ppx:subrangeUnsigned ppx:pointer
source	<xsd:element name="baseType" type="ppx:dataType"/>

group fbdObjects

diagram	<p>Collection of objects which are defined in fbd. They can be used in all graphical bodies.</p>
namespace	http://www.plcopen.org/xml/tc6_0201
children	ppx:block ppx:inVariable ppx:outVariable ppx:inOutVariable ppx:label ppx:jump ppx:return
used by	elements body/FBD body/LD body/SFC
annotation	documentation Collection of objects which are defined in fbd. They can be used in all graphical bodies.
source	<pre> <xsd:group name="fbdObjects"> <xsd:annotation> <xsd:documentation>Collection of objects which are defined in fbd. They can be used in all graphical bodies.</xsd:documentation> </xsd:annotation> <xsd:choice> <xsd:element name="block"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Describes a graphical object representing a call statement</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="position" type="ppx:position"> <xsd:annotation> </pre>


```

    <xsd:documentation>Anchor position of the box. Top left corner excluding the instance
name.</xsd:documentation>
  </xsd:annotation>
</xsd:element>
<xsd:element name="inputVariables">
  <xsd:annotation>
    <xsd:documentation>The list of used input variables (consumers)</xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="variable" minOccurs="0" maxOccurs="unbounded">
        <xsd:complexType>
          <xsd:annotation>
            <xsd:documentation>Describes an inputVariable of a Function or a
FunctionBlock</xsd:documentation>
          </xsd:annotation>
          <xsd:sequence>
            <xsd:element name="connectionPointIn" type="ppx:connectionPointIn"/>
            <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
          </xsd:sequence>
          <xsd:attribute name="formalParameter" type="xsd:string" use="required"/>
          <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>
          <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional"
default="none"/>
          <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional"
default="none"/>
          <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/>
        </xsd:complexType>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:element name="inOutVariables">
  <xsd:annotation>
    <xsd:documentation>The list of used inOut variables</xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="variable" minOccurs="0" maxOccurs="unbounded">
        <xsd:complexType>
          <xsd:annotation>
            <xsd:documentation>Describes a inOutVariable of a Function or a
FunctionBlock</xsd:documentation>
          </xsd:annotation>
          <xsd:sequence>
            <xsd:element name="connectionPointIn" type="ppx:connectionPointIn"
minOccurs="0"/>
            <xsd:element name="connectionPointOut" type="ppx:connectionPointOut"
minOccurs="0"/>
            <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
          </xsd:sequence>
          <xsd:attribute name="formalParameter" type="xsd:string" use="required"/>
          <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>
          <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional"
default="none"/>
          <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional"

```

```

default="none"/>
  <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="outputVariables">
  <xsd:annotation>
    <xsd:documentation>The list of used output variables (producers)</xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="variable" minOccurs="0" maxOccurs="unbounded">
        <xsd:complexType>
          <xsd:annotation>
            <xsd:documentation>Describes a outputVariable of a Function or a
FunctionBlock</xsd:documentation>
          </xsd:annotation>
          <xsd:sequence>
            <xsd:element name="connectionPointOut" type="ppx:connectionPointOut"
minOccurs="0"/>
            <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
          </xsd:sequence>
          <xsd:attribute name="formalParameter" type="xsd:string" use="required"/>
          <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>
          <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional"
default="none"/>
          <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional"
default="none"/>
        </xsd:complexType>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>
  </xsd:element>
  <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
  <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
</xsd:sequence>
<xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
<xsd:attribute name="width" type="xsd:decimal" use="optional"/>
<xsd:attribute name="height" type="xsd:decimal" use="optional"/>
<xsd:attribute name="typeName" type="xsd:string" use="required"/>
<xsd:attribute name="instanceName" type="xsd:string" use="optional"/>
<xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/>
  <xsd:annotation>
    <xsd:documentation>Used to identify the order of execution. Also used to identify one
special block if there are several blocks with the same name.</xsd:documentation>
  </xsd:annotation>
  </xsd:attribute>
  <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>
</xsd:element>
<xsd:element name="inVariable">
  <xsd:annotation>
    <xsd:documentation>Expression used as producer</xsd:documentation>
  </xsd:annotation>

```

```

</xsd:annotation>
<xsd:complexType>
  <xsd:annotation>
    <xsd:documentation>Describes a graphical object representing a variable, literal or
expression used as r-value</xsd:documentation>
  </xsd:annotation>
  <xsd:sequence>
    <xsd:element name="position" type="ppx:position"/>
    <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/>
    <xsd:element name="expression" type="xsd:string">
      <xsd:annotation>
        <xsd:documentation>The operand is a valid iec variable e.g.
avar[0].</xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
    <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
  <xsd:attribute name="height" type="xsd:decimal" use="optional"/>
  <xsd:attribute name="width" type="xsd:decimal" use="optional"/>
  <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/>
  <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>
  <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/>
  <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional"
default="none"/>
  <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>
</xsd:element>
<xsd:element name="outVariable">
  <xsd:annotation>
    <xsd:documentation>Expression used as consumer</xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:annotation>
      <xsd:documentation>Describes a graphical object representing a variable or expression
used as l-value</xsd:documentation>
    </xsd:annotation>
    <xsd:sequence>
      <xsd:element name="position" type="ppx:position"/>
      <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/>
      <xsd:element name="expression" type="xsd:string">
        <xsd:annotation>
          <xsd:documentation>The operand is a valid iec variable e.g.
avar[0].</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
      <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
    <xsd:attribute name="height" type="xsd:decimal" use="optional"/>
    <xsd:attribute name="width" type="xsd:decimal" use="optional"/>
    <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/>
    <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>
    <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/>

```

```

    <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional"
default="none"/>
    <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
  </xsd:complexType>
</xsd:element>
<xsd:element name="inOutVariable">
  <xsd:annotation>
    <xsd:documentation>Expression used as producer and consumer</xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:annotation>
      <xsd:documentation>Describes a graphical object representing a variable which can be used
as l-value and r-value at the same time</xsd:documentation>
    </xsd:annotation>
    <xsd:sequence>
      <xsd:element name="position" type="ppx:position"/>
      <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/>
      <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/>
      <xsd:element name="expression" type="xsd:string">
        <xsd:annotation>
          <xsd:documentation>The operand is a valid iec variable e.g.
avar[0].</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
      <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
    <xsd:attribute name="height" type="xsd:decimal" use="optional"/>
    <xsd:attribute name="width" type="xsd:decimal" use="optional"/>
    <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/>
    <xsd:attribute name="negatedIn" type="xsd:boolean" use="optional" default="false"/>
    <xsd:attribute name="edgeIn" type="ppx:edgeModifierType" use="optional" default="none"/>
    <xsd:attribute name="storageIn" type="ppx:storageModifierType" use="optional"
default="none"/>
    <xsd:attribute name="negatedOut" type="xsd:boolean" use="optional" default="false"/>
    <xsd:attribute name="edgeOut" type="ppx:edgeModifierType" use="optional" default="none"/>
    <xsd:attribute name="storageOut" type="ppx:storageModifierType" use="optional"
default="none"/>
    <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
  </xsd:complexType>
</xsd:element>
<xsd:element name="label">
  <xsd:complexType>
    <xsd:annotation>
      <xsd:documentation>Describes a graphical object representing a jump
label</xsd:documentation>
    </xsd:annotation>
    <xsd:sequence>
      <xsd:element name="position" type="ppx:position"/>
      <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
      <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
    <xsd:attribute name="height" type="xsd:decimal" use="optional"/>
    <xsd:attribute name="width" type="xsd:decimal" use="optional"/>

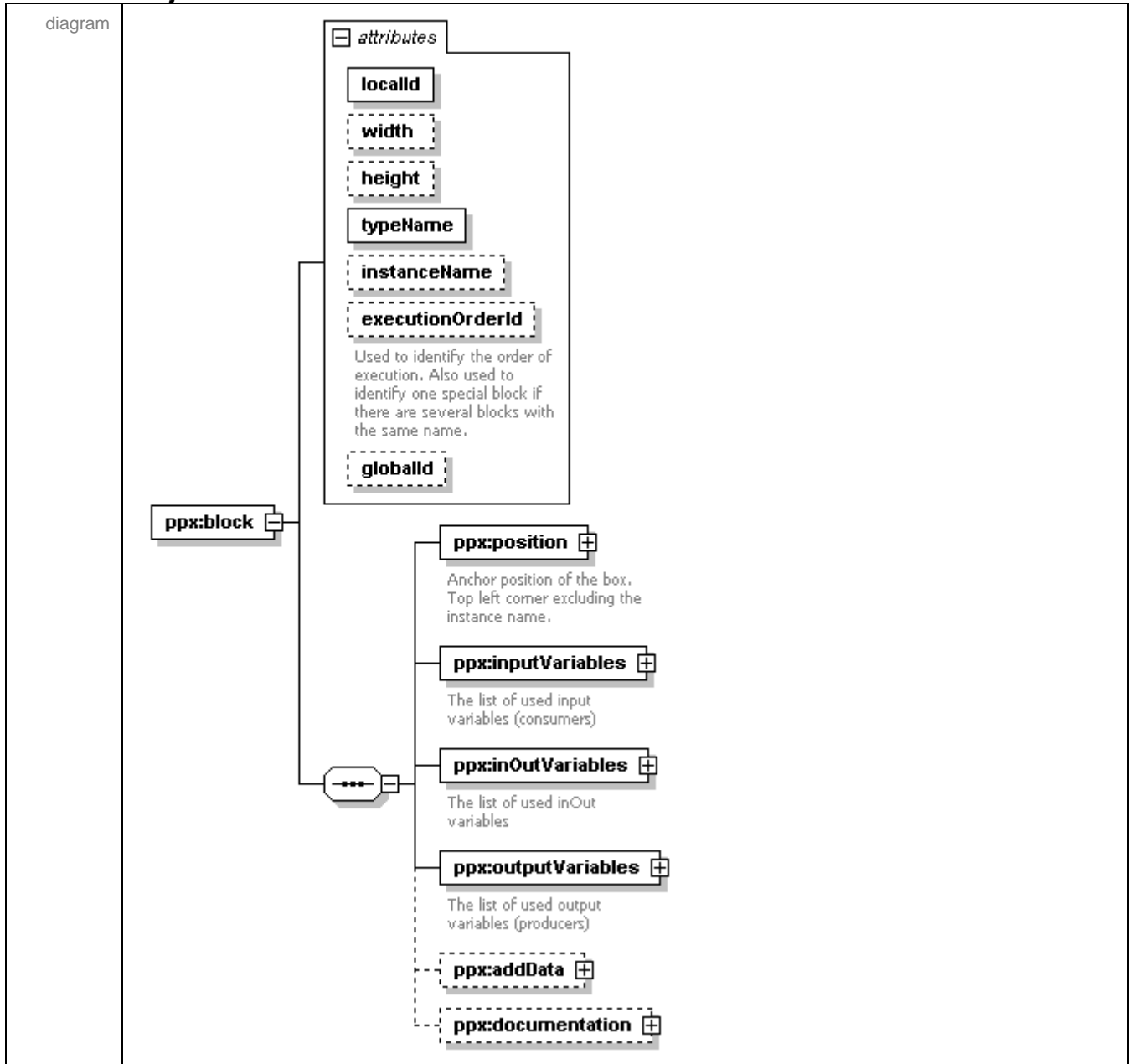
```

```

<xsd:attribute name="label" type="xsd:string" use="required"/>
<xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/>
<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>
</xsd:element>
<xsd:element name="jump">
<xsd:complexType>
<xsd:annotation>
<xsd:documentation>Describes a graphical object representing a jump
statement</xsd:documentation>
</xsd:annotation>
<xsd:sequence>
<xsd:element name="position" type="ppx:position"/>
<xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/>
<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
</xsd:sequence>
<xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
<xsd:attribute name="height" type="xsd:decimal" use="optional"/>
<xsd:attribute name="width" type="xsd:decimal" use="optional"/>
<xsd:attribute name="label" type="xsd:string" use="required"/>
<xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/>
<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>
</xsd:element>
<xsd:element name="return">
<xsd:complexType>
<xsd:annotation>
<xsd:documentation>Describes a graphical object representing a return
statement</xsd:documentation>
</xsd:annotation>
<xsd:sequence>
<xsd:element name="position" type="ppx:position"/>
<xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/>
<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
</xsd:sequence>
<xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
<xsd:attribute name="height" type="xsd:decimal" use="optional"/>
<xsd:attribute name="width" type="xsd:decimal" use="optional"/>
<xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/>
<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>
</xsd:element>
</xsd:choice>
</xsd:group>

```

element **fbObjects/block**



namespace http://www.plcopen.org/xml/tc6_0201

properties isRef 0
content complex

children [ppx:position](#) [ppx:inputVariables](#) [ppx:inOutVariables](#) [ppx:outputVariables](#) [ppx:addData](#) [ppx:documentation](#)

attributes	Name	Type	Use	Default	Fixed	annotation
	localId	xsd:unsignedLong	required			
	width	xsd:decimal	optional			
	height	xsd:decimal	optional			
	typeName	xsd:string	required			
	instanceName	xsd:string	optional			
	executionOrderId	xsd:unsignedLong	optional			documentation Used to identify the

	<p>globalId xsd:ID optional</p>	<p>order of execution. Also used to identify one special block if there are several blocks with the same name.</p>
<p>source</p>	<pre> <xsd:element name="block"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Describes a graphical object representing a call statement</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="position" type="ppx:position"> <xsd:annotation> <xsd:documentation>Anchor position of the box. Top left corner excluding the instance name.</xsd:documentation> </xsd:annotation> </xsd:element> <xsd:element name="inputVariables"> <xsd:annotation> <xsd:documentation>The list of used input variables (consumers)</xsd:documentation> </xsd:annotation> <xsd:complexType> <xsd:sequence> <xsd:element name="variable" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Describes an inputVariable of a Function or a FunctionBlock</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="connectionPointIn" type="ppx:connectionPointIn"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="formalParameter" type="xsd:string" use="required"/> <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/> <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/> <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional" default="none"/> <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/> </xsd:complexType> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element> <xsd:element name="inOutVariables"> <xsd:annotation> <xsd:documentation>The list of used inOut variables</xsd:documentation> </xsd:annotation> <xsd:complexType> <xsd:sequence> </pre>	

```

<xsd:element name="variable" minOccurs="0" maxOccurs="unbounded">
  <xsd:complexType>
    <xsd:annotation>
      <xsd:documentation>Describes a inOutVariable of a Function or a
FunctionBlock</xsd:documentation>
    </xsd:annotation>
    <xsd:sequence>
      <xsd:element name="connectionPointIn" type="ppx:connectionPointIn"
minOccurs="0"/>
      <xsd:element name="connectionPointOut" type="ppx:connectionPointOut"
minOccurs="0"/>
      <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute name="formalParameter" type="xsd:string" use="required"/>
    <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>
    <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional"
default="none"/>
    <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional"
default="none"/>
    <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/>
  </xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="outputVariables">
  <xsd:annotation>
    <xsd:documentation>The list of used output variables (producers)</xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="variable" minOccurs="0" maxOccurs="unbounded">
        <xsd:complexType>
          <xsd:annotation>
            <xsd:documentation>Describes a outputVariable of a Function or a
FunctionBlock</xsd:documentation>
          </xsd:annotation>
          <xsd:sequence>
            <xsd:element name="connectionPointOut" type="ppx:connectionPointOut"
minOccurs="0"/>
            <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
          </xsd:sequence>
          <xsd:attribute name="formalParameter" type="xsd:string" use="required"/>
          <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>
          <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional"
default="none"/>
          <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional"
default="none"/>
          <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/>
        </xsd:complexType>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>
  <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
  <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>

```


	<pre> </xsd:sequence> <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/> <xsd:attribute name="width" type="xsd:decimal" use="optional"/> <xsd:attribute name="height" type="xsd:decimal" use="optional"/> <xsd:attribute name="typeName" type="xsd:string" use="required"/> <xsd:attribute name="instanceName" type="xsd:string" use="optional"/> <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"> <xsd:annotation> <xsd:documentation>Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.</xsd:documentation> </xsd:annotation> </xsd:attribute> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </pre>
--	---

attribute fbdObjects/block/@localId

type	xsd:unsignedLong
properties	isRef 0 use required
source	<code><xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/></code>

attribute fbdObjects/block/@width

type	xsd:decimal
properties	isRef 0 use optional
source	<code><xsd:attribute name="width" type="xsd:decimal" use="optional"/></code>

attribute fbdObjects/block/@height

type	xsd:decimal
properties	isRef 0 use optional
source	<code><xsd:attribute name="height" type="xsd:decimal" use="optional"/></code>

attribute fbdObjects/block/@typeName

type	xsd:string
properties	isRef 0 use required
source	<code><xsd:attribute name="typeName" type="xsd:string" use="required"/></code>

attribute fbdObjects/block/@instanceName

type	xsd:string
properties	isRef 0 use optional

source	<code><xsd:attribute name="instanceName" type="xsd:string" use="optional"/></code>
--------	--

attribute `fbObjects/block/@executionOrderId`

type	<code>xsd:unsignedLong</code>
properties	isRef 0 use optional
annotation	documentation Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.
source	<code><xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"> <xsd:annotation> <xsd:documentation>Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.</xsd:documentation> </xsd:annotation> </xsd:attribute></code>

attribute `fbObjects/block/@globalId`

type	<code>xsd:ID</code>
properties	isRef 0 use optional
source	<code><xsd:attribute name="globalId" type="xsd:ID" use="optional"/></code>

element `fbObjects/block/position`

diagram	<p>Anchor position of the box. Top left corner excluding the instance name.</p>																		
namespace	<code>http://www.plcopen.org/xml/tc6_0201</code>																		
type	<code>ppx:position</code>																		
properties	isRef 0 content complex																		
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td><code>x</code></td> <td><code>xsd:decimal</code></td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td><code>y</code></td> <td><code>xsd:decimal</code></td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	<code>x</code>	<code>xsd:decimal</code>	required				<code>y</code>	<code>xsd:decimal</code>	required			
Name	Type	Use	Default	Fixed	annotation														
<code>x</code>	<code>xsd:decimal</code>	required																	
<code>y</code>	<code>xsd:decimal</code>	required																	
annotation	documentation Anchor position of the box. Top left corner excluding the instance name.																		
source	<code><xsd:element name="position" type="ppx:position"> <xsd:annotation> <xsd:documentation>Anchor position of the box. Top left corner excluding the instance name.</xsd:documentation> </xsd:annotation> </xsd:element></code>																		

element fbdObjects/block/inputVariables

diagram	<p>The list of used input variables (consumers)</p> <p>0..∞</p>
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0 content complex
children	ppx:variable
annotation	documentation The list of used input variables (consumers)
source	<pre> <xsd:element name="inputVariables"> <xsd:annotation> <xsd:documentation>The list of used input variables (consumers)</xsd:documentation> </xsd:annotation> <xsd:complexType> <xsd:sequence> <xsd:element name="variable" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Describes an inputVariable of a Function or a FunctionBlock</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="connectionPointIn" type="ppx:connectionPointIn"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="formalParameter" type="xsd:string" use="required"/> <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/> <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/> <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional" default="none"/> <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/> </xsd:complexType> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element> </pre>

element **fbdObjects/block/inputVariables/variable**

diagram								
namespace	http://www.plcopen.org/xml/tc6_0201							
properties	isRef	0	minOcc	0	maxOcc	unbounded	content	complex
children	ppx:connectionPointIn ppx:documentation							
attributes	Name	Type	Use	Default	Fixed	annotation		
	formalParameter	xsd:string	required					
	negated	xsd:boolean	optional	false				
	edge	ppx:edgeModifierType	optional	none				
	storage	ppx:storageModifierType	optional	none				
	hidden	xsd:boolean	optional	false				
source	<pre> <xsd:element name="variable" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Describes an inputVariable of a Function or a FunctionBlock</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="connectionPointIn" type="ppx:connectionPointIn"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="formalParameter" type="xsd:string" use="required"/> <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/> <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/> <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional" default="none"/> <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/> </xsd:complexType> </xsd:element> </pre>							

attribute **fbdObjects/block/inputVariables/variable/@formalParameter**

type	xsd:string
properties	isRef 0 use required

source	<xsd:attribute name="formalParameter" type="xsd:string" use="required"/>
--------	--

attribute **fbObjects/block/inputVariables/variable/@negated**

type	xsd:boolean
properties	isRef 0 default false use optional
source	<xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>

attribute **fbObjects/block/inputVariables/variable/@edge**

type	ppx:edgeModifierType
properties	isRef 0 default none use optional
facets	enumeration none enumeration falling enumeration rising
source	<xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/>

attribute **fbObjects/block/inputVariables/variable/@storage**

type	ppx:storageModifierType
properties	isRef 0 default none use optional
facets	enumeration none enumeration set enumeration reset
source	<xsd:attribute name="storage" type="ppx:storageModifierType" use="optional" default="none"/>

attribute **fbObjects/block/inputVariables/variable/@hidden**

type	xsd:boolean
properties	isRef 0 default false use optional
source	<xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/>

element **fbdObjects/block/inputVariables/variable/connectionPointIn**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:connectionPointIn					
properties	isRef	0	content	complex		
children	ppx:relPosition ppx:connection ppx:expression ppx:addData					
attributes	Name	Type	Use	Default	Fixed	annotation
	globalId	xsd:ID	optional			
source	<code><xsd:element name="connectionPointIn" type="ppx:connectionPointIn"/></code>					

element **fbdObjects/block/inputVariables/variable/documentation**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:formattedText					
properties	isRef	0	minOcc	0	maxOcc	1
	content	complex				
source	<code><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></code>					

element fbdObjects/block/inOutVariables

diagram	<p>The list of used inOut variables</p> <p>0..∞</p>
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0 content complex
children	ppx:variable
annotation	documentation The list of used inOut variables
source	<pre> <xsd:element name="inOutVariables"> <xsd:annotation> <xsd:documentation>The list of used inOut variables</xsd:documentation> </xsd:annotation> <xsd:complexType> <xsd:sequence> <xsd:element name="variable" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Describes a inOutVariable of a Function or a FunctionBlock</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/> <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="formalParameter" type="xsd:string" use="required"/> <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/> <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/> <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional" default="none"/> <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/> </xsd:complexType> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element> </pre>

element **fbdObjects/block/inOutVariables/variable**

diagram																																					
namespace	http://www.plcopen.org/xml/tc6_0201																																				
properties	<table border="0"> <tr><td>isRef</td><td>0</td></tr> <tr><td>minOcc</td><td>0</td></tr> <tr><td>maxOcc</td><td>unbounded</td></tr> <tr><td>content</td><td>complex</td></tr> </table>	isRef	0	minOcc	0	maxOcc	unbounded	content	complex																												
isRef	0																																				
minOcc	0																																				
maxOcc	unbounded																																				
content	complex																																				
children	ppx:connectionPointIn ppx:connectionPointOut ppx:documentation																																				
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>formalParameter</td> <td>xsd:string</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>negated</td> <td>xsd:boolean</td> <td>optional</td> <td>false</td> <td></td> <td></td> </tr> <tr> <td>edge</td> <td>ppx:edgeModifierType</td> <td>optional</td> <td>none</td> <td></td> <td></td> </tr> <tr> <td>storage</td> <td>ppx:storageModifierType</td> <td>optional</td> <td>none</td> <td></td> <td></td> </tr> <tr> <td>hidden</td> <td>xsd:boolean</td> <td>optional</td> <td>false</td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	formalParameter	xsd:string	required				negated	xsd:boolean	optional	false			edge	ppx:edgeModifierType	optional	none			storage	ppx:storageModifierType	optional	none			hidden	xsd:boolean	optional	false		
Name	Type	Use	Default	Fixed	annotation																																
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source	<pre><xsd:element name="variable" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Describes a inOutVariable of a Function or a FunctionBlock</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/> <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="formalParameter" type="xsd:string" use="required"/> <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/> <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/> <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional" default="none"/> <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/> </xsd:complexType> </xsd:element></pre>																																				

attribute **fbdObjects/block/inOutVariables/variable/@formalParameter**

type	xsd:string
properties	isRef 0 use required
source	<code><xsd:attribute name="formalParameter" type="xsd:string" use="required"/></code>

attribute **fbdObjects/block/inOutVariables/variable/@negated**

type	xsd:boolean
properties	isRef 0 default false use optional
source	<code><xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/></code>

attribute **fbdObjects/block/inOutVariables/variable/@edge**

type	ppx:edgeModifierType
properties	isRef 0 default none use optional
facets	enumeration none enumeration falling enumeration rising
source	<code><xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/></code>

attribute **fbdObjects/block/inOutVariables/variable/@storage**

type	ppx:storageModifierType
properties	isRef 0 default none use optional
facets	enumeration none enumeration set enumeration reset
source	<code><xsd:attribute name="storage" type="ppx:storageModifierType" use="optional" default="none"/></code>

attribute **fbdObjects/block/inOutVariables/variable/@hidden**

type	xsd:boolean
properties	isRef 0 default false use optional
source	<code><xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/></code>

element **fbdObjects/block/inOutVariables/variable/connectionPointIn**

<p>diagram</p>													
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>												
<p>type</p>	<p>ppx:connectionPointIn</p>												
<p>properties</p>	<p>isRef 0 minOcc 0 maxOcc 1 content complex</p>												
<p>children</p>	<p>ppx:relPosition ppx:connection ppx:expression ppx:addData</p>												
<p>attributes</p>	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation								
globalId	xsd:ID	optional											
<p>source</p>	<pre><xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/></pre>												

element **fbdObjects/block/inOutVariables/variable/connectionPointOut**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:connectionPointOut					
properties	isRef	0	minOcc	0	maxOcc	1
	content	complex				
children	ppx:relPosition ppx:expression ppx:addData					
attributes	Name	Type	Use	Default	Fixed	annotation
	globalId	xsd:ID	optional			
source	<code><xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/></code>					

element **fbdObjects/block/inOutVariables/variable/documentation**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:formattedText					
properties	isRef	0	minOcc	0	maxOcc	1
	content	complex				
source	<code><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></code>					

element `fbObjects/block/outputVariables`

diagram	<p>The list of used output variables (producers)</p> <p>0..∞</p>
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0 content complex
children	ppx:variable
annotation	documentation The list of used output variables (producers)
source	<pre> <xsd:element name="outputVariables"> <xsd:annotation> <xsd:documentation>The list of used output variables (producers)</xsd:documentation> </xsd:annotation> <xsd:complexType> <xsd:sequence> <xsd:element name="variable" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Describes a outputVariable of a Function or a FunctionBlock</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="formalParameter" type="xsd:string" use="required"/> <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/> <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/> <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional" default="none"/> <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/> </xsd:complexType> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element> </pre>

element **fbObjects/block/outputVariables/variable**

diagram																																					
namespace	http://www.plcopen.org/xml/tc6_0201																																				
properties	<table border="0"> <tr><td>isRef</td><td>0</td></tr> <tr><td>minOcc</td><td>0</td></tr> <tr><td>maxOcc</td><td>unbounded</td></tr> <tr><td>content</td><td>complex</td></tr> </table>	isRef	0	minOcc	0	maxOcc	unbounded	content	complex																												
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Name	Type	Use	Default	Fixed	annotation																																
formalParameter	xsd:string	required																																			
negated	xsd:boolean	optional	false																																		
edge	ppx:edgeModifierType	optional	none																																		
storage	ppx:storageModifierType	optional	none																																		
hidden	xsd:boolean	optional	false																																		
source	<pre><xsd:element name="variable" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Describes a outputVariable of a Function or a FunctionBlock</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="formalParameter" type="xsd:string" use="required"/> <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/> <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/> <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional" default="none"/> <xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/> </xsd:complexType> </xsd:element></pre>																																				

attribute **fbObjects/block/outputVariables/variable/@formalParameter**

type	xsd:string				
properties	<table border="0"> <tr><td>isRef</td><td>0</td></tr> <tr><td>use</td><td>required</td></tr> </table>	isRef	0	use	required
isRef	0				
use	required				

source	<xsd:attribute name="formalParameter" type="xsd:string" use="required"/>
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attribute **fbObjects/block/outputVariables/variable/@negated**

type	xsd:boolean
properties	isRef 0 default false use optional
source	<xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>

attribute **fbObjects/block/outputVariables/variable/@edge**

type	ppx:edgeModifierType
properties	isRef 0 default none use optional
facets	enumeration none enumeration falling enumeration rising
source	<xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/>

attribute **fbObjects/block/outputVariables/variable/@storage**

type	ppx:storageModifierType
properties	isRef 0 default none use optional
facets	enumeration none enumeration set enumeration reset
source	<xsd:attribute name="storage" type="ppx:storageModifierType" use="optional" default="none"/>

attribute **fbObjects/block/outputVariables/variable/@hidden**

type	xsd:boolean
properties	isRef 0 default false use optional
source	<xsd:attribute name="hidden" type="xsd:boolean" use="optional" default="false"/>

element **fbObjects/block/outputVariables/variable/connectionPointOut**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:connectionPointOut					
properties	isRef	0	minOcc	0	maxOcc	1
	content	complex				
children	ppx:relPosition ppx:expression ppx:addData					
attributes	Name	Type	Use	Default	Fixed	annotation
	globalId	xsd:ID	optional			
source	<code><xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/></code>					

element **fbObjects/block/outputVariables/variable/documentation**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:formattedText					
properties	isRef	0	minOcc	0	maxOcc	1
	content	complex				
source	<code><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></code>					

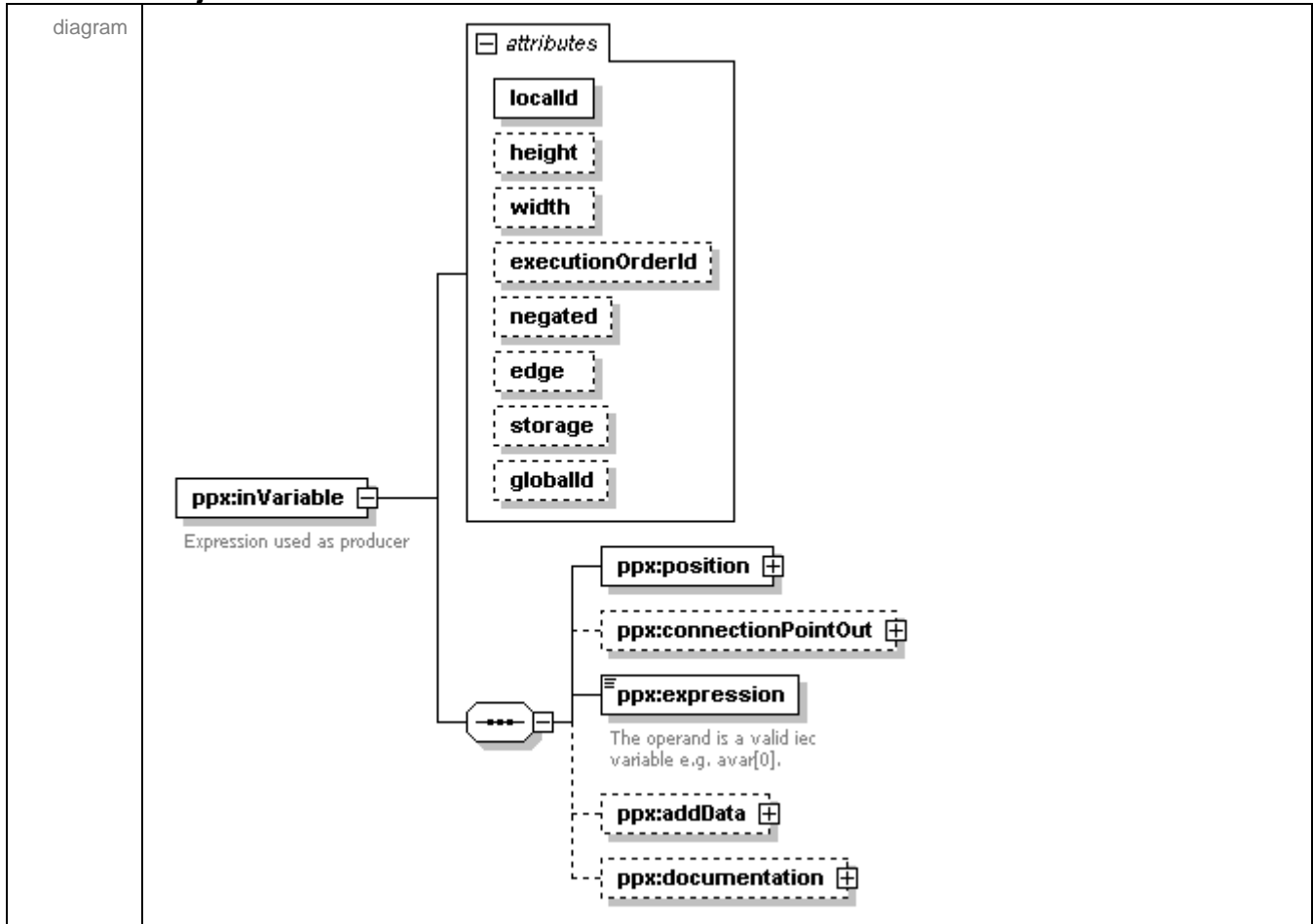
element **fbdObjects/block/addData**

diagram									
namespace	http://www.plcopen.org/xml/tc6_0201								
type	ppx:addData								
properties	<table> <tr><td>isRef</td><td>0</td></tr> <tr><td>minOcc</td><td>0</td></tr> <tr><td>maxOcc</td><td>1</td></tr> <tr><td>content</td><td>complex</td></tr> </table>	isRef	0	minOcc	0	maxOcc	1	content	complex
isRef	0								
minOcc	0								
maxOcc	1								
content	complex								
children	ppx:data								
source	<code><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></code>								

element **fbdObjects/block/documentation**

diagram									
namespace	http://www.plcopen.org/xml/tc6_0201								
type	ppx:formattedText								
properties	<table> <tr><td>isRef</td><td>0</td></tr> <tr><td>minOcc</td><td>0</td></tr> <tr><td>maxOcc</td><td>1</td></tr> <tr><td>content</td><td>complex</td></tr> </table>	isRef	0	minOcc	0	maxOcc	1	content	complex
isRef	0								
minOcc	0								
maxOcc	1								
content	complex								
source	<code><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></code>								

element **fbdObjects/inVariable**



namespace http://www.plcopen.org/xml/tc6_0201

properties isRef 0
content complex

children [ppx:position](#) [ppx:connectionPointOut](#) [ppx:expression](#) [ppx:addData](#) [ppx:documentation](#)

attributes	Name	Type	Use	Default	Fixed	annotation
	localId	xsd:unsignedLong	required			
	height	xsd:decimal	optional			
	width	xsd:decimal	optional			
	executionOrderId	xsd:unsignedLong	optional			
	negated	xsd:boolean	optional	false		
	edge	ppx:edgeModifierType	optional	none		
	storage	ppx:storageModifierType	optional	none		
	globalId	xsd:ID	optional			

annotation documentation
Expression used as producer

source

```
<xsd:element name="inVariable">
  <xsd:annotation>
    <xsd:documentation>Expression used as producer</xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:annotation>
      <xsd:documentation>Describes a graphical object representing a variable, literal or expression
    </xsd:documentation>
    
```

	<pre> used as r-value</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="position" type="ppx:position"/> <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/> <xsd:element name="expression" type="xsd:string"> <xsd:annotation> <xsd:documentation>The operand is a valid iec variable e.g. avar[0].</xsd:documentation> </xsd:annotation> </xsd:element> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/> <xsd:attribute name="height" type="xsd:decimal" use="optional"/> <xsd:attribute name="width" type="xsd:decimal" use="optional"/> <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/> <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/> <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/> <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional" default="none"/> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </pre>
--	--

attribute **fbObjects/inVariable/@localId**

type	xsd:unsignedLong
properties	isRef 0 use required
source	<xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>

attribute **fbObjects/inVariable/@height**

type	xsd:decimal
properties	isRef 0 use optional
source	<xsd:attribute name="height" type="xsd:decimal" use="optional"/>

attribute **fbObjects/inVariable/@width**

type	xsd:decimal
properties	isRef 0 use optional
source	<xsd:attribute name="width" type="xsd:decimal" use="optional"/>

attribute **fbObjects/inVariable/@executionOrderId**

type	xsd:unsignedLong
properties	isRef 0 use optional

source	<xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/>
--------	---

attribute **fbObjects/inVariable/@negated**

type	xsd:boolean
properties	isRef 0 default false use optional
source	<xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>

attribute **fbObjects/inVariable/@edge**

type	ppx:edgeModifierType
properties	isRef 0 default none use optional
facets	enumeration none enumeration falling enumeration rising
source	<xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/>

attribute **fbObjects/inVariable/@storage**

type	ppx:storageModifierType
properties	isRef 0 default none use optional
facets	enumeration none enumeration set enumeration reset
source	<xsd:attribute name="storage" type="ppx:storageModifierType" use="optional" default="none"/>

attribute **fbObjects/inVariable/@globalId**

type	xsd:ID
properties	isRef 0 use optional
source	<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>


element **fbdObjects/inVariable/position**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:position					
properties	isRef	0	content	complex		
attributes	Name	Type	Use	Default	Fixed	annotation
	x	xsd:decimal	required			
	y	xsd:decimal	required			
source	<code><xsd:element name="position" type="ppx:position"/></code>					

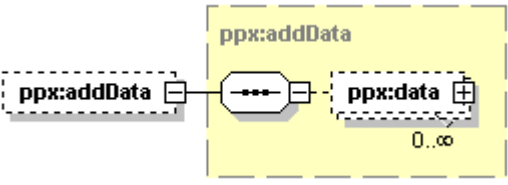
element **fbdObjects/inVariable/connectionPointOut**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:connectionPointOut					
properties	isRef	0	minOcc	0	maxOcc	1
	content	complex				
children	ppx:relPosition ppx:expression ppx:addData					
attributes	Name	Type	Use	Default	Fixed	annotation
	globalId	xsd:ID	optional			
source	<code><xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/></code>					

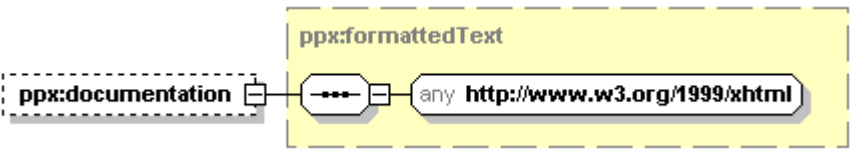
element fbdObjects/inVariable/expression

diagram	 <p>The operand is a valid iec variable e.g. avar[0].</p>
namespace	http://www.plcopen.org/xml/tc6_0201
type	xsd:string
properties	isRef 0 content simple
annotation	documentation The operand is a valid iec variable e.g. avar[0].
source	<pre><xsd:element name="expression" type="xsd:string"> <xsd:annotation> <xsd:documentation>The operand is a valid iec variable e.g. avar[0].</xsd:documentation> </xsd:annotation> </xsd:element></pre>

element fbdObjects/inVariable/addData

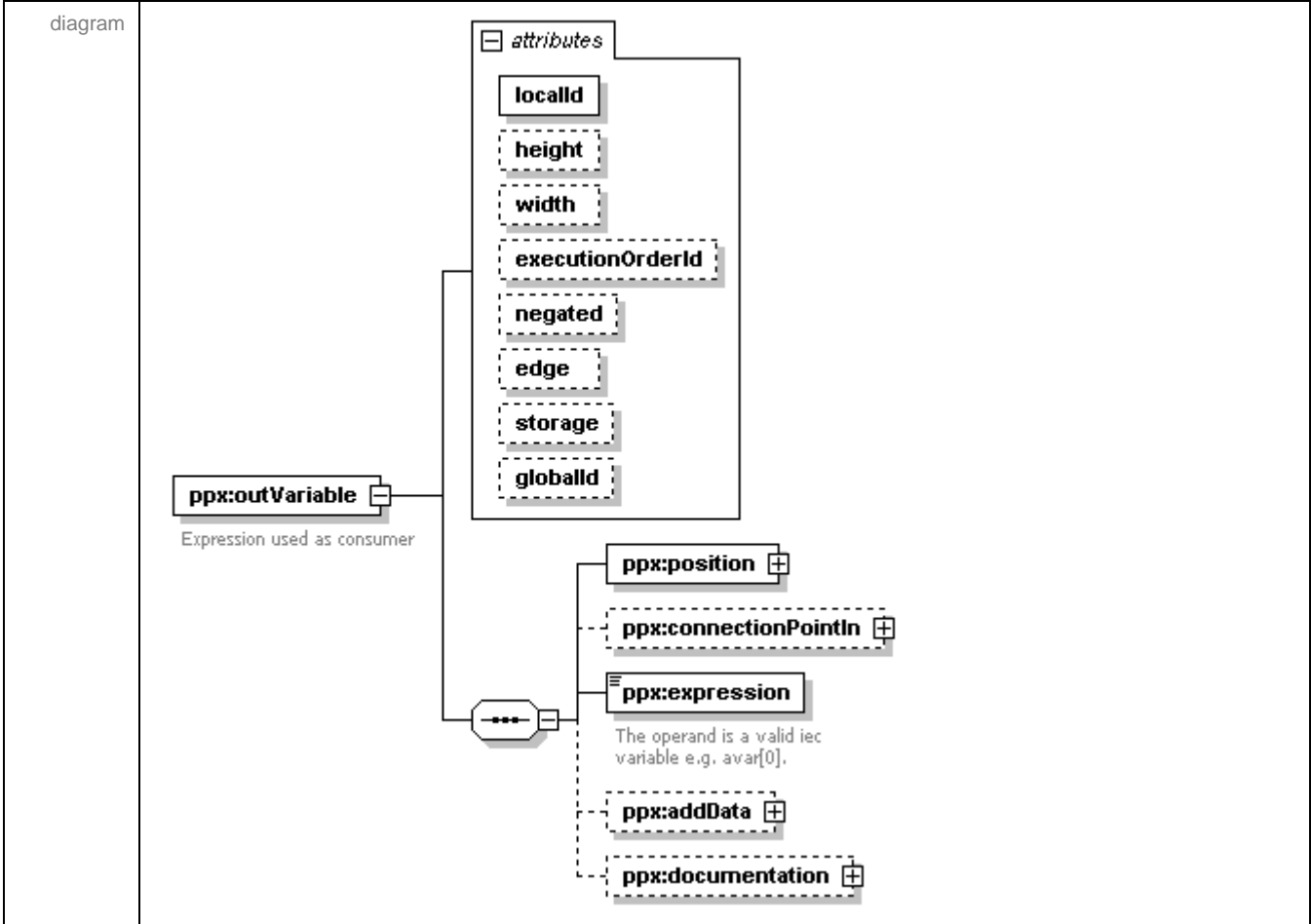
diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<pre><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></pre>

element fbdObjects/inVariable/documentation

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex

```
source <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
```

element **fbdObjects/outVariable**



namespace	http://www.plcopen.org/xml/tc6_0201					
properties	isRef	0	content	complex		
children	ppx:position ppx:connectionPointIn ppx:expression ppx:addData ppx:documentation					
attributes	Name	Type	Use	Default	Fixed	annotation
	localId	xsd:unsignedLong	required			
	height	xsd:decimal	optional			
	width	xsd:decimal	optional			
	executionOrderId	xsd:unsignedLong	optional			
	negated	xsd:boolean	optional	false		
	edge	ppx:edgeModifierType	optional	none		
	storage	ppx:storageModifierType	optional	none		
	globalId	xsd:ID	optional			
annotation	documentation Expression used as consumer					
source	<pre><xsd:element name="outVariable"> <xsd:annotation> <xsd:documentation>Expression used as consumer</xsd:documentation></pre>					

```

</xsd:annotation>
<xsd:complexType>
  <xsd:annotation>
    <xsd:documentation>Describes a graphical object representing a variable or expression used
as l-value</xsd:documentation>
  </xsd:annotation>
  <xsd:sequence>
    <xsd:element name="position" type="ppx:position"/>
    <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/>
    <xsd:element name="expression" type="xsd:string">
      <xsd:annotation>
        <xsd:documentation>The operand is a valid iec variable e.g. avar[0].</xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
    <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
  <xsd:attribute name="height" type="xsd:decimal" use="optional"/>
  <xsd:attribute name="width" type="xsd:decimal" use="optional"/>
  <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/>
  <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>
  <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/>
  <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional" default="none"/>
  <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>
</xsd:element>

```

attribute fbdObjects/outVariable/@localId

type	xsd:unsignedLong
properties	isRef 0 use required
source	<xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>

attribute fbdObjects/outVariable/@height

type	xsd:decimal
properties	isRef 0 use optional
source	<xsd:attribute name="height" type="xsd:decimal" use="optional"/>

attribute fbdObjects/outVariable/@width

type	xsd:decimal
properties	isRef 0 use optional
source	<xsd:attribute name="width" type="xsd:decimal" use="optional"/>

attribute **fbObjects/outVariable/@executionOrderId**

type	xsd:unsignedLong
properties	isRef 0 use optional
source	<code><xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/></code>

attribute **fbObjects/outVariable/@negated**

type	xsd:boolean
properties	isRef 0 default false use optional
source	<code><xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/></code>

attribute **fbObjects/outVariable/@edge**

type	ppx:edgeModifierType
properties	isRef 0 default none use optional
facets	enumeration none enumeration falling enumeration rising
source	<code><xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/></code>

attribute **fbObjects/outVariable/@storage**

type	ppx:storageModifierType
properties	isRef 0 default none use optional
facets	enumeration none enumeration set enumeration reset
source	<code><xsd:attribute name="storage" type="ppx:storageModifierType" use="optional" default="none"/></code>

attribute **fbObjects/outVariable/@globalId**

type	xsd:ID
properties	isRef 0 use optional
source	<code><xsd:attribute name="globalId" type="xsd:ID" use="optional"/></code>

element **fbdObjects/outVariable/position**


diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:position					
properties	isRef	0	content	complex		
attributes	Name	Type	Use	Default	Fixed	annotation
	x	xsd:decimal	required			
	y	xsd:decimal	required			
source	<xsd:element name="position" type="ppx:position"/>					

element **fbdObjects/outVariable/connectionPointIn**

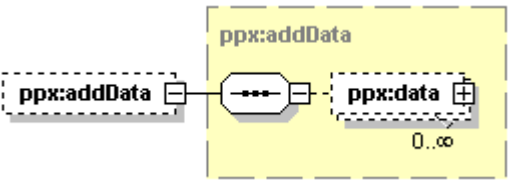
diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:connectionPointIn					
properties	isRef	0	minOcc	0		

	maxOcc 1 content complex
children	ppx:relPosition ppx:connection ppx:expression ppx:addData
attributes	Name globalId Type xsd:ID Use optional Default Fixed annotation
source	<code><xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/></code>

element **fbdObjects/outVariable/expression**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	xsd:string
properties	isRef 0 content simple
annotation	documentation The operand is a valid iec variable e.g. avar[0].
source	<pre> <xsd:element name="expression" type="xsd:string"> <xsd:annotation> <xsd:documentation>The operand is a valid iec variable e.g. avar[0].</xsd:documentation> </xsd:annotation> </xsd:element> </pre>

element **fbdObjects/outVariable/addData**

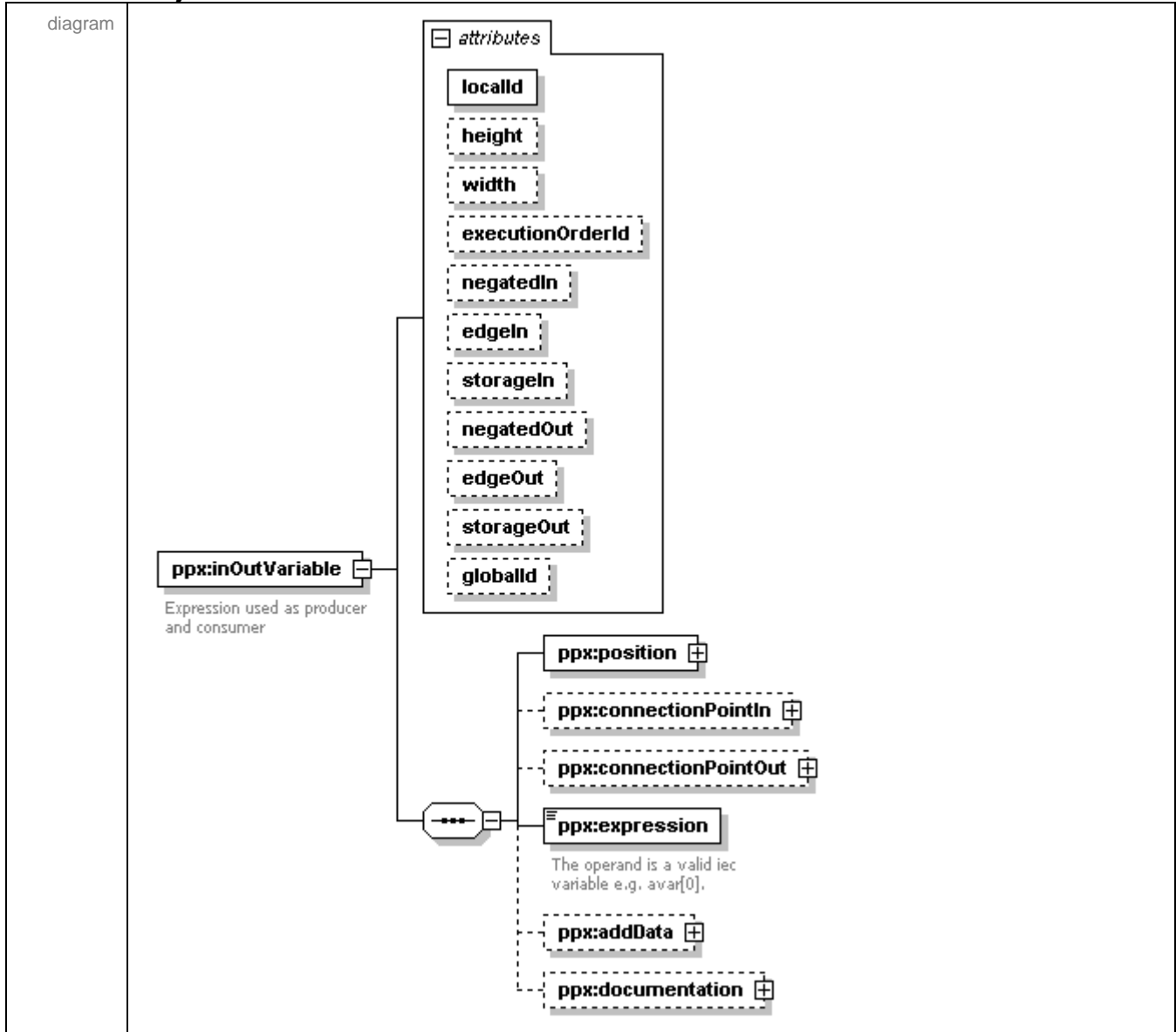
diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<code><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></code>

element **fbdObjects/outVariable/documentation**

diagram	
---------	--

namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
source	<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>

element **fbdObjects/inOutVariable**



namespace	http://www.plcopen.org/xml/tc6_0201					
properties	isRef	0				
	content	complex				
children	ppx:position ppx:connectionPointIn ppx:connectionPointOut ppx:expression ppx:addData ppx:documentation					
attributes	Name	Type	Use	Default	Fixed	annotation

	localId xsd:unsignedLong required height xsd:decimal optional width xsd:decimal optional executionOrderId xsd:unsignedLong optional negatedIn xsd:boolean optional false edgeIn ppx:edgeModifierType optional none storageIn ppx:storageModifierType optional none negatedOut xsd:boolean optional false edgeOut ppx:edgeModifierType optional none storageOut ppx:storageModifierType optional none globalId xsd:ID optional
annotation	documentation Expression used as producer and consumer
source	<pre> <xsd:element name="inOutVariable"> <xsd:annotation> <xsd:documentation>Expression used as producer and consumer</xsd:documentation> </xsd:annotation> <xsd:complexType> <xsd:annotation> <xsd:documentation>Describes a graphical object representing a variable which can be used as l-value and r-value at the same time</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="position" type="ppx:position"/> <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/> <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/> <xsd:element name="expression" type="xsd:string"> <xsd:annotation> <xsd:documentation>The operand is a valid iec variable e.g. avar[0].</xsd:documentation> </xsd:annotation> </xsd:element> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/> <xsd:attribute name="height" type="xsd:decimal" use="optional"/> <xsd:attribute name="width" type="xsd:decimal" use="optional"/> <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/> <xsd:attribute name="negatedIn" type="xsd:boolean" use="optional" default="false"/> <xsd:attribute name="edgeIn" type="ppx:edgeModifierType" use="optional" default="none"/> <xsd:attribute name="storageIn" type="ppx:storageModifierType" use="optional" default="none"/> <xsd:attribute name="negatedOut" type="xsd:boolean" use="optional" default="false"/> <xsd:attribute name="edgeOut" type="ppx:edgeModifierType" use="optional" default="none"/> <xsd:attribute name="storageOut" type="ppx:storageModifierType" use="optional" default="none"/> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </pre>

attribute **fbdObjects/inOutVariable/@localId**

type	xsd:unsignedLong
properties	isRef 0 use required
source	<code><xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/></code>

attribute **fbdObjects/inOutVariable/@height**

type	xsd:decimal
properties	isRef 0 use optional
source	<code><xsd:attribute name="height" type="xsd:decimal" use="optional"/></code>

attribute **fbdObjects/inOutVariable/@width**

type	xsd:decimal
properties	isRef 0 use optional
source	<code><xsd:attribute name="width" type="xsd:decimal" use="optional"/></code>

attribute **fbdObjects/inOutVariable/@executionOrderId**

type	xsd:unsignedLong
properties	isRef 0 use optional
source	<code><xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/></code>

attribute **fbdObjects/inOutVariable/@negatedIn**

type	xsd:boolean
properties	isRef 0 default false use optional
source	<code><xsd:attribute name="negatedIn" type="xsd:boolean" use="optional" default="false"/></code>

attribute **fbdObjects/inOutVariable/@edgeIn**

type	ppx:edgeModifierType
properties	isRef 0 default none use optional
facets	enumeration none enumeration falling enumeration rising
source	<code><xsd:attribute name="edgeIn" type="ppx:edgeModifierType" use="optional" default="none"/></code>

attribute **fbdObjects/inOutVariable/@storageIn**

type	ppx:storageModifierType
------	---

properties	isRef 0 default none use optional
facets	enumeration none enumeration set enumeration reset
source	<xsd:attribute name="storageIn" type="ppx:storageModifierType" use="optional" default="none"/>

attribute `fbObjects/inOutVariable/@negatedOut`

type	xsd:boolean
properties	isRef 0 default false use optional
source	<xsd:attribute name="negatedOut" type="xsd:boolean" use="optional" default="false"/>

attribute `fbObjects/inOutVariable/@edgeOut`

type	ppx:edgeModifierType
properties	isRef 0 default none use optional
facets	enumeration none enumeration falling enumeration rising
source	<xsd:attribute name="edgeOut" type="ppx:edgeModifierType" use="optional" default="none"/>

attribute `fbObjects/inOutVariable/@storageOut`

type	ppx:storageModifierType
properties	isRef 0 default none use optional
facets	enumeration none enumeration set enumeration reset
source	<xsd:attribute name="storageOut" type="ppx:storageModifierType" use="optional" default="none"/>

attribute `fbObjects/inOutVariable/@globalId`

type	xsd:ID
properties	isRef 0 use optional
source	<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>

element **fbdObjects/inOutVariable/position**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:position					
properties	isRef	0	content	complex		
attributes	Name	Type	Use	Default	Fixed	annotation
	x	xsd:decimal	required			
	y	xsd:decimal	required			
source	<xsd:element name="position" type="ppx:position"/>					

element **fbdObjects/inOutVariable/connectionPointIn**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:connectionPointIn					
properties	isRef	0	minOcc	0		

	maxOcc	1				
	content	complex				
children	ppx:relPosition ppx:connection ppx:expression ppx:addData					
attributes	Name	Type	Use	Default	Fixed	annotation
	globalId	xsd:ID	optional			
source	<code><xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/></code>					

element **fbObjects/inOutVariable/connectionPointOut**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:connectionPointOut					
properties	isRef	0	minOcc	0	maxOcc	1
	content	complex				
children	ppx:relPosition ppx:expression ppx:addData					
attributes	Name	Type	Use	Default	Fixed	annotation
	globalId	xsd:ID	optional			
source	<code><xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/></code>					

element **fbObjects/inOutVariable/expression**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	xsd:string					
properties	isRef	0	content	simple		
annotation	documentation The operand is a valid IEC variable e.g. avar[0].					

source	<pre><xsd:element name="expression" type="xsd:string"> <xsd:annotation> <xsd:documentation>The operand is a valid iec variable e.g. avar[0].</xsd:documentation> </xsd:annotation> </xsd:element></pre>
--------	---

element fbdObjects/inOutVariable/addData

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<pre><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></pre>

element fbdObjects/inOutVariable/documentation

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
source	<pre><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></pre>

element **fbdObjects/label**

<p>diagram</p>																																											
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>																																										
<p>properties</p>	<p>isRef 0 content complex</p>																																										
<p>children</p>	<p>ppx:position ppx:addData ppx:documentation</p>																																										
<p>attributes</p>	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>localId</td> <td>xsd:unsignedLong</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>height</td> <td>xsd:decimal</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>width</td> <td>xsd:decimal</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>label</td> <td>xsd:string</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>executionOrderId</td> <td>xsd:unsignedLong</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	localId	xsd:unsignedLong	required				height	xsd:decimal	optional				width	xsd:decimal	optional				label	xsd:string	required				executionOrderId	xsd:unsignedLong	optional				globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation																																						
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label	xsd:string	required																																									
executionOrderId	xsd:unsignedLong	optional																																									
globalId	xsd:ID	optional																																									
<p>source</p>	<pre> <xsd:element name="label"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Describes a graphical object representing a jump label</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="position" type="ppx:position"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/> <xsd:attribute name="height" type="xsd:decimal" use="optional"/> <xsd:attribute name="width" type="xsd:decimal" use="optional"/> <xsd:attribute name="label" type="xsd:string" use="required"/> <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </pre>																																										

attribute fbdObjects/label/@localId

type	xsd:unsignedLong
properties	isRef 0 use required
source	<code><xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/></code>

attribute fbdObjects/label/@height

type	xsd:decimal
properties	isRef 0 use optional
source	<code><xsd:attribute name="height" type="xsd:decimal" use="optional"/></code>

attribute fbdObjects/label/@width

type	xsd:decimal
properties	isRef 0 use optional
source	<code><xsd:attribute name="width" type="xsd:decimal" use="optional"/></code>

attribute fbdObjects/label/@label

type	xsd:string
properties	isRef 0 use required
source	<code><xsd:attribute name="label" type="xsd:string" use="required"/></code>

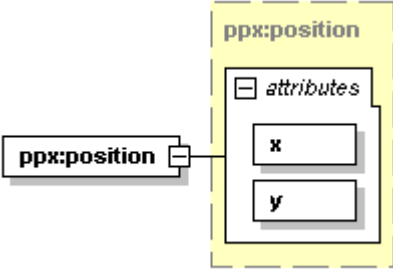
attribute fbdObjects/label/@executionOrderId

type	xsd:unsignedLong
properties	isRef 0 use optional
source	<code><xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/></code>

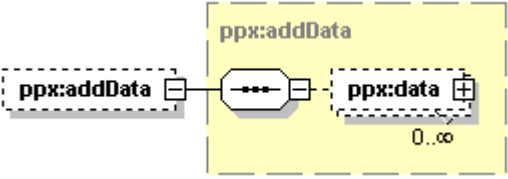
attribute fbdObjects/label/@globalId

type	xsd:ID
properties	isRef 0 use optional
source	<code><xsd:attribute name="globalId" type="xsd:ID" use="optional"/></code>


element **fbdObjects/label/position**

diagram	 <p>The diagram shows a box labeled 'ppx:position' containing an 'attributes' section with two sub-elements, 'x' and 'y'. A separate box labeled 'ppx:position' is connected to the main box by a line, indicating a reference or inclusion relationship.</p>																		
namespace	http://www.plcopen.org/xml/tc6_0201																		
type	ppx:position																		
properties	isRef 0 content complex																		
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>x</td> <td>xsd:decimal</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>y</td> <td>xsd:decimal</td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	x	xsd:decimal	required				y	xsd:decimal	required			
Name	Type	Use	Default	Fixed	annotation														
x	xsd:decimal	required																	
y	xsd:decimal	required																	
source	<xsd:element name="position" type="ppx:position"/>																		

element **fbdObjects/label/addData**

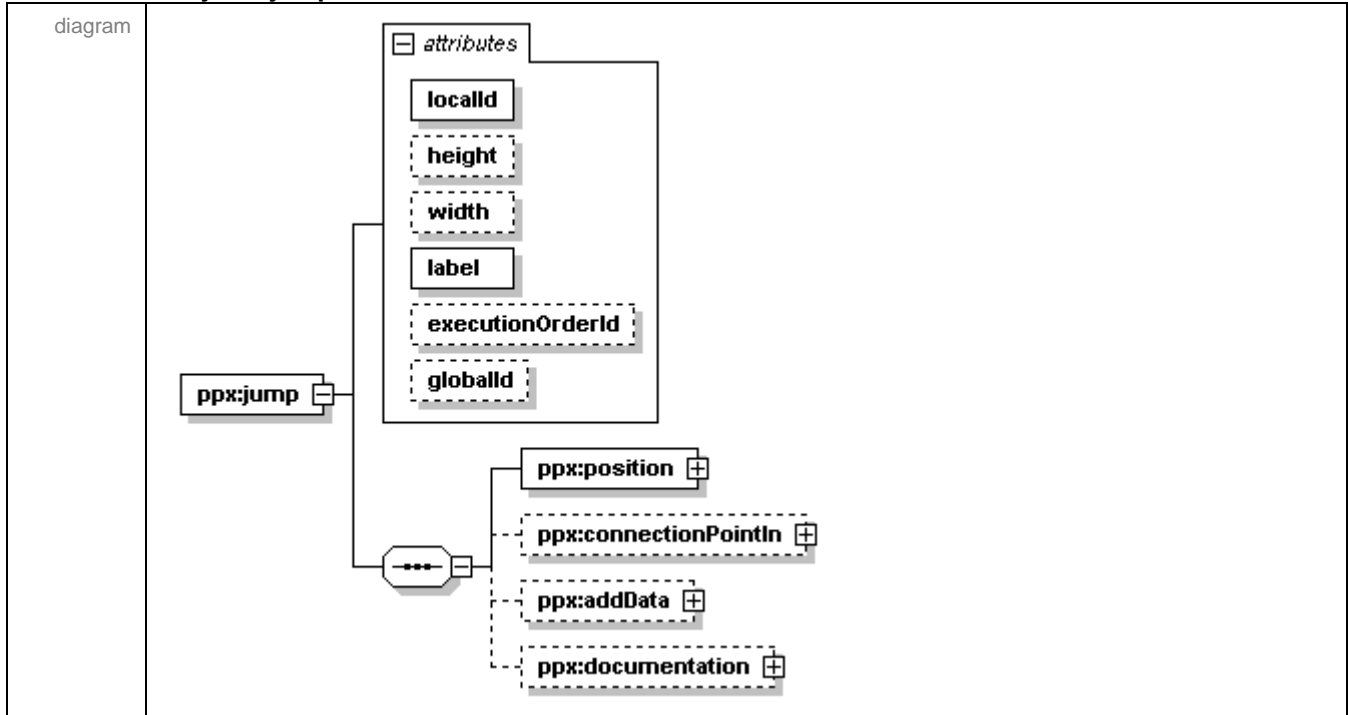
diagram	 <p>The diagram shows a box labeled 'ppx:addData' containing a sequence of elements: a dashed box 'ppx:addData', a sequence container '...', and a dashed box 'ppx:data' with a cardinality of '0..∞' below it.</p>
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>

element **fbdObjects/label/documentation**

diagram	 <p>The diagram shows a box labeled 'ppx:documentation' containing a sequence of elements: a dashed box 'ppx:documentation', a sequence container '...', and a box 'any http://www.w3.org/1999/xhtml'.</p>
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1

	content complex
source	<code><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></code>

element `fbObjects/jump`



namespace `http://www.plcopen.org/xml/tc6_0201`

properties isRef 0 content complex

children [ppx:position](#) [ppx:connectionPointIn](#) [ppx:addData](#) [ppx:documentation](#)

attributes	Name	Type	Use	Default	Fixed	annotation
	localId	<code>xsd:unsignedLong</code>	required			
	height	<code>xsd:decimal</code>	optional			
	width	<code>xsd:decimal</code>	optional			
	label	<code>xsd:string</code>	required			
	executionOrderId	<code>xsd:unsignedLong</code>	optional			
	globalId	<code>xsd:ID</code>	optional			

source

```

<xsd:element name="jump">
  <xsd:complexType>
    <xsd:annotation>
      <xsd:documentation>Describes a graphical object representing a jump
statement</xsd:documentation>
    </xsd:annotation>
    <xsd:sequence>
      <xsd:element name="position" type="ppx:position"/>
      <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/>
      <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
      <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
    <xsd:attribute name="height" type="xsd:decimal" use="optional"/>
  </xsd:complexType>
</xsd:element>
  
```

	<pre> <xsd:attribute name="width" type="xsd:decimal" use="optional"/> <xsd:attribute name="label" type="xsd:string" use="required"/> <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </pre>
--	---

attribute fbdObjects/jump/@localId

type	xsd:unsignedLong
properties	isRef 0 use required
source	<pre><xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/></pre>

attribute fbdObjects/jump/@height

type	xsd:decimal
properties	isRef 0 use optional
source	<pre><xsd:attribute name="height" type="xsd:decimal" use="optional"/></pre>

attribute fbdObjects/jump/@width

type	xsd:decimal
properties	isRef 0 use optional
source	<pre><xsd:attribute name="width" type="xsd:decimal" use="optional"/></pre>

attribute fbdObjects/jump/@label

type	xsd:string
properties	isRef 0 use required
source	<pre><xsd:attribute name="label" type="xsd:string" use="required"/></pre>

attribute fbdObjects/jump/@executionOrderId

type	xsd:unsignedLong
properties	isRef 0 use optional
source	<pre><xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/></pre>

attribute fbdObjects/jump/@globalId

type	xsd:ID
properties	isRef 0 use optional
source	<pre><xsd:attribute name="globalId" type="xsd:ID" use="optional"/></pre>

element fbdObjects/jump/position

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:position					
properties	isRef	0	content	complex		
attributes	Name	Type	Use	Default	Fixed	annotation
	x	xsd:decimal	required			
	y	xsd:decimal	required			
source	<code><xsd:element name="position" type="ppx:position"/></code>					

element fbdObjects/jump/connectionPointIn

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					

type	ppx:connectionPointIn							
properties	isRef	0	minOcc	0	maxOcc	1	content	complex
children	ppx:relPosition ppx:connection ppx:expression ppx:addData							
attributes	Name	Type	Use	Default	Fixed	annotation		
	globalId	xsd:ID	optional					
source	<xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/>							

element **fbObjects/jump/addData**

diagram								
namespace	http://www.plcopen.org/xml/tc6_0201							
type	ppx:addData							
properties	isRef	0	minOcc	0	maxOcc	1	content	complex
children	ppx:data							
source	<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>							

element **fbObjects/jump/documentation**

diagram								
namespace	http://www.plcopen.org/xml/tc6_0201							
type	ppx:formattedText							
properties	isRef	0	minOcc	0	maxOcc	1	content	complex
source	<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>							

element **fbdObjects/return**

<p>diagram</p>																																					
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>																																				
<p>properties</p>	<p>isRef 0 content complex</p>																																				
<p>children</p>	<p>ppx:position ppx:connectionPointIn ppx:addData ppx:documentation</p>																																				
<p>attributes</p>	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>localId</td> <td>xsd:unsignedLong</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>height</td> <td>xsd:decimal</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>width</td> <td>xsd:decimal</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>executionOrderId</td> <td>xsd:unsignedLong</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	localId	xsd:unsignedLong	required				height	xsd:decimal	optional				width	xsd:decimal	optional				executionOrderId	xsd:unsignedLong	optional				globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation																																
localId	xsd:unsignedLong	required																																			
height	xsd:decimal	optional																																			
width	xsd:decimal	optional																																			
executionOrderId	xsd:unsignedLong	optional																																			
globalId	xsd:ID	optional																																			
<p>source</p>	<pre> <xsd:element name="return"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Describes a graphical object representing a return statement</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="position" type="ppx:position"/> <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/> <xsd:attribute name="height" type="xsd:decimal" use="optional"/> <xsd:attribute name="width" type="xsd:decimal" use="optional"/> <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </pre>																																				

attribute **fbdObjects/return/@localId**

type	xsd:unsignedLong
properties	isRef 0 use required
source	<code><xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/></code>

attribute **fbdObjects/return/@height**

type	xsd:decimal
properties	isRef 0 use optional
source	<code><xsd:attribute name="height" type="xsd:decimal" use="optional"/></code>

attribute **fbdObjects/return/@width**

type	xsd:decimal
properties	isRef 0 use optional
source	<code><xsd:attribute name="width" type="xsd:decimal" use="optional"/></code>

attribute **fbdObjects/return/@executionOrderId**

type	xsd:unsignedLong
properties	isRef 0 use optional
source	<code><xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/></code>

attribute **fbdObjects/return/@globalId**

type	xsd:ID
properties	isRef 0 use optional
source	<code><xsd:attribute name="globalId" type="xsd:ID" use="optional"/></code>

element **fbdObjects/return/position**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:position

properties	isRef 0 content complex																		
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>x</td> <td>xsd:decimal</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>y</td> <td>xsd:decimal</td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	x	xsd:decimal	required				y	xsd:decimal	required			
Name	Type	Use	Default	Fixed	annotation														
x	xsd:decimal	required																	
y	xsd:decimal	required																	
source	<xsd:element name="position" type="ppx:position"/>																		

element `fbObjects/return/connectionPointIn`

diagram													
namespace	http://www.plcopen.org/xml/tc6_0201												
type	ppx:connectionPointIn												
properties	isRef 0 minOcc 0 maxOcc 1 content complex												
children	ppx:relPosition ppx:connection ppx:expression ppx:addData												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation								
globalId	xsd:ID	optional											
source	<xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/>												

element fbdObjects/return/addData

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<code><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></code>

element fbdObjects/return/documentation

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
source	<code><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></code>

group IdObjects

diagram	<p>Collection of objects which are defined in Id and are an extension to fbd. They can be used in Id and sfc bodies</p>
namespace	http://www.plcopen.org/xml/tc6_0201
children	ppx:leftPowerRail ppx:rightPowerRail ppx:coil ppx:contact
used by	elements body/LD body/SFC
annotation	documentation Collection of objects which are defined in Id and are an extension to fbd. They can be used in Id and sfc bodies
source	<code><xsd:group name="IdObjects"></code> <code><xsd:annotation></code>

```

<xsd:documentation>Collection of objects which are defined in Id and are an extension to fbd.
They can be used in Id and sfc bodies</xsd:documentation>
</xsd:annotation>
<xsd:choice>
  <xsd:element name="leftPowerRail">
    <xsd:complexType>
      <xsd:annotation>
        <xsd:documentation>Describes a graphical object representing a left
powerrail</xsd:documentation>
      </xsd:annotation>
      <xsd:sequence>
        <xsd:element name="position" type="ppx:position"/>
        <xsd:element name="connectionPointOut" minOccurs="0" maxOccurs="unbounded">
          <xsd:complexType>
            <xsd:complexContent>
              <xsd:extension base="ppx:connectionPointOut">
                <xsd:attribute name="formalParameter" type="xsd:string" use="required"/>
              </xsd:extension>
            </xsd:complexContent>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
        <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
      </xsd:sequence>
      <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
      <xsd:attribute name="height" type="xsd:decimal" use="optional"/>
      <xsd:attribute name="width" type="xsd:decimal" use="optional"/>
      <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional">
        <xsd:annotation>
          <xsd:documentation>Used to identify the order of execution. Also used to identify one
special block if there are several blocks with the same name.</xsd:documentation>
        </xsd:annotation>
      </xsd:attribute>
      <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
    </xsd:complexType>
  </xsd:element>
  <xsd:element name="rightPowerRail">
    <xsd:complexType>
      <xsd:annotation>
        <xsd:documentation>Describes a graphical object representing a right
powerrail</xsd:documentation>
      </xsd:annotation>
      <xsd:sequence>
        <xsd:element name="position" type="ppx:position"/>
        <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"
maxOccurs="unbounded"/>
        <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
        <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
      </xsd:sequence>
      <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
      <xsd:attribute name="height" type="xsd:decimal" use="optional"/>
      <xsd:attribute name="width" type="xsd:decimal" use="optional"/>
      <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional">
        <xsd:annotation>
          <xsd:documentation>Used to identify the order of execution. Also used to identify one
special block if there are several blocks with the same name.</xsd:documentation>
        </xsd:annotation>
      </xsd:attribute>
    </xsd:complexType>
  </xsd:element>
</xsd:choice>

```

```

</xsd:annotation>
</xsd:attribute>
<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>
</xsd:element>
<xsd:element name="coil">
  <xsd:complexType>
    <xsd:annotation>
      <xsd:documentation>Describes a graphical object representing a boolean variable which can
be used as l-value and r-value at the same time</xsd:documentation>
    </xsd:annotation>
    <xsd:sequence>
      <xsd:element name="position" type="ppx:position"/>
      <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/>
      <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/>
      <xsd:element name="variable" type="xsd:string">
        <xsd:annotation>
          <xsd:documentation>The operand is a valid boolean iec variable e.g.
avar[0]</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
      <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
    <xsd:attribute name="height" type="xsd:decimal" use="optional"/>
    <xsd:attribute name="width" type="xsd:decimal" use="optional"/>
    <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/>
    <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>
    <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/>
    <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional"
default="none"/>
    <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
  </xsd:complexType>
</xsd:element>
<xsd:element name="contact">
  <xsd:complexType>
    <xsd:annotation>
      <xsd:documentation>Describes a graphical object representing a variable which can be used
as l-value and r-value at the same time</xsd:documentation>
    </xsd:annotation>
    <xsd:sequence>
      <xsd:element name="position" type="ppx:position"/>
      <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/>
      <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/>
      <xsd:element name="variable" type="xsd:string">
        <xsd:annotation>
          <xsd:documentation>The operand is a valid boolean iec variable e.g.
avar[0]</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
      <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
    <xsd:attribute name="height" type="xsd:decimal" use="optional"/>

```

```

<xsd:attribute name="width" type="xsd:decimal" use="optional"/>
<xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/>
<xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>
<xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/>
<xsd:attribute name="storage" type="ppx:storageModifierType" use="optional"
default="none"/>
<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>
</xsd:element>
</xsd:choice>
</xsd:group>

```

element **IdObjects/leftPowerRail**

diagram																															
namespace	http://www.plcopen.org/xml/tc6_0201																														
properties	isRef 0 content complex																														
children	ppx:position ppx:connectionPointOut ppx:addData ppx:documentation																														
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>localId</td> <td>xsd:unsignedLong</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>height</td> <td>xsd:decimal</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>width</td> <td>xsd:decimal</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>executionOrderId</td> <td>xsd:unsignedLong</td> <td>optional</td> <td></td> <td></td> <td>documentation Used to identify the order of execution. Also used to identify one</td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	localId	xsd:unsignedLong	required				height	xsd:decimal	optional				width	xsd:decimal	optional				executionOrderId	xsd:unsignedLong	optional			documentation Used to identify the order of execution. Also used to identify one
Name	Type	Use	Default	Fixed	annotation																										
localId	xsd:unsignedLong	required																													
height	xsd:decimal	optional																													
width	xsd:decimal	optional																													
executionOrderId	xsd:unsignedLong	optional			documentation Used to identify the order of execution. Also used to identify one																										

	<p>globalId xsd:ID optional</p>	special block if there are several blocks with the same name.
source	<pre> <xsd:element name="leftPowerRail"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Describes a graphical object representing a left powerrail</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="position" type="ppx:position"/> <xsd:element name="connectionPointOut" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:connectionPointOut"> <xsd:attribute name="formalParameter" type="xsd:string" use="required"/> </xsd:extension> </xsd:complexContent> </xsd:complexType> </xsd:element> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/> <xsd:attribute name="height" type="xsd:decimal" use="optional"/> <xsd:attribute name="width" type="xsd:decimal" use="optional"/> <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"> <xsd:annotation> <xsd:documentation>Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.</xsd:documentation> </xsd:annotation> </xsd:attribute> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </pre>	

attribute **IdObjects/leftPowerRail/@localId**

type	xsd:unsignedLong
properties	isRef 0 use required
source	<pre><xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/></pre>

attribute **IdObjects/leftPowerRail/@height**

type	xsd:decimal
properties	isRef 0 use optional
source	<pre><xsd:attribute name="height" type="xsd:decimal" use="optional"/></pre>

attribute **IdObjects/leftPowerRail/@width**

type	xsd:decimal
properties	isRef 0 use optional
source	<code><xsd:attribute name="width" type="xsd:decimal" use="optional"/></code>

attribute **IdObjects/leftPowerRail/@executionOrderId**

type	xsd:unsignedLong
properties	isRef 0 use optional
annotation	documentation Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.
source	<code><xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"> <xsd:annotation> <xsd:documentation>Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.</xsd:documentation> </xsd:annotation> </xsd:attribute></code>

attribute **IdObjects/leftPowerRail/@globalId**

type	xsd:ID
properties	isRef 0 use optional
source	<code><xsd:attribute name="globalId" type="xsd:ID" use="optional"/></code>

element **IdObjects/leftPowerRail/position**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:position					
properties	isRef 0	content complex				
attributes	Name	Type	Use	Default	Fixed	annotation
	x	xsd:decimal	required			
	y	xsd:decimal	required			
source	<code><xsd:element name="position" type="ppx:position"/></code>					

element **IdObjects/leftPowerRail/connectionPointOut**

diagram	<p>The diagram illustrates the structure of the <code>ppx:connectionPointOut</code> extension. It shows a base element <code>ppx:connectionPointOut</code> (dashed box) with a multiplicity of <code>0..∞</code>. The extension (yellow box) includes an <code>attributes</code> block containing <code>globalId</code>, a <code>ppx:relPosition</code> element (with a plus sign icon) described as 'Relative position of the connection pin. Origin is the anchor position of the block.', a <code>ppx:expression</code> element (with a plus sign icon) described as 'The operand is a valid iec variable e.g. avar[0].', and a <code>ppx:addData</code> element (with a plus sign icon). Below the extension is an <code>attributes</code> block containing the <code>formalParameter</code> attribute.</p>						
namespace	http://www.plcopen.org/xml/tc6_0201						
type	extension of ppx:connectionPointOut						
properties	isRef	0					
	minOcc	0					
	maxOcc	unbounded					
	content	complex					
children	ppx:relPosition ppx:expression ppx:addData						
attributes	Name	Type	Use	Default	Fixed	Use	annotation
	globalId	xsd:ID	optional				
	formalParameter	xsd:string	required				
source	<pre><xsd:element name="connectionPointOut" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:connectionPointOut"> <xsd:attribute name="formalParameter" type="xsd:string" use="required"/> </xsd:extension> </xsd:complexContent> </xsd:complexType> </xsd:element></pre>						

attribute **IdObjects/leftPowerRail/connectionPointOut/@formalParameter**

type	xsd:string
properties	isRef 0 use required
source	<code><xsd:attribute name="formalParameter" type="xsd:string" use="required"/></code>

element **IdObjects/leftPowerRail/addData**

diagram	<p>The diagram illustrates the structure of the <code>ppx:addData</code> element. It is a container element (represented by a rounded rectangle) that contains a <code>ppx:data</code> element (represented by a rounded rectangle with a plus sign). The <code>ppx:data</code> element has a cardinality of <code>0..∞</code>, indicating it can occur zero or more times. The entire structure is enclosed in a dashed box labeled <code>ppx:addData</code>.</p>
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	<ul style="list-style-type: none"> isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<code><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></code>

element **IdObjects/leftPowerRail/documentation**

diagram	<p>The diagram illustrates the structure of the <code>ppx:documentation</code> element. It is a container element (represented by a rounded rectangle) that contains a <code>ppx:formattedText</code> element (represented by a rounded rectangle with a plus sign). The <code>ppx:formattedText</code> element has a cardinality of <code>1</code> and a type of <code>any http://www.w3.org/1999/xhtml</code>. The entire structure is enclosed in a dashed box labeled <code>ppx:documentation</code>.</p>
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	<ul style="list-style-type: none"> isRef 0 minOcc 0 maxOcc 1 content complex
source	<code><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></code>

element `IdObjects/rightPowerRail`

diagram																																					
namespace	http://www.plcopen.org/xml/tc6_0201																																				
properties	isRef 0 content complex																																				
children	ppx:position ppx:connectionPointIn ppx:addData ppx:documentation																																				
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>localId</td> <td>xsd:unsignedLong</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>height</td> <td>xsd:decimal</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>width</td> <td>xsd:decimal</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>executionOrderId</td> <td>xsd:unsignedLong</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td>documentation Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.</td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	localId	xsd:unsignedLong	required				height	xsd:decimal	optional				width	xsd:decimal	optional				executionOrderId	xsd:unsignedLong	optional				globalId	xsd:ID	optional			documentation Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.
Name	Type	Use	Default	Fixed	annotation																																
localId	xsd:unsignedLong	required																																			
height	xsd:decimal	optional																																			
width	xsd:decimal	optional																																			
executionOrderId	xsd:unsignedLong	optional																																			
globalId	xsd:ID	optional			documentation Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.																																
source	<pre> <xsd:element name="rightPowerRail"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Describes a graphical object representing a right powerrail</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="position" type="ppx:position"/> </pre>																																				

	<pre> <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0" maxOccurs="unbounded"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/> <xsd:attribute name="height" type="xsd:decimal" use="optional"/> <xsd:attribute name="width" type="xsd:decimal" use="optional"/> <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"> <xsd:annotation> <xsd:documentation>Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.</xsd:documentation> </xsd:annotation> </xsd:attribute> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </pre>
--	--

attribute IdObjects/rightPowerRail/@localId

type	xsd:unsignedLong
properties	isRef 0 use required
source	<xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>

attribute IdObjects/rightPowerRail/@height

type	xsd:decimal
properties	isRef 0 use optional
source	<xsd:attribute name="height" type="xsd:decimal" use="optional"/>

attribute IdObjects/rightPowerRail/@width

type	xsd:decimal
properties	isRef 0 use optional
source	<xsd:attribute name="width" type="xsd:decimal" use="optional"/>

attribute IdObjects/rightPowerRail/@executionOrderId

type	xsd:unsignedLong
properties	isRef 0 use optional
annotation	documentation Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.
source	<xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"> <xsd:annotation> <xsd:documentation> Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name. </xsd:documentation>

	<pre></xsd:annotation> </xsd:attribute></pre>
--	---

attribute IdObjects/rightPowerRail/@globalId

type	xsd:ID
properties	isRef 0 use optional
source	<pre><xsd:attribute name="globalId" type="xsd:ID" use="optional"/></pre>

element IdObjects/rightPowerRail/position

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:position					
properties	isRef	0				
	content	complex				
attributes	Name	Type	Use	Default	Fixed	annotation
	<u>x</u>	xsd:decimal	required			
	<u>y</u>	xsd:decimal	required			
source	<pre><xsd:element name="position" type="ppx:position"/></pre>					

element **IdObjects/rightPowerRail/connectionPointIn**

diagram													
namespace	http://www.plcopen.org/xml/tc6_0201												
type	ppx:connectionPointIn												
properties	<table border="0"> <tr><td>isRef</td><td>0</td></tr> <tr><td>minOcc</td><td>0</td></tr> <tr><td>maxOcc</td><td>unbounded</td></tr> <tr><td>content</td><td>complex</td></tr> </table>	isRef	0	minOcc	0	maxOcc	unbounded	content	complex				
isRef	0												
minOcc	0												
maxOcc	unbounded												
content	complex												
children	ppx:relPosition ppx:connection ppx:expression ppx:addData												
attributes	<table border="0"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation								
globalId	xsd:ID	optional											
source	<xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0" maxOccurs="unbounded"/>												

element **IdObjects/rightPowerRail/addData**

diagram							
namespace	http://www.plcopen.org/xml/tc6_0201						
type	ppx:addData						
properties	<table border="0"> <tr><td>isRef</td><td>0</td></tr> <tr><td>minOcc</td><td>0</td></tr> <tr><td>maxOcc</td><td>1</td></tr> </table>	isRef	0	minOcc	0	maxOcc	1
isRef	0						
minOcc	0						
maxOcc	1						

	content complex
children	ppx:data
source	<code><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></code>

element IdObjects/rightPowerRail/documentation

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
source	<code><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></code>

element **IdObjects/coil**

<p>diagram</p>						
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>					
<p>properties</p>	<p>isRef 0</p>	<p>content complex</p>				
<p>children</p>	<p>ppx:position ppx:connectionPointIn ppx:connectionPointOut ppx:variable ppx:addData ppx:documentation</p>					
<p>attributes</p>	<p>Name</p>	<p>Type</p>	<p>Use</p>	<p>Default</p>	<p>Fixed</p>	<p>annotation</p>
<p>source</p>	<pre><xsd:element name="coil"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Describes a graphical object representing a boolean variable which can be used as I-value and r-value at the same time</xsd:documentation> </xsd:annotation></pre>					

	<pre> <xsd:sequence> <xsd:element name="position" type="ppx:position"/> <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/> <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/> <xsd:element name="variable" type="xsd:string"> <xsd:annotation> <xsd:documentation>The operand is a valid boolean iec variable e.g. avar[0]</xsd:documentation> </xsd:annotation> </xsd:element> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/> <xsd:attribute name="height" type="xsd:decimal" use="optional"/> <xsd:attribute name="width" type="xsd:decimal" use="optional"/> <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/> <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/> <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/> <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional" default="none"/> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </pre>
--	--

attribute **IdObjects/coil/@localId**

type	xsd:unsignedLong
properties	isRef 0 use required
source	<xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>

attribute **IdObjects/coil/@height**

type	xsd:decimal
properties	isRef 0 use optional
source	<xsd:attribute name="height" type="xsd:decimal" use="optional"/>

attribute **IdObjects/coil/@width**

type	xsd:decimal
properties	isRef 0 use optional
source	<xsd:attribute name="width" type="xsd:decimal" use="optional"/>

attribute **IdObjects/coil/@executionOrderId**

type	xsd:unsignedLong
properties	isRef 0 use optional

source	<xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/>
--------	---

attribute **IdObjects/coil/@negated**

type	xsd:boolean
properties	isRef 0 default false use optional
source	<xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>

attribute **IdObjects/coil/@edge**

type	ppx:edgeModifierType
properties	isRef 0 default none use optional
facets	enumeration none enumeration falling enumeration rising
source	<xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/>

attribute **IdObjects/coil/@storage**

type	ppx:storageModifierType
properties	isRef 0 default none use optional
facets	enumeration none enumeration set enumeration reset
source	<xsd:attribute name="storage" type="ppx:storageModifierType" use="optional" default="none"/>

attribute **IdObjects/coil/@globalId**

type	xsd:ID
properties	isRef 0 use optional
source	<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>

element **IdObjects/coil/position**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:position					
properties	isRef	0	content	complex		
attributes	Name	Type	Use	Default	Fixed	annotation
	x	xsd:decimal	required			
	y	xsd:decimal	required			
source	<xsd:element name="position" type="ppx:position"/>					

element **IdObjects/coil/connectionPointIn**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:connectionPointIn					
properties	isRef	0	minOcc	0		

	maxOcc	1	content	complex			
children	ppx:relPosition ppx:connection ppx:expression ppx:addData						
attributes	Name	Type	Use	Default	Fixed	annotation	
	globalId	xsd:ID	optional				
source	<code><xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/></code>						

element **IdObjects/coil/connectionPointOut**

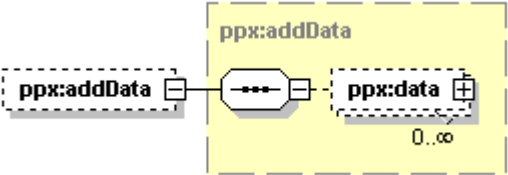
diagram								
namespace	http://www.plcopen.org/xml/tc6_0201							
type	ppx:connectionPointOut							
properties	isRef	0	minOcc	0	maxOcc	1	content	complex
children	ppx:relPosition ppx:expression ppx:addData							
attributes	Name	Type	Use	Default	Fixed	annotation		
	globalId	xsd:ID	optional					
source	<code><xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/></code>							

element **IdObjects/coil/variable**

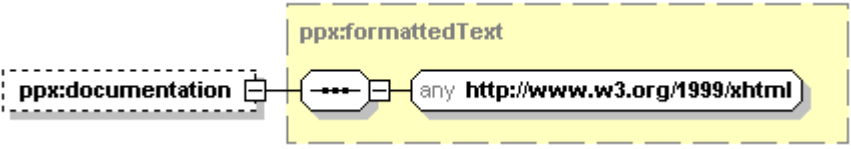
diagram							
namespace	http://www.plcopen.org/xml/tc6_0201						
type	xsd:string						
properties	isRef	0	content	simple			
annotation	documentation	The operand is a valid boolean iec variable e.g. avar[0]					

source	<pre><xsd:element name="variable" type="xsd:string"> <xsd:annotation> <xsd:documentation>The operand is a valid boolean iec variable e.g. avar[0]</xsd:documentation> </xsd:annotation> </xsd:element></pre>
--------	--

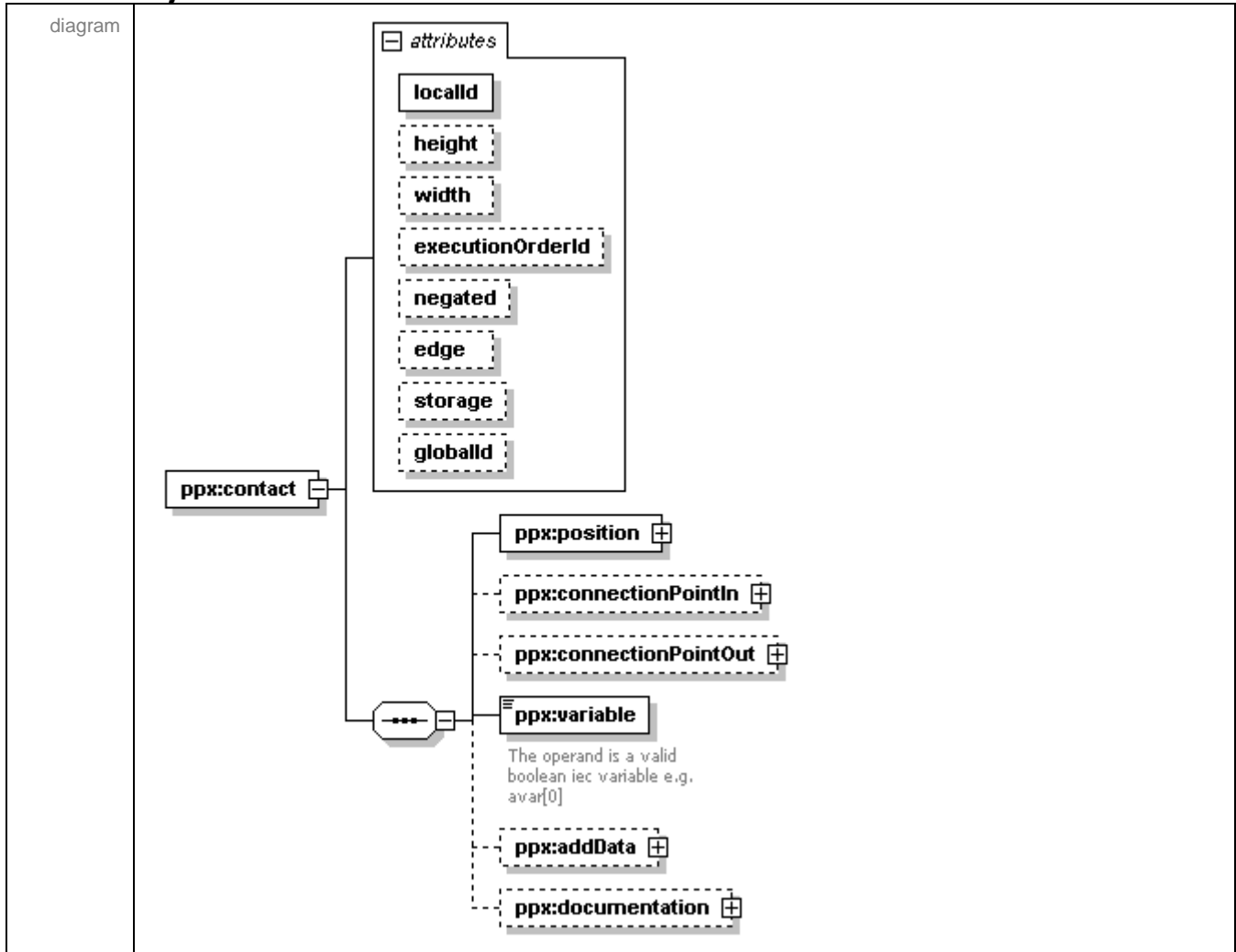
element **IdObjects/coil/addData**

diagram	 <p>The diagram shows the structure of the <code>ppx:addData</code> element. It consists of a <code>ppx:addData</code> element (dashed box) containing a <code>ppx:data</code> element (dashed box) with a cardinality of <code>0..∞</code>. The <code>ppx:addData</code> element is highlighted in yellow.</p>
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	<ul style="list-style-type: none"> isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<pre><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></pre>

element **IdObjects/coil/documentation**

diagram	 <p>The diagram shows the structure of the <code>ppx:formattedText</code> element. It consists of a <code>ppx:documentation</code> element (dashed box) containing a <code>ppx:formattedText</code> element (dashed box) with a cardinality of <code>0..∞</code>. The <code>ppx:formattedText</code> element is highlighted in yellow and contains the text <code>any http://www.w3.org/1999/xhtml</code>.</p>
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	<ul style="list-style-type: none"> isRef 0 minOcc 0 maxOcc 1 content complex
source	<pre><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></pre>

element **IdObjects/contact**



namespace http://www.plcopen.org/xml/tc6_0201

properties isRef 0
content complex

children [ppx:position](#) [ppx:connectionPointIn](#) [ppx:connectionPointOut](#) [ppx:variable](#) [ppx:addData](#) [ppx:documentation](#)

attributes	Name	Type	Use	Default	Fixed	annotation
	localId	xsd:unsignedLong	required			
	height	xsd:decimal	optional			
	width	xsd:decimal	optional			
	executionOrderId	xsd:unsignedLong	optional			
	negated	xsd:boolean	optional	false		
	edge	ppx:edgeModifierType	optional	none		
	storage	ppx:storageModifierType	optional	none		
	globalId	xsd:ID	optional			

source `<xsd:element name="contact">
<xsd:complexType>
<xsd:annotation>
<xsd:documentation>Describes a graphical object representing a variable which can be used as l-value and r-value at the same time</xsd:documentation>
</xsd:annotation>`

	<pre> <xsd:sequence> <xsd:element name="position" type="ppx:position"/> <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/> <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/> <xsd:element name="variable" type="xsd:string"> <xsd:annotation> <xsd:documentation>The operand is a valid boolean iec variable e.g. avar[0]</xsd:documentation> </xsd:annotation> </xsd:element> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/> <xsd:attribute name="height" type="xsd:decimal" use="optional"/> <xsd:attribute name="width" type="xsd:decimal" use="optional"/> <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/> <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/> <xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/> <xsd:attribute name="storage" type="ppx:storageModifierType" use="optional" default="none"/> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </pre>
--	--

attribute **IdObjects/contact/@localId**

type	xsd:unsignedLong
properties	isRef 0 use required
source	<xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>

attribute **IdObjects/contact/@height**

type	xsd:decimal
properties	isRef 0 use optional
source	<xsd:attribute name="height" type="xsd:decimal" use="optional"/>

attribute **IdObjects/contact/@width**

type	xsd:decimal
properties	isRef 0 use optional
source	<xsd:attribute name="width" type="xsd:decimal" use="optional"/>

attribute **IdObjects/contact/@executionOrderId**

type	xsd:unsignedLong
properties	isRef 0 use optional

source	<xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/>
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attribute **IdObjects/contact/@negated**

type	xsd:boolean
properties	isRef 0 default false use optional
source	<xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>

attribute **IdObjects/contact/@edge**

type	ppx:edgeModifierType
properties	isRef 0 default none use optional
facets	enumeration none enumeration falling enumeration rising
source	<xsd:attribute name="edge" type="ppx:edgeModifierType" use="optional" default="none"/>

attribute **IdObjects/contact/@storage**

type	ppx:storageModifierType
properties	isRef 0 default none use optional
facets	enumeration none enumeration set enumeration reset
source	<xsd:attribute name="storage" type="ppx:storageModifierType" use="optional" default="none"/>

attribute **IdObjects/contact/@globalId**

type	xsd:ID
properties	isRef 0 use optional
source	<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>

element **IdObjects/contact/position**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:position					
properties	isRef	0	content	complex		
attributes	Name	Type	Use	Default	Fixed	annotation
	x	xsd:decimal	required			
	y	xsd:decimal	required			
source	<xsd:element name="position" type="ppx:position"/>					

element **IdObjects/contact/connectionPointIn**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:connectionPointIn					
properties	isRef	0	minOcc	0		

	maxOcc	1				
	content	complex				
children	ppx:relPosition ppx:connection ppx:expression ppx:addData					
attributes	Name	Type	Use	Default	Fixed	annotation
	globalId	xsd:ID	optional			
source	<code><xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/></code>					

element **IdObjects/contact/connectionPointOut**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:connectionPointOut					
properties	isRef	0				
	minOcc	0				
	maxOcc	1				
	content	complex				
children	ppx:relPosition ppx:expression ppx:addData					
attributes	Name	Type	Use	Default	Fixed	annotation
	globalId	xsd:ID	optional			
source	<code><xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/></code>					

element **IdObjects/contact/variable**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	xsd:string					
properties	isRef	0				
	content	simple				
annotation	documentation The operand is a valid boolean iec variable e.g. avar[0]					

source	<pre><xsd:element name="variable" type="xsd:string"> <xsd:annotation> <xsd:documentation>The operand is a valid boolean iec variable e.g. avar[0]</xsd:documentation> </xsd:annotation> </xsd:element></pre>
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element **IdObjects/contact/addData**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<pre><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></pre>

element **IdObjects/contact/documentation**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
source	<pre><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></pre>

group sfcObjects

<p>diagram</p>	<p>sfcObjects</p> <p>Collection of objects which are defined in sfc. They can only be used in sfc bodies</p> <p>ppx:step</p> <p>A single step in a SFC Sequence. Actions are associated with a step by using an actionBlock element with a connection to the step element</p> <p>ppx:macroStep</p> <p>ppx:jumpStep</p> <p>Jump to a step, macro step or simultaneous divergence. Acts like a step. Predecessor should be a transition.</p> <p>ppx:transition</p> <p>ppx:selectionDivergence</p> <p>ppx:selectionConvergence</p> <p>ppx:simultaneousDivergence</p> <p>ppx:simultaneousConvergence</p>
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>
<p>children</p>	<p>ppx:step ppx:macroStep ppx:jumpStep ppx:transition ppx:selectionDivergence ppx:selectionConvergence ppx:simultaneousDivergence ppx:simultaneousConvergence</p>
<p>used by</p>	<p>element body/SFC</p>
<p>annotation</p>	<p>documentation Collection of objects which are defined in sfc. They can only be used in sfc bodies</p>
<p>source</p>	<pre> <xsd:group name="sfcObjects"> <xsd:annotation> <xsd:documentation>Collection of objects which are defined in sfc. They can only be used in sfc bodies</xsd:documentation> </xsd:annotation> <xsd:choice> <xsd:element name="step"> <xsd:annotation> <xsd:documentation>A single step in a SFC Sequence. Actions are associated with a step by using an actionBlock element with a connection to the step element</xsd:documentation> </xsd:annotation> <xsd:complexType> <xsd:annotation> <xsd:documentation>Contains actions</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="position" type="ppx:position"/> <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/> <xsd:element name="connectionPointOut" minOccurs="0"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:connectionPointOut"> </pre>

```

        <xsd:attribute name="formalParameter" type="xsd:string" use="required"/>
    </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
</xsd:element>
<xsd:element name="connectionPointOutAction" minOccurs="0">
    <xsd:complexType>
        <xsd:complexContent>
            <xsd:extension base="ppx:connectionPointOut">
                <xsd:attribute name="formalParameter" type="xsd:string" use="required"/>
            </xsd:extension>
        </xsd:complexContent>
    </xsd:complexType>
</xsd:element>
<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
</xsd:sequence>
<xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
<xsd:attribute name="height" type="xsd:decimal" use="optional"/>
<xsd:attribute name="width" type="xsd:decimal" use="optional"/>
<xsd:attribute name="name" type="xsd:string" use="required"/>
<xsd:attribute name="initialStep" type="xsd:boolean" use="optional" default="false"/>
<xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>
<xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional">
    <xsd:annotation>
        <xsd:documentation>Used to identify the order of execution. Also used to identify one
special block if there are several blocks with the same name.</xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>
</xsd:element>
<xsd:element name="macroStep">
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="position" type="ppx:position"/>
            <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/>
            <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/>
            <xsd:element name="body" type="ppx:body" minOccurs="0"/>
            <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
            <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
        </xsd:sequence>
        <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
        <xsd:attribute name="height" type="xsd:decimal" use="optional"/>
        <xsd:attribute name="width" type="xsd:decimal" use="optional"/>
        <xsd:attribute name="name" type="xsd:string" use="optional"/>
        <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional">
            <xsd:annotation>
                <xsd:documentation>Used to identify the order of execution. Also used to identify one
special block if there are several blocks with the same name.</xsd:documentation>
            </xsd:annotation>
        </xsd:attribute>
        <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
    </xsd:complexType>
</xsd:element>
<xsd:element name="jumpStep">

```

```

<xsd:annotation>
  <xsd:documentation>Jump to a step, macro step or simultaneous divergence. Acts like a step.
  Predecessor should be a transition.</xsd:documentation>
</xsd:annotation>
<xsd:complexType>
  <xsd:sequence>
    <xsd:element name="position" type="ppx:position"/>
    <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/>
    <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
    <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
  </xsd:sequence>
  <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
  <xsd:attribute name="height" type="xsd:decimal" use="optional"/>
  <xsd:attribute name="width" type="xsd:decimal" use="optional"/>
  <xsd:attribute name="targetName" type="xsd:string" use="required"/>
  <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional">
    <xsd:annotation>
      <xsd:documentation>Used to identify the order of execution. Also used to identify one
      special block if there are several blocks with the same name.</xsd:documentation>
    </xsd:annotation>
  </xsd:attribute>
  <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>
</xsd:element>
<xsd:element name="transition">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="position" type="ppx:position"/>
      <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/>
      <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/>
      <xsd:element name="condition" minOccurs="0">
        <xsd:complexType>
          <xsd:choice>
            <xsd:element name="reference">
              <xsd:complexType>
                <xsd:attribute name="name" type="xsd:string" use="required"/>
              </xsd:complexType>
            </xsd:element>
            <xsd:element name="connectionPointIn" type="ppx:connectionPointIn"/>
            <xsd:element name="inline">
              <xsd:complexType>
                <xsd:complexContent>
                  <xsd:extension base="ppx:body">
                    <xsd:attribute name="name" type="xsd:string" use="required"/>
                  </xsd:extension>
                </xsd:complexContent>
              </xsd:complexType>
            </xsd:element>
          </xsd:choice>
          <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
      <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
    </xsd:sequence>
  <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>

```

```

<xsd:attribute name="height" type="xsd:decimal" use="optional"/>
<xsd:attribute name="width" type="xsd:decimal" use="optional"/>
<xsd:attribute name="priority" type="xsd:unsignedLong" use="optional">
  <xsd:annotation>
    <xsd:documentation>The priority of a transition is evaluated, if the transition is connected to
a selectionDivergence element.</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional">
  <xsd:annotation>
    <xsd:documentation>Used to identify the order of execution. Also used to identify one
special block if there are several blocks with the same name.</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>
</xsd:element>
<xsd:element name="selectionDivergence">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="position" type="ppx:position"/>
      <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/>
      <xsd:element name="connectionPointOut" minOccurs="0" maxOccurs="unbounded">
        <xsd:complexType>
          <xsd:complexContent>
            <xsd:extension base="ppx:connectionPointOut">
              <xsd:attribute name="formalParameter" type="xsd:string" use="required"/>
            </xsd:extension>
          </xsd:complexContent>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
      <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
    <xsd:attribute name="height" type="xsd:decimal" use="optional"/>
    <xsd:attribute name="width" type="xsd:decimal" use="optional"/>
    <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
  </xsd:complexType>
</xsd:element>
<xsd:element name="selectionConvergence">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="position" type="ppx:position"/>
      <xsd:element name="connectionPointIn" minOccurs="0" maxOccurs="unbounded">
        <xsd:complexType>
          <xsd:complexContent>
            <xsd:extension base="ppx:connectionPointIn"/>
          </xsd:complexContent>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/>
      <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
      <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>

```



```

<xsd:attribute name="height" type="xsd:decimal" use="optional"/>
<xsd:attribute name="width" type="xsd:decimal" use="optional"/>
<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>
</xsd:element>
<xsd:element name="simultaneousDivergence">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="position" type="ppx:position"/>
      <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/>
      <xsd:element name="connectionPointOut" minOccurs="0" maxOccurs="unbounded">
        <xsd:complexType>
          <xsd:complexContent>
            <xsd:extension base="ppx:connectionPointOut">
              <xsd:attribute name="formalParameter" type="xsd:string" use="required"/>
            </xsd:extension>
          </xsd:complexContent>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
      <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
    <xsd:attribute name="height" type="xsd:decimal" use="optional"/>
    <xsd:attribute name="width" type="xsd:decimal" use="optional"/>
    <xsd:attribute name="name" type="xsd:string" use="optional"/>
    <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
  </xsd:complexType>
</xsd:element>
<xsd:element name="simultaneousConvergence">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="position" type="ppx:position"/>
      <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"
maxOccurs="unbounded"/>
      <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/>
      <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
      <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
    <xsd:attribute name="height" type="xsd:decimal" use="optional"/>
    <xsd:attribute name="width" type="xsd:decimal" use="optional"/>
    <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
  </xsd:complexType>
</xsd:element>
</xsd:choice>
</xsd:group>

```

element **sfcObjects/step**

<p>diagram</p>	<p>ppx:step</p> <p>A single step in a SFC Sequence. Actions are associated with a step by using an actionBlock element with a connection to the step element</p> <p>attributes</p> <ul style="list-style-type: none"> localId height width name initialStep negated executionOrderId Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name. globalId <p>ppx:position</p> <ul style="list-style-type: none"> ppx:connectionPointIn ppx:connectionPointOut ppx:connectionPointOutAction ppx:addData ppx:documentation 																																																					
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>																																																					
<p>properties</p>	<p>isRef 0 content complex</p>																																																					
<p>children</p>	<p>ppx:position ppx:connectionPointIn ppx:connectionPointOut ppx:connectionPointOutAction ppx:addData ppx:documentation</p>																																																					
<p>attributes</p>	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>localId</td> <td>xsd:unsignedLong</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>height</td> <td>xsd:decimal</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>width</td> <td>xsd:decimal</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>name</td> <td>xsd:string</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>initialStep</td> <td>xsd:boolean</td> <td>optional</td> <td>false</td> <td></td> <td></td> </tr> <tr> <td>negated</td> <td>xsd:boolean</td> <td>optional</td> <td>false</td> <td></td> <td></td> </tr> <tr> <td>executionOrderId</td> <td>xsd:unsignedLong</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	localId	xsd:unsignedLong	required				height	xsd:decimal	optional				width	xsd:decimal	optional				name	xsd:string	required				initialStep	xsd:boolean	optional	false			negated	xsd:boolean	optional	false			executionOrderId	xsd:unsignedLong	optional								<p>documentation Used to identify the order of execution. Also used to identify one special block if</p>
Name	Type	Use	Default	Fixed	annotation																																																	
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initialStep	xsd:boolean	optional	false																																																			
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executionOrderId	xsd:unsignedLong	optional																																																				

	<p>globalId xsd:ID optional</p>	there are several blocks with the same name.
annotation	documentation A single step in a SFC Sequence. Actions are associated with a step by using an actionBlock element with a connection to the step element	
source	<pre> <xsd:element name="step"> <xsd:annotation> <xsd:documentation>A single step in a SFC Sequence. Actions are associated with a step by using an actionBlock element with a connection to the step element</xsd:documentation> </xsd:annotation> <xsd:complexType> <xsd:annotation> <xsd:documentation>Contains actions</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="position" type="ppx:position"/> <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/> <xsd:element name="connectionPointOut" minOccurs="0"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:connectionPointOut"> <xsd:attribute name="formalParameter" type="xsd:string" use="required"/> </xsd:extension> </xsd:complexContent> </xsd:complexType> </xsd:element> <xsd:element name="connectionPointOutAction" minOccurs="0"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:connectionPointOut"> <xsd:attribute name="formalParameter" type="xsd:string" use="required"/> </xsd:extension> </xsd:complexContent> </xsd:complexType> </xsd:element> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/> <xsd:attribute name="height" type="xsd:decimal" use="optional"/> <xsd:attribute name="width" type="xsd:decimal" use="optional"/> <xsd:attribute name="name" type="xsd:string" use="required"/> <xsd:attribute name="initialStep" type="xsd:boolean" use="optional" default="false"/> <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/> <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"> <xsd:annotation> <xsd:documentation>Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.</xsd:documentation> </xsd:annotation> </xsd:attribute> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </pre>	

attribute sfcObjects/step/@localId

type	xsd:unsignedLong
properties	isRef 0 use required
source	<code><xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/></code>

attribute sfcObjects/step/@height

type	xsd:decimal
properties	isRef 0 use optional
source	<code><xsd:attribute name="height" type="xsd:decimal" use="optional"/></code>

attribute sfcObjects/step/@width

type	xsd:decimal
properties	isRef 0 use optional
source	<code><xsd:attribute name="width" type="xsd:decimal" use="optional"/></code>

attribute sfcObjects/step/@name

type	xsd:string
properties	isRef 0 use required
source	<code><xsd:attribute name="name" type="xsd:string" use="required"/></code>

attribute sfcObjects/step/@initialStep

type	xsd:boolean
properties	isRef 0 default false use optional
source	<code><xsd:attribute name="initialStep" type="xsd:boolean" use="optional" default="false"/></code>

attribute sfcObjects/step/@negated

type	xsd:boolean
properties	isRef 0 default false use optional
source	<code><xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/></code>

attribute sfcObjects/step/@executionOrderId

type	xsd:unsignedLong
------	-------------------------

properties	isRef 0 use optional
annotation	documentation Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.
source	<code><xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"> <xsd:annotation> <xsd:documentation>Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.</xsd:documentation> </xsd:annotation> </xsd:attribute></code>

attribute `sfcObjects/step/@globalId`

type	<code>xsd:ID</code>
properties	isRef 0 use optional
source	<code><xsd:attribute name="globalId" type="xsd:ID" use="optional"/></code>

element `sfcObjects/step/position`

diagram							
namespace	<code>http://www.plcopen.org/xml/tc6_0201</code>						
type	ppx:position						
properties	isRef 0 content complex						
attributes	Name	Type	Use	Default	Fixed	annotation	
	<code>x</code>	<code>xsd:decimal</code>	required				
	<code>y</code>	<code>xsd:decimal</code>	required				
source	<code><xsd:element name="position" type="ppx:position"/></code>						

element **sfcObjects/step/connectionPointIn**

<p>diagram</p>													
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>												
<p>type</p>	<p>ppx:connectionPointIn</p>												
<p>properties</p>	<p>isRef 0 minOcc 0 maxOcc 1 content complex</p>												
<p>children</p>	<p>ppx:relPosition ppx:connection ppx:expression ppx:addData</p>												
<p>attributes</p>	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation								
globalId	xsd:ID	optional											
<p>source</p>	<pre><xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/></pre>												

element **sfcObjects/step/connectionPointOut**

diagram	<p>The diagram illustrates the structure of the <code>ppx:connectionPointOut</code> element. It is an extension of the base element <code>ppx:connectionPointOut</code>. The extension is highlighted in yellow and contains the following elements:</p> <ul style="list-style-type: none"> Attributes: <code>globalId</code> (type <code>xsd:ID</code>, optional). Child Elements: <ul style="list-style-type: none"> <code>ppx:relPosition</code> (type <code>xsd:string</code>, optional): Relative position of the connection pin. Origin is the anchor position of the block. <code>ppx:expression</code> (type <code>xsd:string</code>, optional): The operand is a valid iec variable e.g. <code>avar[0]</code>. <code>ppx:addData</code> (type <code>xsd:string</code>, optional). Formal Parameter: <code>formalParameter</code> (type <code>xsd:string</code>, required). 							
namespace	http://www.plcopen.org/xml/tc6_0201							
type	extension of ppx:connectionPointOut							
properties	isRef	0	minOcc	0	maxOcc	1	content	complex
children	ppx:relPosition ppx:expression ppx:addData							
attributes	Name	Type	Use	Default	Fixed	Use	annotation	
	globalId	xsd:ID	optional					
	formalParameter	xsd:string	required					
source	<pre><xsd:element name="connectionPointOut" minOccurs="0"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:connectionPointOut"> <xsd:attribute name="formalParameter" type="xsd:string" use="required"/> </xsd:extension> </xsd:complexContent> </xsd:complexType> </xsd:element></pre>							

attribute **sfcObjects/step/connectionPointOut/@formalParameter**

type	xsd:string
properties	isRef 0 use required
source	<code><xsd:attribute name="formalParameter" type="xsd:string" use="required"/></code>

element **sfcObjects/step/connectionPointOutAction**

diagram								
namespace	http://www.plcopen.org/xml/tc6_0201							
type	extension of ppx:connectionPointOut							
properties	isRef	0	minOcc	0	maxOcc	1	content	complex
children	ppx:relPosition ppx:expression ppx:addData							
attributes	Name	Type	Use	Default	Fixed	Use	annotation	
	globalId	xsd:ID	optional					
	formalParameter	xsd:string	required					
source	<pre> <xsd:element name="connectionPointOutAction" minOccurs="0"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:connectionPointOut"> <xsd:attribute name="formalParameter" type="xsd:string" use="required"/> </xsd:extension> </xsd:complexContent> </xsd:complexType> </xsd:element> </pre>							

attribute **sfcObjects/step/connectionPointOutAction/@formalParameter**

type	xsd:string
properties	isRef 0 use required
source	<pre><xsd:attribute name="formalParameter" type="xsd:string" use="required"/></pre>

element **sfcObjects/step/addData**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<code><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></code>

element **sfcObjects/step/documentation**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
source	<code><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></code>

element **sfcObjects/macroStep**

<p>diagram</p>																																											
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>																																										
<p>properties</p>	<p>isRef 0 content complex</p>																																										
<p>children</p>	<p>ppx:position ppx:connectionPointIn ppx:connectionPointOut ppx:body ppx:addData ppx:documentation</p>																																										
<p>attributes</p>	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>localId</td> <td>xsd:unsignedLong</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>height</td> <td>xsd:decimal</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>width</td> <td>xsd:decimal</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>name</td> <td>xsd:string</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>executionOrderId</td> <td>xsd:unsignedLong</td> <td>optional</td> <td></td> <td></td> <td>documentation Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.</td> </tr> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	localId	xsd:unsignedLong	required				height	xsd:decimal	optional				width	xsd:decimal	optional				name	xsd:string	optional				executionOrderId	xsd:unsignedLong	optional			documentation Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.	globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation																																						
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height	xsd:decimal	optional																																									
width	xsd:decimal	optional																																									
name	xsd:string	optional																																									
executionOrderId	xsd:unsignedLong	optional			documentation Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.																																						
globalId	xsd:ID	optional																																									
<p>source</p>	<pre><xsd:element name="macroStep"> <xsd:complexType></pre>																																										

	<pre> <xsd:sequence> <xsd:element name="position" type="ppx:position"/> <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/> <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/> <xsd:element name="body" type="ppx:body" minOccurs="0"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/> <xsd:attribute name="height" type="xsd:decimal" use="optional"/> <xsd:attribute name="width" type="xsd:decimal" use="optional"/> <xsd:attribute name="name" type="xsd:string" use="optional"/> <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/> <xsd:annotation> <xsd:documentation>Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.</xsd:documentation> </xsd:annotation> </xsd:attribute> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </pre>
--	---

attribute **sfcObjects/macroStep/@localId**

type	xsd:unsignedLong
properties	isRef 0 use required
source	<xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>

attribute **sfcObjects/macroStep/@height**

type	xsd:decimal
properties	isRef 0 use optional
source	<xsd:attribute name="height" type="xsd:decimal" use="optional"/>

attribute **sfcObjects/macroStep/@width**

type	xsd:decimal
properties	isRef 0 use optional
source	<xsd:attribute name="width" type="xsd:decimal" use="optional"/>

attribute **sfcObjects/macroStep/@name**

type	xsd:string
properties	isRef 0 use optional
source	<xsd:attribute name="name" type="xsd:string" use="optional"/>

attribute **sfcObjects/macroStep/@executionOrderId**

type	xsd:unsignedLong
properties	isRef 0 use optional
annotation	documentation Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.
source	<code><xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"> <xsd:annotation> <xsd:documentation>Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.</xsd:documentation> </xsd:annotation> </xsd:attribute></code>

attribute **sfcObjects/macroStep/@globalId**

type	xsd:ID
properties	isRef 0 use optional
source	<code><xsd:attribute name="globalId" type="xsd:ID" use="optional"/></code>

element **sfcObjects/macroStep/position**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:position					
properties	isRef 0 content complex					
attributes	Name	Type	Use	Default	Fixed	annotation
	x	xsd:decimal	required			
	y	xsd:decimal	required			
source	<code><xsd:element name="position" type="ppx:position"/></code>					

element **sfcObjects/macroStep/connectionPointIn**

<p>diagram</p>													
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>												
<p>type</p>	<p>ppx:connectionPointIn</p>												
<p>properties</p>	<p>isRef 0 minOcc 0 maxOcc 1 content complex</p>												
<p>children</p>	<p>ppx:relPosition ppx:connection ppx:expression ppx:addData</p>												
<p>attributes</p>	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation								
globalId	xsd:ID	optional											
<p>source</p>	<p><code><xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/></code></p>												

element **sfcObjects/macroStep/connectionPointOut**

diagram													
namespace	http://www.plcopen.org/xml/tc6_0201												
type	ppx:connectionPointOut												
properties	isRef 0 minOcc 0 maxOcc 1 content complex												
children	ppx:relPosition ppx:expression ppx:addData												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation								
globalId	xsd:ID	optional											
source	<code><xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/></code>												

element **sfcObjects/macroStep/body**

diagram	<p>The diagram shows the structure of the <code>ppx:body</code> element. It is a complex type containing an <code>attributes</code> block with <code>WorksheetName</code> and <code>globalId</code>. The main content consists of a sequence of <code>ppx:IL</code>, <code>ppx:ST</code>, <code>ppx:FBD</code>, <code>ppx:LD</code>, and <code>ppx:SFC</code> elements. Additionally, it contains optional <code>ppx:addData</code> and <code>ppx:documentation</code> elements. A note indicates that <code>ppx:addData</code> and <code>ppx:documentation</code> provide additional userspecific information to the element.</p>							
namespace	http://www.plcopen.org/xml/tc6_0201							
type	ppx:body							
properties	isRef	0	minOcc	0	maxOcc	1	content	complex
children	ppx:IL ppx:ST ppx:FBD ppx:LD ppx:SFC ppx:addData ppx:documentation							
attributes	Name	Type	Use	Default	Fixed	annotation		
	WorksheetName	xsd:string	optional					
	globalId	xsd:ID	optional					
source	<code><xsd:element name="body" type="ppx:body" minOccurs="0"/></code>							

element **sfcObjects/macroStep/addData**

diagram	<p>The diagram shows the structure of the <code>ppx:addData</code> element. It is a complex type containing a <code>ppx:data</code> element. The <code>ppx:data</code> element has a cardinality of <code>0..∞</code>.</p>							
namespace	http://www.plcopen.org/xml/tc6_0201							
type	ppx:addData							
properties	isRef	0	minOcc	0				

	maxOcc 1 content complex
children	ppx:data
source	<code><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></code>

element `sfcObjects/macroStep/documentation`

diagram	<p>The diagram shows a dashed box labeled <code>ppx:documentation</code> connected to a solid box labeled <code>ppx:formattedText</code>. The <code>ppx:formattedText</code> box contains a sub-element <code>any http://www.w3.org/1999/xhtml</code>.</p>
namespace	<code>http://www.plcopen.org/xml/tc6_0201</code>
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
source	<code><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></code>

element `sfcObjects/jumpStep`

diagram	<p>The diagram shows a box for <code>ppx:jumpStep</code> with the description: "Jump to a step, macro step or simultaneous divergence. Acts like a step. Predecessor should be a transition." This box is connected to a larger box containing a list of attributes: <code>localId</code>, <code>height</code>, <code>width</code>, <code>targetName</code>, <code>executionOrderId</code>, and <code>globalId</code>. A note for <code>executionOrderId</code> states: "Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name." Below the attributes box is a connector leading to a list of child elements: <code>ppx:position</code>, <code>ppx:connectionPointIn</code>, <code>ppx:addData</code>, and <code>ppx:documentation</code>.</p>
namespace	<code>http://www.plcopen.org/xml/tc6_0201</code>
properties	isRef 0 content complex

children	ppx:position ppx:connectionPointIn ppx:addData ppx:documentation					
attributes	Name	Type	Use	Default	Fixed	annotation
	localId	xsd:unsignedLong	required			
	height	xsd:decimal	optional			
	width	xsd:decimal	optional			
	targetName	xsd:string	required			
	executionOrderId	xsd:unsignedLong	optional			documentation Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.
	globalId	xsd:ID	optional			
annotation	documentation Jump to a step, macro step or simultaneous divergence. Acts like a step. Predecessor should be a transition.					
source	<pre> <xsd:element name="jumpStep"> <xsd:annotation> <xsd:documentation>Jump to a step, macro step or simultaneous divergence. Acts like a step. Predecessor should be a transition.</xsd:documentation> </xsd:annotation> <xsd:complexType> <xsd:sequence> <xsd:element name="position" type="ppx:position"/> <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/> <xsd:attribute name="height" type="xsd:decimal" use="optional"/> <xsd:attribute name="width" type="xsd:decimal" use="optional"/> <xsd:attribute name="targetName" type="xsd:string" use="required"/> <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"/> </xsd:complexType> <xsd:annotation> <xsd:documentation>Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.</xsd:documentation> </xsd:annotation> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:element> </pre>					

attribute `sfcObjects/jumpStep/@localId`

type	xsd:unsignedLong
properties	isRef 0 use required
source	<code><xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/></code>

attribute **sfcObjects/jumpStep/@height**

type	xsd:decimal
properties	isRef 0 use optional
source	<code><xsd:attribute name="height" type="xsd:decimal" use="optional"/></code>

attribute **sfcObjects/jumpStep/@width**

type	xsd:decimal
properties	isRef 0 use optional
source	<code><xsd:attribute name="width" type="xsd:decimal" use="optional"/></code>

attribute **sfcObjects/jumpStep/@targetName**

type	xsd:string
properties	isRef 0 use required
source	<code><xsd:attribute name="targetName" type="xsd:string" use="required"/></code>

attribute **sfcObjects/jumpStep/@executionOrderId**

type	xsd:unsignedLong
properties	isRef 0 use optional
annotation	documentation Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.
source	<code><xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"></code> <code><xsd:annotation></code> <code><xsd:documentation>Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.</xsd:documentation></code> <code></xsd:annotation></code> <code></xsd:attribute></code>

attribute **sfcObjects/jumpStep/@globalId**

type	xsd:ID
properties	isRef 0 use optional
source	<code><xsd:attribute name="globalId" type="xsd:ID" use="optional"/></code>

element **sfcObjects/jumpStep/position**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:position					
properties	isRef	0	content	complex		
attributes	Name	Type	Use	Default	Fixed	annotation
	x	xsd:decimal	required			
	y	xsd:decimal	required			
source	<xsd:element name="position" type="ppx:position"/>					

element **sfcObjects/jumpStep/connectionPointIn**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:connectionPointIn					
properties	isRef	0	minOcc	0		

	maxOcc content	1 complex				
children	ppx:relPosition ppx:connection ppx:expression ppx:addData					
attributes	Name globalId	Type xsd:ID	Use optional	Default	Fixed	annotation
source	<xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/>					

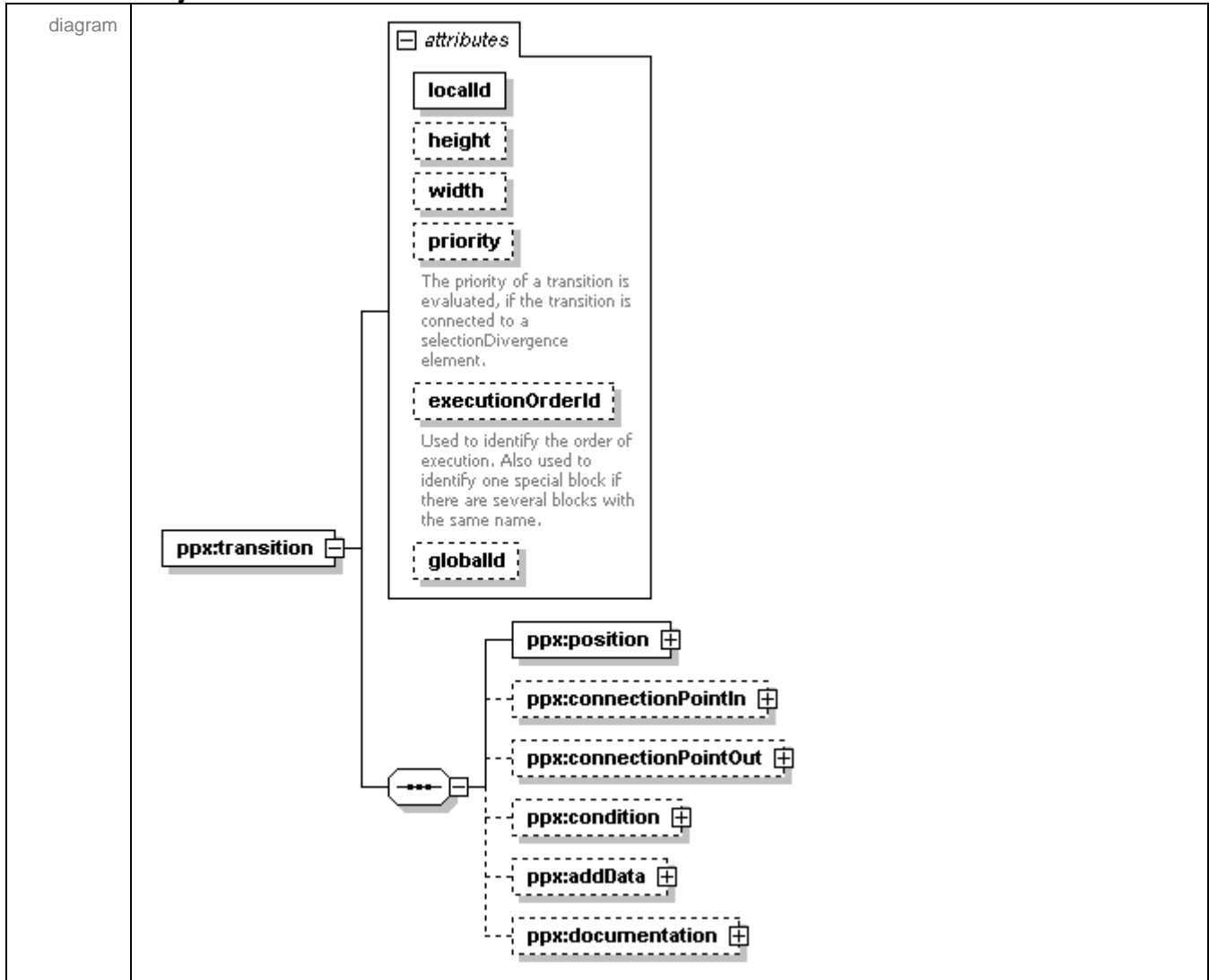
element **sfcObjects/jumpStep/addData**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:addData					
properties	isRef	0	minOcc	0	maxOcc	1
	content	complex				
children	ppx:data					
source	<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>					

element **sfcObjects/jumpStep/documentation**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:formattedText					
properties	isRef	0	minOcc	0	maxOcc	1
	content	complex				
source	<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>					

element **sfcObjects/transition**



namespace http://www.plcopen.org/xml/tc6_0201

properties isRef 0 content complex

children [ppx:position](#) [ppx:connectionPointIn](#) [ppx:connectionPointOut](#) [ppx:condition](#) [ppx:addData](#) [ppx:documentation](#)

attributes	Name	Type	Use	Default	Fixed	annotation
	localId	xsd:unsignedLong	required			
	height	xsd:decimal	optional			
	width	xsd:decimal	optional			
	priority	xsd:unsignedLong	optional			documentation The priority of a transition is evaluated, if the transition is connected to a selectionDivergence element.
	executionOrderId	xsd:unsignedLong	optional			documentation Used to identify the order of execution. Also used to identify one special block if

	<p><u>globalId</u> xsd:ID optional</p>	<p>there are several blocks with the same name.</p>
<p>source</p>	<pre> <xsd:element name="transition"> <xsd:complexType> <xsd:sequence> <xsd:element name="position" type="ppx:position"/> <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/> <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/> <xsd:element name="condition" minOccurs="0"> <xsd:complexType> <xsd:choice> <xsd:element name="reference"> <xsd:complexType> <xsd:attribute name="name" type="xsd:string" use="required"/> </xsd:complexType> </xsd:element> <xsd:element name="connectionPointIn" type="ppx:connectionPointIn"/> <xsd:element name="inline"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:body"> <xsd:attribute name="name" type="xsd:string" use="required"/> </xsd:extension> </xsd:complexContent> </xsd:complexType> </xsd:element> </xsd:choice> <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/> </xsd:complexType> </xsd:element> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/> <xsd:attribute name="height" type="xsd:decimal" use="optional"/> <xsd:attribute name="width" type="xsd:decimal" use="optional"/> <xsd:attribute name="priority" type="xsd:unsignedLong" use="optional"> <xsd:annotation> <xsd:documentation>The priority of a transition is evaluated, if the transition is connected to a selectionDivergence element.</xsd:documentation> </xsd:annotation> </xsd:attribute> <xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"> <xsd:annotation> <xsd:documentation>Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.</xsd:documentation> </xsd:annotation> </xsd:attribute> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </pre>	

attribute **sfcObjects/transition/@localId**

type	xsd:unsignedLong
properties	isRef 0 use required
source	<code><xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/></code>

attribute **sfcObjects/transition/@height**

type	xsd:decimal
properties	isRef 0 use optional
source	<code><xsd:attribute name="height" type="xsd:decimal" use="optional"/></code>

attribute **sfcObjects/transition/@width**

type	xsd:decimal
properties	isRef 0 use optional
source	<code><xsd:attribute name="width" type="xsd:decimal" use="optional"/></code>

attribute **sfcObjects/transition/@priority**

type	xsd:unsignedLong
properties	isRef 0 use optional
annotation	documentation The priority of a transition is evaluated, if the transition is connected to a selectionDivergence element.
source	<code><xsd:attribute name="priority" type="xsd:unsignedLong" use="optional"> <xsd:annotation> <xsd:documentation>The priority of a transition is evaluated, if the transition is connected to a selectionDivergence element.</xsd:documentation> </xsd:annotation> </xsd:attribute></code>

attribute **sfcObjects/transition/@executionOrderId**

type	xsd:unsignedLong
properties	isRef 0 use optional
annotation	documentation Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.
source	<code><xsd:attribute name="executionOrderId" type="xsd:unsignedLong" use="optional"> <xsd:annotation> <xsd:documentation>Used to identify the order of execution. Also used to identify one special block if there are several blocks with the same name.</xsd:documentation> </xsd:annotation> </xsd:attribute></code>

attribute **sfcObjects/transition/@globalId**

type	xsd:ID
properties	isRef 0 use optional
source	<code><xsd:attribute name="globalId" type="xsd:ID" use="optional"/></code>

element **sfcObjects/transition/position**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:position					
properties	isRef	0	content	complex		
attributes	Name	Type	Use	Default	Fixed	annotation
	x	xsd:decimal	required			
	y	xsd:decimal	required			
source	<code><xsd:element name="position" type="ppx:position"/></code>					

element **sfcObjects/transition/connectionPointIn**

<p>diagram</p>													
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>												
<p>type</p>	<p>ppx:connectionPointIn</p>												
<p>properties</p>	<p>isRef 0 minOcc 0 maxOcc 1 content complex</p>												
<p>children</p>	<p>ppx:relPosition ppx:connection ppx:expression ppx:addData</p>												
<p>attributes</p>	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation								
globalId	xsd:ID	optional											
<p>source</p>	<p><code><xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/></code></p>												

element **sfcObjects/transition/connectionPointOut**

diagram								
namespace	http://www.plcopen.org/xml/tc6_0201							
type	ppx:connectionPointOut							
properties	isRef	0	minOcc	0	maxOcc	1	content	complex
children	ppx:relPosition ppx:expression ppx:addData							
attributes	Name	Type	Use	Default	Fixed	annotation		
	globalId	xsd:ID	optional					
source	<code><xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/></code>							

element **sfcObjects/transition/condition**

diagram								
namespace	http://www.plcopen.org/xml/tc6_0201							
properties	isRef	0	minOcc	0	maxOcc	1	content	complex
children	ppx:reference ppx:connectionPointIn ppx:inline							
attributes	Name	Type	Use	Default	Fixed	annotation		
	negated	xsd:boolean	optional	false				

source	<pre> <xsd:element name="condition" minOccurs="0"> <xsd:complexType> <xsd:choice> <xsd:element name="reference"> <xsd:complexType> <xsd:attribute name="name" type="xsd:string" use="required"/> </xsd:complexType> </xsd:element> <xsd:element name="connectionPointIn" type="ppx:connectionPointIn"/> <xsd:element name="inline"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:body"> <xsd:attribute name="name" type="xsd:string" use="required"/> </xsd:extension> </xsd:complexContent> </xsd:complexType> </xsd:element> </xsd:choice> <xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/> </xsd:complexType> </xsd:element> </pre>
--------	--

attribute **sfcObjects/transition/condition/@negated**

type	xsd:boolean
properties	isRef 0 default false use optional
source	<pre><xsd:attribute name="negated" type="xsd:boolean" use="optional" default="false"/></pre>

element **sfcObjects/transition/condition/reference**

diagram													
namespace	http://www.plcopen.org/xml/tc6_0201												
properties	isRef 0 content complex												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>name</td> <td>xsd:string</td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	name	xsd:string	required			
Name	Type	Use	Default	Fixed	annotation								
name	xsd:string	required											
source	<pre> <xsd:element name="reference"> <xsd:complexType> <xsd:attribute name="name" type="xsd:string" use="required"/> </xsd:complexType> </xsd:element> </pre>												

attribute **sfcObjects/transition/condition/reference/@name**

type	xsd:string
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properties	isRef 0 use required
source	<xsd:attribute name="name" type="xsd:string" use="required"/>

element **sfcObjects/transition/condition/connectionPointIn**

diagram													
namespace	http://www.plcopen.org/xml/tc6_0201												
type	ppx:connectionPointIn												
properties	isRef 0 content complex												
children	ppx:relPosition ppx:connection ppx:expression ppx:addData												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation								
globalId	xsd:ID	optional											
source	<xsd:element name="connectionPointIn" type="ppx:connectionPointIn"/>												

element **sfcObjects/transition/condition/inline**

<p>diagram</p>																									
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>																								
<p>type</p>	<p>extension of ppx:body</p>																								
<p>properties</p>	<p>isRef 0 content complex</p>																								
<p>children</p>	<p>ppx:IL ppx:ST ppx:FBD ppx:LD ppx:SFC ppx:addData ppx:documentation</p>																								
<p>attributes</p>	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>WorksheetName</td> <td>xsd:string</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>name</td> <td>xsd:string</td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	WorksheetName	xsd:string	optional				globalId	xsd:ID	optional				name	xsd:string	required			
Name	Type	Use	Default	Fixed	annotation																				
WorksheetName	xsd:string	optional																							
globalId	xsd:ID	optional																							
name	xsd:string	required																							
<p>source</p>	<pre><xsd:element name="inline"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:body"> <xsd:attribute name="name" type="xsd:string" use="required"/> </xsd:extension> </xsd:complexContent> </xsd:complexType> </xsd:element></pre>																								

attribute **sfcObjects/transition/condition/inline/@name**

type	xsd:string
properties	isRef 0 use required
source	<code><xsd:attribute name="name" type="xsd:string" use="required"/></code>

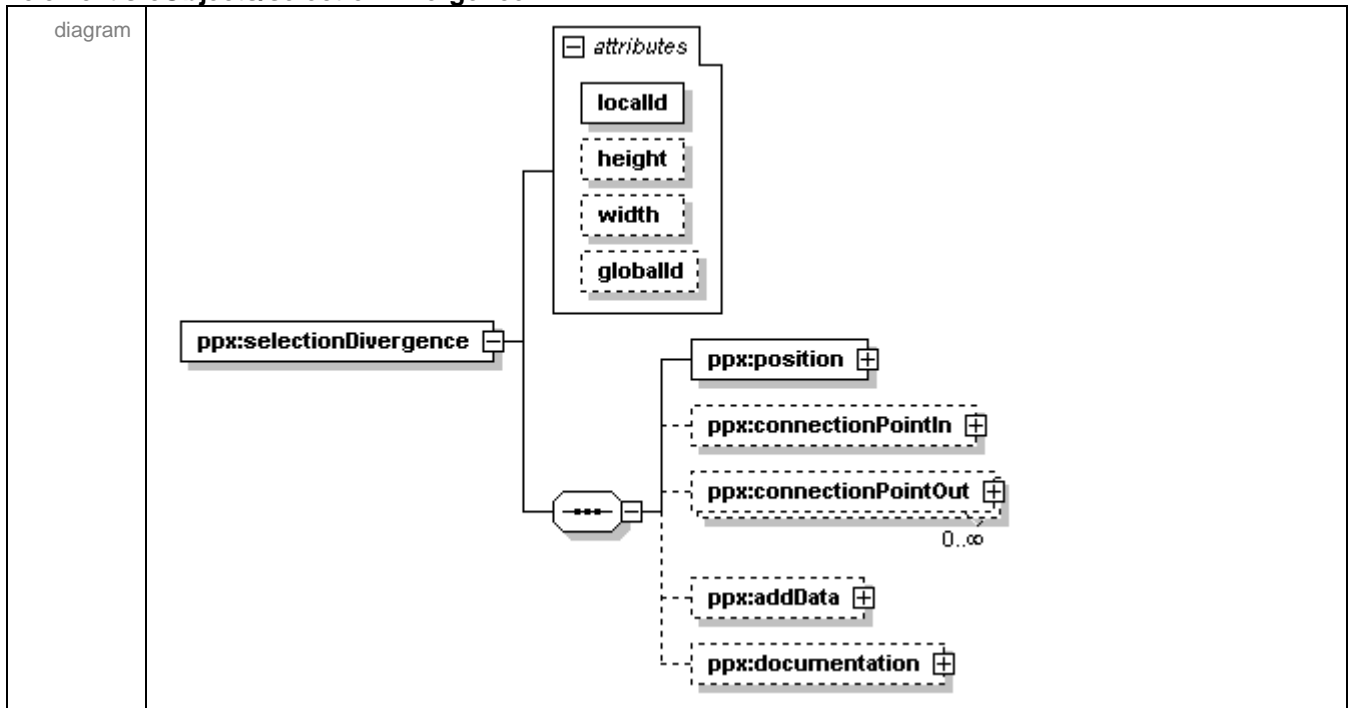
element **sfcObjects/transition/addData**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<code><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></code>

element **sfcObjects/transition/documentation**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
source	<code><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></code>

element **sfcObjects/selectionDivergence**



namespace http://www.plcopen.org/xml/tc6_0201

properties isRef 0
content complex

children [ppx:position](#) [ppx:connectionPointIn](#) [ppx:connectionPointOut](#) [ppx:addData](#) [ppx:documentation](#)

attributes	Name	Type	Use	Default	Fixed	annotation
	localId	xsd:unsignedLong	required			
	height	xsd:decimal	optional			
	width	xsd:decimal	optional			
	globalId	xsd:ID	optional			

```

<xsd:element name="selectionDivergence">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="position" type="ppx:position"/>
      <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/>
      <xsd:element name="connectionPointOut" minOccurs="0" maxOccurs="unbounded">
        <xsd:complexType>
          <xsd:complexContent>
            <xsd:extension base="ppx:connectionPointOut">
              <xsd:attribute name="formalParameter" type="xsd:string" use="required"/>
            </xsd:extension>
          </xsd:complexContent>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
      <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
    </xsd:sequence>
    <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>
    <xsd:attribute name="height" type="xsd:decimal" use="optional"/>
    <xsd:attribute name="width" type="xsd:decimal" use="optional"/>
    <xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
  </xsd:complexType>
</xsd:element>
  
```


	x	xsd:decimal	required
	y	xsd:decimal	required
source	<xsd:element name="position" type="ppx:position"/>		

element **sfcObjects/selectionDivergence/connectionPointIn**

diagram								
namespace	http://www.plcopen.org/xml/tc6_0201							
type	ppx:connectionPointIn							
properties	isRef	0	minOcc	0	maxOcc	1	content	complex
children	ppx:relPosition ppx:connection ppx:expression ppx:addData							
attributes	Name	Type	Use	Default	Fixed	annotation		
	globalId	xsd:ID	optional					
source	<xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/>							

element **sfcObjects/selectionDivergence/connectionPointOut**

diagram																			
namespace	http://www.plcopen.org/xml/tc6_0201																		
type	extension of ppx:connectionPointOut																		
properties	<table border="0"> <tr><td>isRef</td><td>0</td></tr> <tr><td>minOcc</td><td>0</td></tr> <tr><td>maxOcc</td><td>unbounded</td></tr> <tr><td>content</td><td>complex</td></tr> </table>	isRef	0	minOcc	0	maxOcc	unbounded	content	complex										
isRef	0																		
minOcc	0																		
maxOcc	unbounded																		
content	complex																		
children	ppx:relPosition ppx:expression ppx:addData																		
attributes	<table border="0"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>formalParameter</td> <td>xsd:string</td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	globalId	xsd:ID	optional				formalParameter	xsd:string	required			
Name	Type	Use	Default	Fixed	annotation														
globalId	xsd:ID	optional																	
formalParameter	xsd:string	required																	
source	<pre><xsd:element name="connectionPointOut" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:connectionPointOut"> <xsd:attribute name="formalParameter" type="xsd:string" use="required"/> </xsd:extension> </xsd:complexContent> </xsd:complexType> </xsd:element></pre>																		

attribute **sfcObjects/selectionDivergence/connectionPointOut/@formalParameter**

type	xsd:string				
properties	<table border="0"> <tr><td>isRef</td><td>0</td></tr> <tr><td>use</td><td>required</td></tr> </table>	isRef	0	use	required
isRef	0				
use	required				
source	<pre><xsd:attribute name="formalParameter" type="xsd:string" use="required"/></pre>				

element **sfcObjects/selectionDivergence/addData**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<code><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></code>

element **sfcObjects/selectionDivergence/documentation**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
source	<code><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></code>

element **sfcObjects/selectionConvergence**

diagram																															
namespace	http://www.plcopen.org/xml/tc6_0201																														
properties	isRef 0 content complex																														
children	ppx:position ppx:connectionPointIn ppx:connectionPointOut ppx:addData ppx:documentation																														
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>localId</td> <td>xsd:unsignedLong</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>height</td> <td>xsd:decimal</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>width</td> <td>xsd:decimal</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	localId	xsd:unsignedLong	required				height	xsd:decimal	optional				width	xsd:decimal	optional				globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation																										
localId	xsd:unsignedLong	required																													
height	xsd:decimal	optional																													
width	xsd:decimal	optional																													
globalId	xsd:ID	optional																													
source	<pre> <xsd:element name="selectionConvergence"> <xsd:complexType> <xsd:sequence> <xsd:element name="position" type="ppx:position"/> <xsd:element name="connectionPointIn" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:connectionPointIn"/> </xsd:complexContent> </xsd:complexType> </xsd:element> <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/> <xsd:attribute name="height" type="xsd:decimal" use="optional"/> <xsd:attribute name="width" type="xsd:decimal" use="optional"/> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </pre>																														

attribute **sfcObjects/selectionConvergence/@localId**

type	xsd:unsignedLong
properties	isRef 0 use required
source	<code><xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/></code>

attribute **sfcObjects/selectionConvergence/@height**

type	xsd:decimal
properties	isRef 0 use optional
source	<code><xsd:attribute name="height" type="xsd:decimal" use="optional"/></code>

attribute **sfcObjects/selectionConvergence/@width**

type	xsd:decimal
properties	isRef 0 use optional
source	<code><xsd:attribute name="width" type="xsd:decimal" use="optional"/></code>

attribute **sfcObjects/selectionConvergence/@globalId**

type	xsd:ID
properties	isRef 0 use optional
source	<code><xsd:attribute name="globalId" type="xsd:ID" use="optional"/></code>

element **sfcObjects/selectionConvergence/position**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:position					
properties	isRef 0 content complex					
attributes	Name	Type	Use	Default	Fixed	annotation
	x	xsd:decimal	required			
	y	xsd:decimal	required			

source	<xsd:element name="position" type="ppx:position"/>
--------	--

element **sfcObjects/selectionConvergence/connectionPointIn**

diagram													
namespace	http://www.plcopen.org/xml/tc6_0201												
type	extension of ppx:connectionPointIn												
properties	<table border="0"> <tr><td>isRef</td><td>0</td></tr> <tr><td>minOcc</td><td>0</td></tr> <tr><td>maxOcc</td><td>unbounded</td></tr> <tr><td>content</td><td>complex</td></tr> </table>	isRef	0	minOcc	0	maxOcc	unbounded	content	complex				
isRef	0												
minOcc	0												
maxOcc	unbounded												
content	complex												
children	ppx:relPosition ppx:connection ppx:expression ppx:addData												
attributes	<table border="0"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation								
globalId	xsd:ID	optional											
source	<pre><xsd:element name="connectionPointIn" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:connectionPointIn"/> </xsd:complexContent> </xsd:complexType> </xsd:element></pre>												

element **sfcObjects/selectionConvergence/connectionPointOut**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:connectionPointOut					
properties	isRef	0	minOcc	0	maxOcc	1
content	complex					
children	ppx:relPosition ppx:expression ppx:addData					
attributes	Name	Type	Use	Default	Fixed	annotation
	globalId	xsd:ID	optional			
source	<code><xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/></code>					

element **sfcObjects/selectionConvergence/addData**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:addData					
properties	isRef	0	minOcc	0	maxOcc	1
content	complex					
children	ppx:data					
source	<code><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></code>					

element **sfcObjects/selectionConvergence/documentation**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
source	<code><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></code>

element **sfcObjects/simultaneousDivergence**

diagram																																					
namespace	http://www.plcopen.org/xml/tc6_0201																																				
properties	isRef 0 content complex																																				
children	ppx:position ppx:connectionPointIn ppx:connectionPointOut ppx:addData ppx:documentation																																				
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>localId</td> <td>xsd:unsignedLong</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>height</td> <td>xsd:decimal</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>width</td> <td>xsd:decimal</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>name</td> <td>xsd:string</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	localId	xsd:unsignedLong	required				height	xsd:decimal	optional				width	xsd:decimal	optional				name	xsd:string	optional				globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation																																
localId	xsd:unsignedLong	required																																			
height	xsd:decimal	optional																																			
width	xsd:decimal	optional																																			
name	xsd:string	optional																																			
globalId	xsd:ID	optional																																			
source	<code><xsd:element name="simultaneousDivergence"></code>																																				

	<pre> <xsd:complexType> <xsd:sequence> <xsd:element name="position" type="ppx:position"/> <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/> <xsd:element name="connectionPointOut" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:connectionPointOut"> <xsd:attribute name="formalParameter" type="xsd:string" use="required"/> </xsd:extension> </xsd:complexContent> </xsd:complexType> </xsd:element> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/> <xsd:attribute name="height" type="xsd:decimal" use="optional"/> <xsd:attribute name="width" type="xsd:decimal" use="optional"/> <xsd:attribute name="name" type="xsd:string" use="optional"/> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </pre>
--	--

attribute sfcObjects/simultaneousDivergence/@localId

type	xsd:unsignedLong
properties	isRef 0 use required
source	<xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>

attribute sfcObjects/simultaneousDivergence/@height

type	xsd:decimal
properties	isRef 0 use optional
source	<xsd:attribute name="height" type="xsd:decimal" use="optional"/>

attribute sfcObjects/simultaneousDivergence/@width

type	xsd:decimal
properties	isRef 0 use optional
source	<xsd:attribute name="width" type="xsd:decimal" use="optional"/>

attribute sfcObjects/simultaneousDivergence/@name

type	xsd:string
properties	isRef 0 use optional

source	<code><xsd:attribute name="name" type="xsd:string" use="optional"/></code>
--------	--

attribute **sfcObjects/simultaneousDivergence/@globalId**

type	xsd:ID
properties	isRef 0 use optional
source	<code><xsd:attribute name="globalId" type="xsd:ID" use="optional"/></code>

element **sfcObjects/simultaneousDivergence/position**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:position					
properties	isRef	0	content	complex		
attributes	Name	Type	Use	Default	Fixed	annotation
	x	xsd:decimal	required			
	y	xsd:decimal	required			
source	<code><xsd:element name="position" type="ppx:position"/></code>					

element **sfcObjects/simultaneousDivergence/connectionPointIn**

<p>diagram</p>													
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>												
<p>type</p>	<p>ppx:connectionPointIn</p>												
<p>properties</p>	<p>isRef 0 minOcc 0 maxOcc 1 content complex</p>												
<p>children</p>	<p>ppx:relPosition ppx:connection ppx:expression ppx:addData</p>												
<p>attributes</p>	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation								
globalId	xsd:ID	optional											
<p>source</p>	<p><code><xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0"/></code></p>												

element **sfcObjects/simultaneousDivergence/connectionPointOut**

diagram																			
namespace	http://www.plcopen.org/xml/tc6_0201																		
type	extension of ppx:connectionPointOut																		
properties	<table border="0"> <tr><td>isRef</td><td>0</td></tr> <tr><td>minOcc</td><td>0</td></tr> <tr><td>maxOcc</td><td>unbounded</td></tr> <tr><td>content</td><td>complex</td></tr> </table>	isRef	0	minOcc	0	maxOcc	unbounded	content	complex										
isRef	0																		
minOcc	0																		
maxOcc	unbounded																		
content	complex																		
children	ppx:relPosition ppx:expression ppx:addData																		
attributes	<table border="0"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>formalParameter</td> <td>xsd:string</td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	globalId	xsd:ID	optional				formalParameter	xsd:string	required			
Name	Type	Use	Default	Fixed	annotation														
globalId	xsd:ID	optional																	
formalParameter	xsd:string	required																	
source	<pre><xsd:element name="connectionPointOut" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:connectionPointOut"> <xsd:attribute name="formalParameter" type="xsd:string" use="required"/> </xsd:extension> </xsd:complexContent> </xsd:complexType> </xsd:element></pre>																		

attribute **sfcObjects/simultaneousDivergence/connectionPointOut/@formalParameter**

type	xsd:string				
properties	<table border="0"> <tr><td>isRef</td><td>0</td></tr> <tr><td>use</td><td>required</td></tr> </table>	isRef	0	use	required
isRef	0				
use	required				
source	<pre><xsd:attribute name="formalParameter" type="xsd:string" use="required"/></pre>				

element **sfcObjects/simultaneousDivergence/addData**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<code><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></code>

element **sfcObjects/simultaneousDivergence/documentation**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
source	<code><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></code>

element **sfcObjects/simultaneousConvergence**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
properties	isRef	0	content	complex		
children	ppx:position ppx:connectionPointIn ppx:connectionPointOut ppx:addData ppx:documentation					
attributes	Name	Type	Use	Default	Fixed	annotation
	localId	xsd:unsignedLong	required			
	height	xsd:decimal	optional			
	width	xsd:decimal	optional			
	globalId	xsd:ID	optional			
source	<pre> <xsd:element name="simultaneousConvergence"> <xsd:complexType> <xsd:sequence> <xsd:element name="position" type="ppx:position"/> <xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0" maxOccurs="unbounded"/> <xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/> <xsd:attribute name="height" type="xsd:decimal" use="optional"/> <xsd:attribute name="width" type="xsd:decimal" use="optional"/> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </pre>					

attribute **sfcObjects/simultaneousConvergence/@localId**

type	xsd:unsignedLong
------	-------------------------

properties	isRef 0 use required
source	<xsd:attribute name="localId" type="xsd:unsignedLong" use="required"/>

attribute **sfcObjects/simultaneousConvergence/@height**

type	xsd:decimal
properties	isRef 0 use optional
source	<xsd:attribute name="height" type="xsd:decimal" use="optional"/>

attribute **sfcObjects/simultaneousConvergence/@width**

type	xsd:decimal
properties	isRef 0 use optional
source	<xsd:attribute name="width" type="xsd:decimal" use="optional"/>

attribute **sfcObjects/simultaneousConvergence/@globalId**

type	xsd:ID
properties	isRef 0 use optional
source	<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>

element **sfcObjects/simultaneousConvergence/position**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:position					
properties	isRef 0 content complex					
attributes	Name	Type	Use	Default	Fixed	annotation
	x	xsd:decimal	required			
	y	xsd:decimal	required			
source	<xsd:element name="position" type="ppx:position"/>					

element **sfcObjects/simultaneousConvergence/connectionPointIn**

<p>diagram</p>													
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>												
<p>type</p>	<p>ppx:connectionPointIn</p>												
<p>properties</p>	<p>isRef 0 minOcc 0 maxOcc unbounded content complex</p>												
<p>children</p>	<p>ppx:relPosition ppx:connection ppx:expression ppx:addData</p>												
<p>attributes</p>	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation								
globalId	xsd:ID	optional											
<p>source</p>	<pre><xsd:element name="connectionPointIn" type="ppx:connectionPointIn" minOccurs="0" maxOccurs="unbounded"/></pre>												

element **sfcObjects/simultaneousConvergence/connectionPointOut**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:connectionPointOut					
properties	isRef	0	minOcc	0	maxOcc	1
	content	complex				
children	ppx:relPosition ppx:expression ppx:addData					
attributes	Name	Type	Use	Default	Fixed	annotation
	globalId	xsd:ID	optional			
source	<code><xsd:element name="connectionPointOut" type="ppx:connectionPointOut" minOccurs="0"/></code>					

element **sfcObjects/simultaneousConvergence/addData**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:addData					
properties	isRef	0	minOcc	0	maxOcc	1
	content	complex				
children	ppx:data					
source	<code><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></code>					

element `sfcObjects/simultaneousConvergence/documentation`

diagram									
namespace	http://www.plcopen.org/xml/tc6_0201								
type	ppx:formattedText								
properties	<table> <tr><td>isRef</td><td>0</td></tr> <tr><td>minOcc</td><td>0</td></tr> <tr><td>maxOcc</td><td>1</td></tr> <tr><td>content</td><td>complex</td></tr> </table>	isRef	0	minOcc	0	maxOcc	1	content	complex
isRef	0								
minOcc	0								
maxOcc	1								
content	complex								
source	<code><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></code>								

complexType `addData`

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
children	ppx:data
used by	<p>elements</p> <ul style="list-style-type: none"> commonObjects/connector/addData commonObjects/continuation/addData commonObjects/actionBlock/action/addData commonObjects/actionBlock/addData commonObjects/vendorElement/addData fbdObjects/block/addData fbdObjects/inVariable/addData fbdObjects/outVariable/addData fbdObjects/inOutVariable/addData fbdObjects/label/addData fbdObjects/jump/addData fbdObjects/return/addData ldObjects/leftPowerRail/addData ldObjects/rightPowerRail/addData ldObjects/coil/addData ldObjects/contact/addData sfcObjects/step/addData sfcObjects/macroStep/addData sfcObjects/jumpStep/addData sfcObjects/transition/addData sfcObjects/selectionDivergence/addData sfcObjects/selectionConvergence/addData sfcObjects/simultaneousDivergence/addData sfcObjects/simultaneousConvergence/addData project/contentHeader/addData project/types/dataTypes/dataType/addData project/types/pous/pou/interface/addData project/types/pous/pou/actions/action/addData project/types/pous/pou/transitions/transition/addData project/types/pous/pou/addData project/instances/configurations/configuration/resource/task/addData project/instances/configurations/configuration/resource/addData project/instances/configurations/configuration/addData project/addData body/addData varListPlain/variable/addData varListPlain/addData varListAccess/accessVariable/addData varListAccess/addData varListConfig/configVariable/addData varListConfig/addData connection/addData connectionPointIn/addData connectionPointOut/addData pouInstance/addData derivedTypes/derived/addData commonObjects/comment/addData commonObjects/error/addData
annotation	<p>documentation</p> <p>Application specific data defined in external schemata</p>
source	<pre> <xsd:complexType name="addData"> <xsd:annotation> <xsd:documentation>Application specific data defined in external schemata </xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="data" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:sequence> <xsd:any namespace="##any" processContents="lax"/> </xsd:sequence> </xsd:complexType> </xsd:element> </xsd:sequence> <xsd:attribute name="name" type="xsd:anyURI" use="required"> </pre>

	<pre> <xsd:annotation> <xsd:documentation>Uniquely identifies the additional data element.</xsd:documentation> </xsd:annotation> </xsd:attribute> <xsd:attribute name="handleUnknown" use="required"> <xsd:annotation> <xsd:documentation>Recommended processor handling for unknown data elements. Specifies if the processor should try to preserve the additional data element, dismiss the element (e.g. because the data is invalid if not updated correctly) or use the processors default behaviour for unknown data.</xsd:documentation> </xsd:annotation> <xsd:simpleType> <xsd:restriction base="xsd:NMTOKEN"> <xsd:enumeration value="preserve"/> <xsd:enumeration value="discard"/> <xsd:enumeration value="implementation"/> </xsd:restriction> </xsd:simpleType> </xsd:attribute> </xsd:complexType> </xsd:element> </xsd:sequence> </xsd:complexType> </pre>
--	---

element **addData/data**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
properties	isRef	0				
	minOcc	0				
	maxOcc	unbounded				
	content	complex				
attributes	Name	Type	Use	Default	Fixed	annotation
	name	xsd:anyURI	required			documentation Uniquely identifies the additional data element.

	handleUnknown derived by: required xsd:NMTOKEN	documentation Recommended processor handling for unknown data elements. Specifies if the processor should try to preserve the additional data element, dismiss the element (e.g. because the data is invalid if not updated correctly) or use the processors default behaviour for unknown data.
source	<pre> <xsd:element name="data" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:sequence> <xsd:any namespace="##any" processContents="lax"/> </xsd:sequence> <xsd:attribute name="name" type="xsd:anyURI" use="required"> <xsd:annotation> <xsd:documentation>Uniquely identifies the additional data element.</xsd:documentation> </xsd:annotation> </xsd:attribute> <xsd:attribute name="handleUnknown" use="required"> <xsd:annotation> <xsd:documentation>Recommended processor handling for unknown data elements. Specifies if the processor should try to preserve the additional data element, dismiss the element (e.g. because the data is invalid if not updated correctly) or use the processors default behaviour for unknown data.</xsd:documentation> </xsd:annotation> </xsd:attribute> <xsd:simpleType> <xsd:restriction base="xsd:NMTOKEN"> <xsd:enumeration value="preserve"/> <xsd:enumeration value="discard"/> <xsd:enumeration value="implementation"/> </xsd:restriction> </xsd:simpleType> </xsd:complexType> </xsd:element> </pre>	

attribute **addData/data/@name**

type	xsd:anyURI
properties	isRef 0 use required
annotation	documentation Uniquely identifies the additional data element.
source	<pre><xsd:attribute name="name" type="xsd:anyURI" use="required"></pre>

	<pre> <xsd:annotation> <xsd:documentation>Uniquely identifies the additional data element.</xsd:documentation> </xsd:annotation> </xsd:attribute> </pre>
--	--

attribute **addData/data/@handleUnknown**

type	restriction of xsd:NMTOKEN
properties	isRef 0 use required
facets	enumeration preserve enumeration discard enumeration implementation
annotation	documentation Recommended processor handling for unknown data elements. Specifies if the processor should try to preserve the additional data element, dismiss the element (e.g. because the data is invalid if not updated correctly) or use the processors default behaviour for unknown data.
source	<pre> <xsd:attribute name="handleUnknown" use="required"> <xsd:annotation> <xsd:documentation>Recommended processor handling for unknown data elements. Specifies if the processor should try to preserve the additional data element, dismiss the element (e.g. because the data is invalid if not updated correctly) or use the processors default behaviour for unknown data.</xsd:documentation> </xsd:annotation> <xsd:simpleType> <xsd:restriction base="xsd:NMTOKEN"> <xsd:enumeration value="preserve"/> <xsd:enumeration value="discard"/> <xsd:enumeration value="implementation"/> </xsd:restriction> </xsd:simpleType> </xsd:attribute> </pre>

complexType **addDataInfo**

diagram	<p>List of additional data elements used in the document with description</p>
namespace	http://www.plcopen.org/xml/tc6_0201
children	ppx:info
used by	element project/contentHeader/addDataInfo
annotation	documentation List of additional data elements used in the document with description
source	<pre> <xsd:complexType name="addDataInfo"> <xsd:annotation> <xsd:documentation>List of additional data elements used in the document with description</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="info" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> </pre>

```

<xsd:sequence>
  <xsd:element name="description" type="ppx:formattedText" minOccurs="0"/>
</xsd:sequence>
<xsd:attribute name="name" type="xsd:anyURI" use="required">
  <xsd:annotation>
    <xsd:documentation>Unique name of the additional data element.</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="version" type="xsd:decimal">
  <xsd:annotation>
    <xsd:documentation>Version of additional data, eg. schema version.</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="vendor" type="xsd:anyURI" use="required">
  <xsd:annotation>
    <xsd:documentation>Vendor responsible for the definition of the additional data
element.</xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>

```

element **addDataInfo/info**

diagram								
namespace	http://www.plcopen.org/xml/tc6_0201							
properties	isRef	0	minOcc	0	maxOcc	unbounded	content	complex
children	ppx:description							
attributes	Name	Type	Use	Default	Fixed	annotation documentation Unique name of the additional data element.		
	name	xsd:anyURI	required					

	<p>version xsd:decimal</p> <p>vendor xsd:anyURI required</p>	<p>documentation Version of additional data, eg. schema version.</p> <p>documentation Vendor responsible for the definition of the additional data element.</p>
source	<pre><xsd:element name="info" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:sequence> <xsd:element name="description" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="name" type="xsd:anyURI" use="required"> <xsd:annotation> <xsd:documentation>Unique name of the additional data element.</xsd:documentation> </xsd:annotation> </xsd:attribute> <xsd:attribute name="version" type="xsd:decimal"> <xsd:annotation> <xsd:documentation>Version of additional data, eg. schema version.</xsd:documentation> </xsd:annotation> </xsd:attribute> <xsd:attribute name="vendor" type="xsd:anyURI" use="required"> <xsd:annotation> <xsd:documentation>Vendor responsible for the definition of the additional data element.</xsd:documentation> </xsd:annotation> </xsd:attribute> </xsd:complexType> </xsd:element></pre>	

attribute **addDataInfo/info/@name**

type	xsd:anyURI
properties	isRef 0 use required
annotation	documentation Unique name of the additional data element.
source	<pre><xsd:attribute name="name" type="xsd:anyURI" use="required"> <xsd:annotation> <xsd:documentation>Unique name of the additional data element.</xsd:documentation> </xsd:annotation> </xsd:attribute></pre>

attribute **addDataInfo/info/@version**

type	xsd:decimal
properties	isRef 0
annotation	documentation Version of additional data, eg. schema version.

source	<pre><xsd:attribute name="version" type="xsd:decimal"> <xsd:annotation> <xsd:documentation>Version of additional data, eg. schema version.</xsd:documentation> </xsd:annotation> </xsd:attribute></pre>
--------	---

attribute **addDataInfo/info/@vendor**

type	xsd:anyURI
properties	isRef 0 use required
annotation	documentation Vendor responsible for the definition of the additional data element.
source	<pre><xsd:attribute name="vendor" type="xsd:anyURI" use="required"> <xsd:annotation> <xsd:documentation>Vendor responsible for the definition of the additional data element.</xsd:documentation> </xsd:annotation> </xsd:attribute></pre>

element **addDataInfo/info/description**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
source	<pre><xsd:element name="description" type="ppx:formattedText" minOccurs="0"/></pre>

complexType body

diagram																			
namespace	http://www.plcopen.org/xml/tc6_0201																		
children	ppx:IL ppx:ST ppx:FBD ppx:LD ppx:SFC ppx:addData ppx:documentation																		
used by	elements project/types/pous/pou/actions/action/body project/types/pous/pou/transitions/transition/body project/types/pous/pou/body sfcObjects/macroStep/body commonObjects/actionBlock/action/inline sfcObjects/transition/condition/inline																		
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>WorksheetName</td> <td>xsd:string</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	WorksheetName	xsd:string	optional				globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation														
WorksheetName	xsd:string	optional																	
globalId	xsd:ID	optional																	
annotation	documentation Implementation part of a POU, action or transition																		
source	<pre> <xsd:complexType name="body"> <xsd:annotation> <xsd:documentation>Implementation part of a POU, action or transition</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:choice> <xsd:element name="IL" type="ppx:formattedText"/> <xsd:element name="ST" type="ppx:formattedText"/> <xsd:element name="FBD"> <xsd:complexType> <xsd:choice minOccurs="0" maxOccurs="unbounded"> <xsd:group ref="ppx:commonObjects"/> <xsd:group ref="ppx:fbdObjects"/> </xsd:choice> </xsd:complexType> </xsd:element> <xsd:element name="LD"> <xsd:complexType> <xsd:choice minOccurs="0" maxOccurs="unbounded"> <xsd:group ref="ppx:commonObjects"/> </xsd:choice> </xsd:complexType> </xsd:element> </xsd:choice> </xsd:sequence> <xsd:choice> <xsd:element name="ppx:addData"/> <xsd:element name="ppx:documentation"/> </xsd:choice> </xsd:complexType> </pre>																		

	<pre> <xsd:group ref="ppx:fbdObjects"/> <xsd:group ref="ppx:ldObjects"/> </xsd:choice> </xsd:complexType> </xsd:element> <xsd:element name="SFC"> <xsd:complexType> <xsd:choice minOccurs="0" maxOccurs="unbounded"> <xsd:group ref="ppx:commonObjects"/> <xsd:group ref="ppx:fbdObjects"/> <xsd:group ref="ppx:ldObjects"/> <xsd:group ref="ppx:sfcObjects"/> </xsd:choice> </xsd:complexType> </xsd:element> </xsd:choice> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"> <xsd:annotation> <xsd:documentation>Additional userspecific information to the element</xsd:documentation> </xsd:annotation> </xsd:element> </xsd:sequence> <xsd:attribute name="WorksheetName" type="xsd:string" use="optional"/> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </pre>
--	--

attribute body/@WorksheetName

type	xsd:string
properties	isRef 0 use optional
source	<xsd:attribute name="WorksheetName" type="xsd:string" use="optional"/>

attribute body/@globalId

type	xsd:ID
properties	isRef 0 use optional
source	<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>

element body/IL

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText

properties	isRef 0 content complex
source	<xsd:element name="IL" type="ppx:formattedText"/>

element body/ST

diagram	<p>The diagram illustrates the structure of the <code>ppx:formattedText</code> element. It consists of a sequence of three components: the <code>ppx:ST</code> element, a sequence marker (represented by a dashed line inside a circle), and an <code>any</code> element with the namespace <code>http://www.w3.org/1999/xhtml</code>. The entire sequence is contained within a dashed box labeled <code>ppx:formattedText</code>.</p>
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 content complex
source	<xsd:element name="ST" type="ppx:formattedText"/>

element **body/FBD**

<p>diagram</p>	<p>The diagram illustrates the structure of the <code>ppx:FBD</code> element. It is a choice between two groups: <code>ppx:commonObjects</code> and <code>ppx:fbObjects</code>. Both groups are optional and can occur 0 to infinity times. <code>ppx:commonObjects</code> contains <code>ppx:comment</code>, <code>ppx:error</code>, <code>ppx:connector</code>, <code>ppx:continuation</code>, and <code>ppx:actionBlock</code>. <code>ppx:fbObjects</code> contains <code>ppx:vendorElement</code>, <code>ppx:block</code>, <code>ppx:inVariable</code>, <code>ppx:outVariable</code>, <code>ppx:inOutVariable</code>, <code>ppx:label</code>, <code>ppx:jump</code>, and <code>ppx:return</code>. Descriptions for some elements are provided: <code>ppx:continuation</code> is the counterpart of the connector element, <code>ppx:inVariable</code> is used as a producer, <code>ppx:outVariable</code> is used as a consumer, and <code>ppx:inOutVariable</code> is used as both producer and consumer.</p>
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>
<p>properties</p>	<p>isRef 0 content complex</p>
<p>children</p>	<p>ppx:comment ppx:error ppx:connector ppx:continuation ppx:actionBlock ppx:vendorElement ppx:block ppx:inVariable ppx:outVariable ppx:inOutVariable ppx:label ppx:jump ppx:return</p>
<p>source</p>	<pre><xsd:element name="FBD"> <xsd:complexType> <xsd:choice minOccurs="0" maxOccurs="unbounded"> <xsd:group ref="ppx:commonObjects"/> <xsd:group ref="ppx:fbObjects"/> </xsd:choice> </xsd:complexType> </xsd:element></pre>

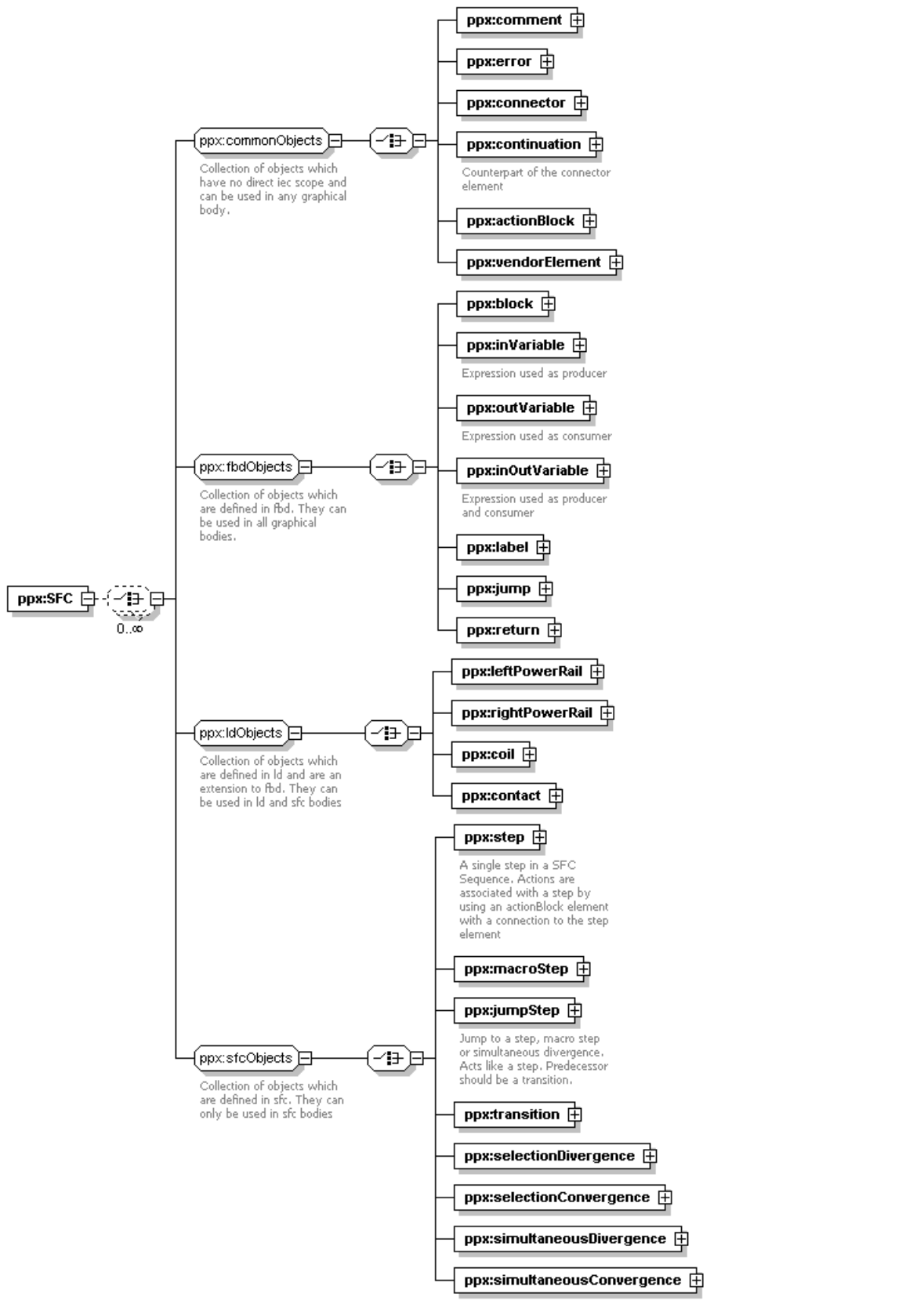
element **body/LD**

<p>diagram</p>	<p>The diagram illustrates the structure of the ppx:LD element. It is a choice element (indicated by a dashed circle and the cardinality $0..∞$) containing three groups:</p> <ul style="list-style-type: none"> ppx:commonObjects: Collection of objects which have no direct iec scope and can be used in any graphical body. <ul style="list-style-type: none"> ppx:comment ppx:error ppx:connector ppx:continuation: Counterpart of the connector element ppx:actionBlock ppx:vendorElement ppx:fbdObjects: Collection of objects which are defined in fbd. They can be used in all graphical bodies. <ul style="list-style-type: none"> ppx:block ppx:inVariable: Expression used as producer ppx:outVariable: Expression used as consumer ppx:inOutVariable: Expression used as producer and consumer ppx:label ppx:jump ppx:return ppx:ldObjects: Collection of objects which are defined in ld and are an extension to fbd. They can be used in ld and sfc bodies. <ul style="list-style-type: none"> ppx:leftPowerRail ppx:rightPowerRail ppx:coil ppx:contact
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>
<p>properties</p>	<p>isRef 0 content complex</p>
<p>children</p>	<p>ppx:comment ppx:error ppx:connector ppx:continuation ppx:actionBlock ppx:vendorElement ppx:block ppx:inVariable ppx:outVariable ppx:inOutVariable ppx:label ppx:jump ppx:return ppx:leftPowerRail ppx:rightPowerRail ppx:coil ppx:contact</p>
<p>source</p>	<pre><xsd:element name="LD"> <xsd:complexType> <xsd:choice minOccurs="0" maxOccurs="unbounded"> <xsd:group ref="ppx:commonObjects"/> <xsd:group ref="ppx:fbdObjects"/> </xsd:choice> </xsd:complexType> </xsd:element></pre>

	<pre><xsd:group ref="ppx:IdObjects"/> </xsd:choice> </xsd:complexType> </xsd:element></pre>
--	---

element body/SFC

diagram



namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0 content complex
children	ppx:comment ppx:error ppx:connector ppx:continuation ppx:actionBlock ppx:vendorElement ppx:block ppx:inVariable ppx:outVariable ppx:inOutVariable ppx:label ppx:jump ppx:return ppx:leftPowerRail ppx:rightPowerRail ppx:coil ppx:contact ppx:step ppx:macroStep ppx:jumpStep ppx:transition ppx:selectionDivergence ppx:selectionConvergence ppx:simultaneousDivergence ppx:simultaneousConvergence
source	<pre><xsd:element name="SFC"> <xsd:complexType> <xsd:choice minOccurs="0" maxOccurs="unbounded"> <xsd:group ref="ppx:commonObjects"/> <xsd:group ref="ppx:fbObjects"/> <xsd:group ref="ppx:ldObjects"/> <xsd:group ref="ppx:sfcObjects"/> </xsd:choice> </xsd:complexType> </xsd:element></pre>

element body/addData

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<pre><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></pre>

element body/documentation

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
annotation	documentation Additional userspecific information to the element

source	<pre><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"> <xsd:annotation> <xsd:documentation>Additional userspecific information to the element</xsd:documentation> </xsd:annotation> </xsd:element></pre>
--------	--

complexType connection

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
children	ppx:position ppx:addData					
used by	element connectionPointIn/connection					
attributes	Name	Type	Use	Default	Fixed	annotation
	globalId	xsd:ID	optional			
	refLocalId	xsd:unsignedLong	required			documentation Identifies the element the connection starts from.

	<p>formalParameter xsd:string optional</p>	<p>documentation If present: This attribute denotes the name of the VAR_OUTPUT / VAR_IN_OUTparameter of the pou block that is the start of the connection. If not present: If the refLocalId attribute refers to a pou block, the start of the connection is the first output of this block, which is not ENO. If the refLocalId attribute refers to any other element type, the start of the connection is the elements single native output.</p>
<p>annotation</p>	<p>documentation Describes a connection between the consumer element (eg. input variable of a function block) and the producer element (eg. output variable of a function block). It may contain a list of positions that describes the path of the connection.</p>	
<p>source</p>	<pre> <xsd:complexType name="connection"> <xsd:annotation> <xsd:documentation>Describes a connection between the consumer element (eg. input variable of a function block) and the producer element (eg. output variable of a function block). It may contain a list of positions that describes the path of the connection.</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="position" type="ppx:position" minOccurs="0" maxOccurs="unbounded"> <xsd:annotation> <xsd:documentation>All positions of the directed connection path. If any positions are given, the list has to contain the first (input pin of the consumer element) as well as the last (output pin of the producer element).</xsd:documentation> </xsd:annotation> </xsd:element> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> <xsd:attribute name="refLocalId" type="xsd:unsignedLong" use="required"> <xsd:annotation> <xsd:documentation>Identifies the element the connection starts from.</xsd:documentation> </xsd:annotation> </xsd:attribute> <xsd:attribute name="formalParameter" type="xsd:string" use="optional"> <xsd:annotation> <xsd:documentation>If present: This attribute denotes the name of the VAR_OUTPUT / VAR_IN_OUTparameter of the pou block that is the start of the connection. If not present: If the refLocalId attribute refers to a pou block, the start of the connection is the first output of this block, which is not ENO. If the refLocalId attribute refers to any other element type, the start of the connection is the elements single native output. </xsd:documentation> </xsd:annotation> </xsd:attribute> </pre>	

	<pre></xsd:attribute> </xsd:complexType></pre>
--	--

attribute connection/@globalId

type	xsd:ID
properties	isRef 0 use optional
source	<pre><xsd:attribute name="globalId" type="xsd:ID" use="optional"/></pre>

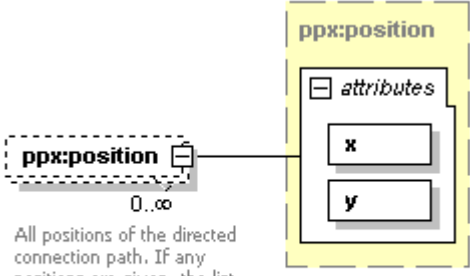
attribute connection/@refLocalId

type	xsd:unsignedLong
properties	isRef 0 use required
annotation	documentation Identifies the element the connection starts from.
source	<pre><xsd:attribute name="refLocalId" type="xsd:unsignedLong" use="required"> <xsd:annotation> <xsd:documentation>Identifies the element the connection starts from.</xsd:documentation> </xsd:annotation> </xsd:attribute></pre>

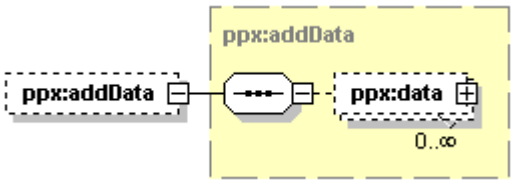
attribute connection/@formalParameter

type	xsd:string
properties	isRef 0 use optional
annotation	documentation If present: This attribute denotes the name of the VAR_OUTPUT / VAR_IN_OUTparameter of the pou block that is the start of the connection. If not present: If the refLocalId attribute refers to a pou block, the start of the connection is the first output of this block, which is not ENO. If the refLocalId attribute refers to any other element type, the start of the connection is the elements single native output.
source	<pre><xsd:attribute name="formalParameter" type="xsd:string" use="optional"> <xsd:annotation> <xsd:documentation>If present: This attribute denotes the name of the VAR_OUTPUT / VAR_IN_OUTparameter of the pou block that is the start of the connection. If not present: If the refLocalId attribute refers to a pou block, the start of the connection is the first output of this block, which is not ENO. If the refLocalId attribute refers to any other element type, the start of the connection is the elements single native output. </xsd:documentation> </xsd:annotation> </xsd:attribute></pre>

element connection/position

diagram	 <p>All positions of the directed connection path. If any positions are given, the list has to contain the first (input pin of the consumer element) as well as the last (output pin of the producer element).</p>					
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:position					
properties	isRef	0				
	minOcc	0				
	maxOcc	unbounded				
	content	complex				
attributes	Name	Type	Use	Default	Fixed	annotation
	<u>x</u>	xsd:decimal	required			
	<u>y</u>	xsd:decimal	required			
annotation	documentation All positions of the directed connection path. If any positions are given, the list has to contain the first (input pin of the consumer element) as well as the last (output pin of the producer element).					
source	<pre><xsd:element name="position" type="ppx:position" minOccurs="0" maxOccurs="unbounded"> <xsd:annotation> <xsd:documentation>All positions of the directed connection path. If any positions are given, the list has to contain the first (input pin of the consumer element) as well as the last (output pin of the producer element).</xsd:documentation> </xsd:annotation> </xsd:element></pre>					

element connection/addData

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:addData					
properties	isRef	0				
	minOcc	0				
	maxOcc	1				
	content	complex				
children	ppx:data					
source	<pre><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></pre>					

complexType connectionPointIn

<p>diagram</p>													
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>												
<p>children</p>	<p>ppx:relPosition ppx:connection ppx:expression ppx:addData</p>												
<p>used by</p>	<p>elements</p> <ul style="list-style-type: none"> sfcObjects/simultaneousConvergence/connectionPointIn sfcObjects/simultaneousDivergence/connectionPointIn sfcObjects/selectionConvergence/connectionPointIn sfcObjects/selectionDivergence/connectionPointIn sfcObjects/transition/condition/connectionPointIn sfcObjects/transition/connectionPointIn sfcObjects/jumpStep/connectionPointIn sfcObjects/macroStep/connectionPointIn sfcObjects/step/connectionPointIn ldObjects/contact/connectionPointIn ldObjects/coil/connectionPointIn ldObjects/rightPowerRail/connectionPointIn fbdObjects/return/connectionPointIn fbdObjects/jump/connectionPointIn fbdObjects/inOutVariable/connectionPointIn fbdObjects/outVariable/connectionPointIn fbdObjects/block/inOutVariables/variable/connectionPointIn fbdObjects/block/inputVariables/variable/connectionPointIn commonObjects/vendorElement/inOutVariables/variable/connectionPointIn commonObjects/vendorElement/inputVariables/variable/connectionPointIn commonObjects/actionBlock/connectionPointIn commonObjects/connector/connectionPointIn 												
<p>attributes</p>	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation								
globalId	xsd:ID	optional											
<p>annotation</p>	<p>documentation Defines a connection point on the consumer side</p>												
<p>source</p>	<pre><xsd:complexType name="connectionPointIn"> <xsd:annotation> <xsd:documentation>Defines a connection point on the consumer side</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="relPosition" type="ppx:position" minOccurs="0"> <xsd:annotation> <xsd:documentation>Relative position of the connection pin. Origin is the anchor position of the block.</xsd:documentation> </xsd:annotation> </xsd:element></pre>												

```

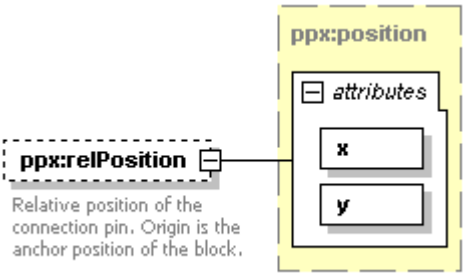
<xsd:choice minOccurs="0">
  <xsd:element name="connection" type="ppx:connection" maxOccurs="unbounded"/>
  <xsd:element name="expression" type="xsd:string">
    <xsd:annotation>
      <xsd:documentation>The operand is a valid iec variable e.g. avar[0] or an iec expression or
multiple token text e.g. a + b (*sum*). An iec 61131-3 parser has to be used to extract variable
information.</xsd:documentation>
    </xsd:annotation>
  </xsd:element>
</xsd:choice>
<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
</xsd:sequence>
<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>
</xsd:complexType>

```

attribute connectionPointIn/@globalId

type	xsd:ID
properties	isRef 0 use optional
source	<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>

element connectionPointIn/relPosition


diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	ppx:position					
properties	isRef	0	minOcc	0	maxOcc	1
	content	complex				
attributes	Name	Type	Use	Default	Fixed	annotation
	x	xsd:decimal	required			
	y	xsd:decimal	required			
annotation	documentation Relative position of the connection pin. Origin is the anchor position of the block.					
source	<xsd:element name="relPosition" type="ppx:position" minOccurs="0"> <xsd:annotation> <xsd:documentation>Relative position of the connection pin. Origin is the anchor position of the block.</xsd:documentation> </xsd:annotation> </xsd:element>					

element **connectionPointIn/connection**

<p>diagram</p>	<p>The diagram illustrates the structure of the ppx:connection element. The root element is ppx:connection with a cardinality of 1..∞. It contains an attributes block with the following attributes: globalId (required), refLocalId (required), and formalParameter (optional). The refLocalId attribute identifies the element the connection starts from. The formalParameter attribute, if present, denotes the name of the VAR_OUTPUT / VAR_IN_OUT parameter of the pou block that is the start of the connection. If not present, the refLocalId attribute refers to a pou block, the start of the connection is the first output of this block, which is not ENO. If the refLocalId attribute refers to any other element type, the start of the connection is the elements single native output. The ppx:connection element also contains a ppx:position block (0..∞) and a ppx:addData block (0..∞). The ppx:position block contains all positions of the directed connection path. If any positions are given, the list has to contain the first (input pin of the consumer element) as well as the last (output pin of the producer element).</p>																								
<p>namespace</p>	<p>http://www.plcopen.org/xml/tc6_0201</p>																								
<p>type</p>	<p>ppx:connection</p>																								
<p>properties</p>	<p>isRef 0 minOcc 1 maxOcc unbounded content complex</p>																								
<p>children</p>	<p>ppx:position ppx:addData</p>																								
<p>attributes</p>	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td>refLocalId</td> <td>xsd:unsignedLong</td> <td>required</td> <td></td> <td></td> <td>documentation Identifies the element the connection starts from.</td> </tr> <tr> <td>formalParameter</td> <td>xsd:string</td> <td>optional</td> <td></td> <td></td> <td>documentation If present:</td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	globalId	xsd:ID	optional				refLocalId	xsd:unsignedLong	required			documentation Identifies the element the connection starts from.	formalParameter	xsd:string	optional			documentation If present:
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globalId	xsd:ID	optional																							
refLocalId	xsd:unsignedLong	required			documentation Identifies the element the connection starts from.																				
formalParameter	xsd:string	optional			documentation If present:																				

	<p>This attribute denotes the name of the VAR_OUTPUT / VAR_IN_OUT parameter of the pou block that is the start of the connection.</p> <p>If not present:</p> <p>If the refLocalId attribute refers to a pou block, the start of the connection is the first output of this block, which is not ENO.</p> <p>If the refLocalId attribute refers to any other element type, the start of the connection is the elements single native output.</p>
source	<code><xsd:element name="connection" type="ppx:connection" maxOccurs="unbounded"/></code>

element connectionPointIn/expression

diagram	 <p>The operand is a valid iec variable e.g. avar[0] or an iec expression or multiple token text e.g. a + b (*sum*). An iec 61131-3 parser has to be used to extract variable information.</p>
namespace	<code>http://www.plcopen.org/xml/tc6_0201</code>
type	xsd:string
properties	isRef 0 content simple
annotation	documentation The operand is a valid iec variable e.g. avar[0] or an iec expression or multiple token text e.g. a + b (*sum*). An iec 61131-3 parser has to be used to extract variable information.
source	<pre><xsd:element name="expression" type="xsd:string"> <xsd:annotation> <xsd:documentation>The operand is a valid iec variable e.g. avar[0] or an iec expression or multiple token text e.g. a + b (*sum*). An iec 61131-3 parser has to be used to extract variable information.</xsd:documentation> </xsd:annotation> </xsd:element></pre>

element **connectionPointIn/addData**

diagram									
namespace	http://www.plcopen.org/xml/tc6_0201								
type	ppx:addData								
properties	<table> <tr><td>isRef</td><td>0</td></tr> <tr><td>minOcc</td><td>0</td></tr> <tr><td>maxOcc</td><td>1</td></tr> <tr><td>content</td><td>complex</td></tr> </table>	isRef	0	minOcc	0	maxOcc	1	content	complex
isRef	0								
minOcc	0								
maxOcc	1								
content	complex								
children	ppx:data								
source	<code><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></code>								

complexType **connectionPointOut**

diagram	<p>Defines a connection point on the producer side</p> <p>Relative position of the connection pin. Origin is the anchor position of the block.</p> <p>The operand is a valid IEC variable e.g. avar[0].</p>												
namespace	http://www.plcopen.org/xml/tc6_0201												
children	ppx:relPosition ppx:expression ppx:addData												
used by	<p>elements</p> <ul style="list-style-type: none"> sfcObjects/simultaneousConvergence/connectionPointOut sfcObjects/simultaneousDivergence/connectionPointOut sfcObjects/selectionConvergence/connectionPointOut sfcObjects/selectionDivergence/connectionPointOut sfcObjects/transition/connectionPointOut sfcObjects/macroStep/connectionPointOut sfcObjects/step/connectionPointOut ldObjects/contact/connectionPointOut ldObjects/coil/connectionPointOut ldObjects/leftPowerRail/connectionPointOut fbdObjects/inOutVariable/connectionPointOut fbdObjects/inVariable/connectionPointOut fbdObjects/block/outputVariables/variable/connectionPointOut fbdObjects/block/inOutVariables/variable/connectionPointOut commonObjects/vendorElement/outputVariables/variable/connectionPointOut commonObjects/vendorElement/inOutVariables/variable/connectionPointOut commonObjects/actionBlock/action/connectionPointOut commonObjects/continuation/connectionPointOut sfcObjects/step/connectionPointOutAction 												
attributes	<table> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation								
globalId	xsd:ID	optional											
annotation	<p>documentation</p> <p>Defines a connection point on the producer side</p>												

source	<pre> <xsd:complexType name="connectionPointOut"> <xsd:annotation> <xsd:documentation>Defines a connection point on the producer side</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="relPosition" type="ppx:position" minOccurs="0"> <xsd:annotation> <xsd:documentation>Relative position of the connection pin. Origin is the anchor position of the block.</xsd:documentation> </xsd:annotation> </xsd:element> <xsd:element name="expression" type="xsd:string" minOccurs="0"> <xsd:annotation> <xsd:documentation>The operand is a valid iec variable e.g. avar[0].</xsd:documentation> </xsd:annotation> </xsd:element> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </pre>
--------	---

attribute connectionPointOut/@globalId

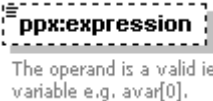
type	xsd:ID
properties	isRef 0 use optional
source	<xsd:attribute name="globalId" type="xsd:ID" use="optional"/>

element connectionPointOut/relPosition

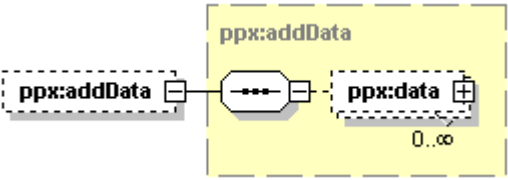
diagram																			
namespace	http://www.plcopen.org/xml/tc6_0201																		
type	ppx:position																		
properties	isRef 0 minOcc 0 maxOcc 1 content complex																		
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>x</td> <td>xsd:decimal</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>y</td> <td>xsd:decimal</td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	x	xsd:decimal	required				y	xsd:decimal	required			
Name	Type	Use	Default	Fixed	annotation														
x	xsd:decimal	required																	
y	xsd:decimal	required																	
annotation	documentation Relative position of the connection pin. Origin is the anchor position of the block.																		
source	<xsd:element name="relPosition" type="ppx:position" minOccurs="0">																		

	<pre> <xsd:annotation> <xsd:documentation>Relative position of the connection pin. Origin is the anchor position of the block.</xsd:documentation> </xsd:annotation> </xsd:element> </pre>
--	--

element connectionPointOut/expression

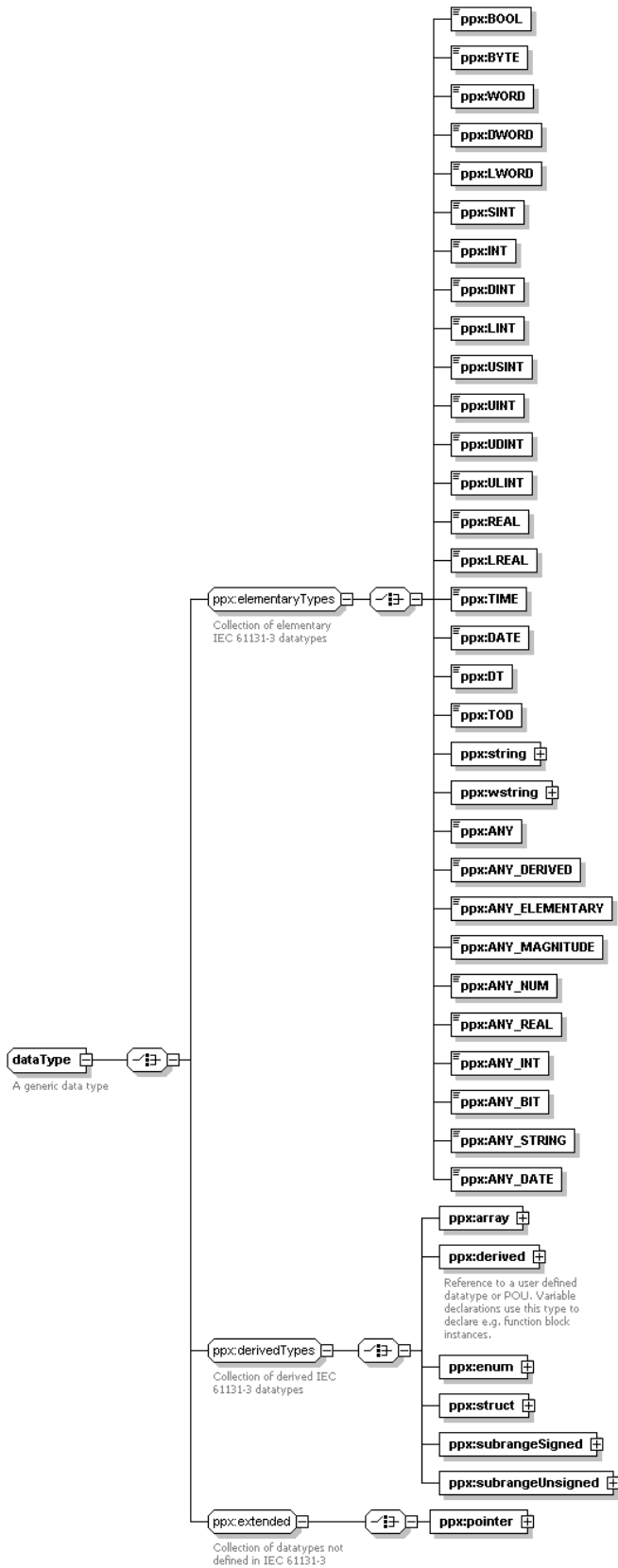
diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	xsd:string
properties	<pre> isRef 0 minOcc 0 maxOcc 1 content simple </pre>
annotation	<pre> documentation The operand is a valid iec variable e.g. avar[0]. </pre>
source	<pre> <xsd:element name="expression" type="xsd:string" minOccurs="0"> <xsd:annotation> <xsd:documentation>The operand is a valid iec variable e.g. avar[0].</xsd:documentation> </xsd:annotation> </xsd:element> </pre>

element connectionPointOut/addData

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	<pre> isRef 0 minOcc 0 maxOcc 1 content complex </pre>
children	ppx:data
source	<pre> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> </pre>

complexType dataType

diagram



namespace	http://www.plcopen.org/xml/tc6_0201
children	ppx:BOOL ppx:BYTE ppx:WORD ppx:DWORD ppx:LWORD ppx:SINT ppx:INT ppx:DINT ppx:LINT ppx:USINT ppx:UINT ppx:UDINT ppx:ULINT ppx:REAL ppx:LREAL ppx:TIME ppx:DATE ppx:DT ppx:TOD ppx:string ppx:wstring ppx:ANY ppx:ANY_DERIVED ppx:ANY_ELEMENTARY ppx:ANY_MAGNITUDE ppx:ANY_NUM ppx:ANY_REAL ppx:ANY_INT ppx:ANY_BIT ppx:ANY_STRING ppx:ANY_DATE ppx:array ppx:derived ppx:enum ppx:struct ppx:subrangeSigned ppx:subrangeUnsigned ppx:pointer
used by	elements project/types/dataTypes/dataType/baseType derivedTypes/array/baseType derivedTypes/enum/baseType derivedTypes/subrangeSigned/baseType derivedTypes/subrangeUnsigned/baseType extended/pointer/baseType project/types/pous/pou/interface/returnType varListPlain/variable/type varListAccess/accessVariable/type varListConfig/configVariable/type
annotation	documentation A generic data type
source	<pre><xsd:complexType name="dataType"> <xsd:annotation> <xsd:documentation>A generic data type</xsd:documentation> </xsd:annotation> <xsd:choice> <xsd:group ref="ppx:elementaryTypes"/> <xsd:group ref="ppx:derivedTypes"/> <xsd:group ref="ppx:extended"/> </xsd:choice> </xsd:complexType></pre>

complexType formattedText

diagram	<p>Formatted text according to parts of XHTML 1.1</p>
namespace	http://www.plcopen.org/xml/tc6_0201
used by	elements commonObjects/vendorElement/alternativeText commonObjects/error/content commonObjects/comment/content addDataInfo/info/description commonObjects/vendorElement/inputVariables/variable/documentation commonObjects/vendorElement/inOutVariables/variable/documentation commonObjects/vendorElement/outputVariables/variable/documentation fbdObjects/block/inputVariables/variable/documentation fbdObjects/block/inOutVariables/variable/documentation fbdObjects/block/outputVariables/variable/documentation fbdObjects/block/documentation fbdObjects/inVariable/documentation fbdObjects/outVariable/documentation fbdObjects/inOutVariable/documentation fbdObjects/label/documentation fbdObjects/jump/documentation fbdObjects/return/documentation ldObjects/leftPowerRail/documentation ldObjects/rightPowerRail/documentation ldObjects/coil/documentation ldObjects/contact/documentation sfcObjects/step/documentation sfcObjects/macroStep/documentation sfcObjects/jumpStep/documentation sfcObjects/transition/documentation sfcObjects/selectionDivergence/documentation sfcObjects/selectionConvergence/documentation sfcObjects/simultaneousDivergence/documentation sfcObjects/simultaneousConvergence/documentation project/types/dataTypes/dataType/documentation project/types/pous/pou/interface/documentation project/types/pous/pou/actions/action/documentation project/types/pous/pou/transitions/transition/documentation project/types/pous/pou/documentation project/instances/configurations/configuration/resource/task/documentation project/instances/configurations/configuration/resource/documentation project/instances/configurations/configuration/documentation project/documentation body/documentation varListPlain/variable/documentation varListPlain/documentation varListAccess/accessVariable/documentation varListAccess/documentation varListConfig/configVariable/documentation varListConfig/documentation pouInstance/documentation commonObjects/comment/documentation commonObjects/error/documentation commonObjects/connector/documentation commonObjects/continuation/documentation commonObjects/actionBlock/action/documentation

	commonObjects/actionBlock/documentation body/IL body/ST
annotation	documentation Formatted text according to parts of XHTML 1.1
source	<pre><xsd:complexType name="formattedText"> <xsd:annotation> <xsd:documentation>Formatted text according to parts of XHTML 1.1</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:any namespace="http://www.w3.org/1999/xhtml" processContents="lax"/> </xsd:sequence> </xsd:complexType></pre>

complexType position

diagram																			
namespace	http://www.plcopen.org/xml/tc6_0201																		
used by	<p>elements</p> <p>sfcObjects/simultaneousConvergence/position sfcObjects/simultaneousDivergence/position sfcObjects/selectionConvergence/position sfcObjects/selectionDivergence/position sfcObjects/transition/position sfcObjects/jumpStep/position sfcObjects/macroStep/position sfcObjects/step/position ldObjects/contact/position ldObjects/coil/position ldObjects/rightPowerRail/position ldObjects/leftPowerRail/position fbdObjects/return/position fbdObjects/jump/position fbdObjects/label/position fbdObjects/inOutVariable/position fbdObjects/outVariable/position fbdObjects/inVariable/position fbdObjects/block/position commonObjects/vendorElement/position commonObjects/actionBlock/position commonObjects/continuation/position commonObjects/connector/position commonObjects/error/position commonObjects/comment/position connection/position commonObjects/actionBlock/action/relPosition connectionPointOut/relPosition connectionPointIn/relPosition</p>																		
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td><u>x</u></td> <td>xsd:decimal</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>y</u></td> <td>xsd:decimal</td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	<u>x</u>	xsd:decimal	required				<u>y</u>	xsd:decimal	required			
Name	Type	Use	Default	Fixed	annotation														
<u>x</u>	xsd:decimal	required																	
<u>y</u>	xsd:decimal	required																	
annotation	documentation Defines a graphical position in X, Y coordinates																		
source	<pre><xsd:complexType name="position"> <xsd:annotation> <xsd:documentation>Defines a graphical position in X, Y coordinates</xsd:documentation> </xsd:annotation> <xsd:attribute name="x" type="xsd:decimal" use="required"/> <xsd:attribute name="y" type="xsd:decimal" use="required"/> </xsd:complexType></pre>																		

attribute position/@x

type	xsd:decimal
properties	isRef 0 use required
source	<pre><xsd:attribute name="x" type="xsd:decimal" use="required"/></pre>

attribute **position/@y**

type	xsd:decimal
properties	isRef 0 use required
source	<code><xsd:attribute name="y" type="xsd:decimal" use="required"/></code>

complexType **pouInstance**

diagram																									
namespace	http://www.plcopen.org/xml/tc6_0201																								
children	ppx:addData ppx:documentation																								
used by	elements project/instances/configurations/configuration/resource/task/pouInstance project/instances/configurations/configuration/resource/pouInstance																								
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>name</td> <td>xsd:string</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>typeName</td> <td>xsd:string</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>globalId</td> <td>xsd:ID</td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	name	xsd:string	required				typeName	xsd:string	required				globalId	xsd:ID	optional			
Name	Type	Use	Default	Fixed	annotation																				
name	xsd:string	required																							
typeName	xsd:string	required																							
globalId	xsd:ID	optional																							
annotation	documentation Represents a program or function block instance either running with or without a task																								
source	<pre> <xsd:complexType name="pouInstance"> <xsd:annotation> <xsd:documentation>Represents a program or function block instance either running with or without a task</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="name" type="xsd:string" use="required"/> <xsd:attribute name="typeName" type="xsd:string" use="required"/> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </pre>																								

attribute **pouInstance/@name**

type	xsd:string
properties	isRef 0 use required
source	<code><xsd:attribute name="name" type="xsd:string" use="required"/></code>

attribute poulInstance/@typeName

type	xsd:string
properties	isRef 0 use required
source	<code><xsd:attribute name="typeName" type="xsd:string" use="required"/></code>

attribute poulInstance/@globalId

type	xsd:ID
properties	isRef 0 use optional
source	<code><xsd:attribute name="globalId" type="xsd:ID" use="optional"/></code>

element poulInstance/addData

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<code><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></code>

element poulInstance/documentation

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
source	<code><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></code>

complexType rangeSigned

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
used by	elements derivedTypes/array/dimension derivedTypes/subrangeSigned/range					
attributes	Name	Type	Use	Default	Fixed	annotation
	lower	xsd:string	required			
	upper	xsd:string	required			
annotation	documentation Defines a range with signed bounds					
source	<pre><xsd:complexType name="rangeSigned"> <xsd:annotation> <xsd:documentation>Defines a range with signed bounds</xsd:documentation> </xsd:annotation> <xsd:attribute name="lower" type="xsd:string" use="required"/> <xsd:attribute name="upper" type="xsd:string" use="required"/> </xsd:complexType></pre>					

attribute rangeSigned/@lower

type	xsd:string
properties	isRef 0 use required
source	<pre><xsd:attribute name="lower" type="xsd:string" use="required"/></pre>

attribute rangeSigned/@upper

type	xsd:string
properties	isRef 0 use required
source	<pre><xsd:attribute name="upper" type="xsd:string" use="required"/></pre>

complexType rangeUnsigned

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
used by	element derivedTypes/subrangeUnsigned/range					
attributes	Name	Type	Use	Default	Fixed	annotation
	lower	xsd:string	required			

	upper xsd:string required
annotation	documentation Defines a range with unsigned bounds
source	<pre><xsd:complexType name="rangeUnsigned"> <xsd:annotation> <xsd:documentation>Defines a range with unsigned bounds</xsd:documentation> </xsd:annotation> <xsd:attribute name="lower" type="xsd:string" use="required"/> <xsd:attribute name="upper" type="xsd:string" use="required"/> </xsd:complexType></pre>

attribute **rangeUnsigned/@lower**

type	xsd:string
properties	isRef 0 use required
source	<pre><xsd:attribute name="lower" type="xsd:string" use="required"/></pre>

attribute **rangeUnsigned/@upper**

type	xsd:string
properties	isRef 0 use required
source	<pre><xsd:attribute name="upper" type="xsd:string" use="required"/></pre>

complexType **value**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
children	ppx:simpleValue ppx:arrayValue ppx:structValue
used by	elements project/types/dataTypes/dataType/initialValue varListPlain/variable/initialValue varListConfig/configVariable/initialValue value/arrayValue/value value/structValue/value
annotation	documentation A generic value
source	<pre><xsd:complexType name="value"> <xsd:annotation> <xsd:documentation>A generic value</xsd:documentation> </xsd:annotation> <xsd:choice> <xsd:element name="simpleValue"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Value that can be represented as a single token string </xsd:documentation> </xsd:complexType> </xsd:element> </xsd:choice> </xsd:complexType></pre>

```

<xsd:attribute name="value" type="xsd:string" use="optional"/>
</xsd:complexType>
</xsd:element>
<xsd:element name="arrayValue">
<xsd:complexType>
<xsd:annotation>
<xsd:documentation>Array value consisting of a list of occurrences - value
pairs</xsd:documentation>
</xsd:annotation>
<xsd:sequence minOccurs="0" maxOccurs="unbounded">
<xsd:element name="value">
<xsd:complexType>
<xsd:complexContent>
<xsd:extension base="ppx:value">
<xsd:attribute name="repetitionValue" type="xsd:string" use="optional" default="1"/>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
<xsd:element name="structValue">
<xsd:complexType>
<xsd:annotation>
<xsd:documentation>Struct value consisting of a list of member - value
pairs</xsd:documentation>
</xsd:annotation>
<xsd:sequence minOccurs="0" maxOccurs="unbounded">
<xsd:element name="value">
<xsd:complexType>
<xsd:complexContent>
<xsd:extension base="ppx:value">
<xsd:attribute name="member" type="xsd:string" use="required"/>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:element>
</xsd:choice>
</xsd:complexType>

```

element **value/simpleValue**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0 content complex

attributes	Name value	Type xsd:string	Use optional	Default	Fixed	annotation
source	<pre> <xsd:element name="simpleValue"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Value that can be represented as a single token string </xsd:documentation> </xsd:annotation> <xsd:attribute name="value" type="xsd:string" use="optional"/> </xsd:complexType> </xsd:element> </pre>					

attribute **value/simpleValue/@value**

type	xsd:string
properties	isRef 0 use optional
source	<pre><xsd:attribute name="value" type="xsd:string" use="optional"/></pre>

element **value/arrayValue**

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
properties	isRef 0 content complex
children	ppx:value
source	<pre> <xsd:element name="arrayValue"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Array value consisting of a list of occurrences - value pairs</xsd:documentation> </xsd:annotation> <xsd:sequence minOccurs="0" maxOccurs="unbounded"> <xsd:element name="value"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:value"> <xsd:attribute name="repetitionValue" type="xsd:string" use="optional" default="1"/> </xsd:extension> </xsd:complexContent> </xsd:complexType> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element> </pre>

element `value/arrayValue/value`

diagram							
namespace	http://www.plcopen.org/xml/tc6_0201						
type	extension of ppx:value						
properties	isRef	0					
	content	complex					
children	ppx:simpleValue ppx:arrayValue ppx:structValue						
attributes	Name	Type	Use	Default	Fixed	annotation	
	repetitionValue	xsd:string	optional	1			
source	<pre> <xsd:element name="value"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:value"> <xsd:attribute name="repetitionValue" type="xsd:string" use="optional" default="1"/> </xsd:extension> </xsd:complexContent> </xsd:complexType> </xsd:element> </pre>						

attribute `value/arrayValue/value/@repetitionValue`

type	xsd:string
properties	isRef 0 default 1 use optional
source	<code><xsd:attribute name="repetitionValue" type="xsd:string" use="optional" default="1"/></code>

element `value/structValue`

diagram							
namespace	http://www.plcopen.org/xml/tc6_0201						
properties	isRef	0					
	content	complex					
children	ppx:value						

source	<pre> <xsd:element name="structValue"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Struct value consisting of a list of member - value pairs</xsd:documentation> </xsd:annotation> <xsd:sequence minOccurs="0" maxOccurs="unbounded"> <xsd:element name="value"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:value"> <xsd:attribute name="member" type="xsd:string" use="required"/> </xsd:extension> </xsd:complexContent> </xsd:complexType> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element> </pre>
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element **value/structValue/value**

diagram													
namespace	http://www.plcopen.org/xml/tc6_0201												
type	extension of ppx:value												
properties	isRef 0 content complex												
children	ppx:simpleValue ppx:arrayValue ppx:structValue												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>annotation</th> </tr> </thead> <tbody> <tr> <td>member</td> <td>xsd:string</td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	annotation	member	xsd:string	required			
Name	Type	Use	Default	Fixed	annotation								
member	xsd:string	required											
source	<pre> <xsd:element name="value"> <xsd:complexType> <xsd:complexContent> <xsd:extension base="ppx:value"> <xsd:attribute name="member" type="xsd:string" use="required"/> </xsd:extension> </xsd:complexContent> </xsd:complexType> </xsd:element> </pre>												

```
</xsd:element>
```

attribute **value/structValue/value/@member**

type	xsd:string
properties	isRef 0 use required
source	<xsd:attribute name="member" type="xsd:string" use="required"/>

complexType **varList**

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
type	extension of ppx:varListPlain					
properties	base ppx:varListPlain					
children	ppx:variable ppx:addData ppx:documentation					
used by	elements project/types/pous/pou/interface/accessVars project/types/pous/pou/interface/externalVars project/types/pous/pou/interface/globalVars project/instances/configurations/configuration/resource/globalVars project/instances/configurations/configuration/globalVars project/types/pous/pou/interface/inOutVars project/types/pous/pou/interface/inputVars project/types/pous/pou/interface/localVars project/types/pous/pou/interface/outputVars project/types/pous/pou/interface/tempVars					
attributes	Name	Type	Use	Default	Fixed	annotation
	name	xsd:string	optional			
	constant	xsd:boolean	optional	false		
	retain	xsd:boolean	optional	false		

	nonretain	xsd:boolean	optional	false
	persistent	xsd:boolean	optional	false
	nonpersistent	xsd:boolean	optional	false
annotation	documentation List of variable declarations that share the same memory attributes (CONSTANT, RETAIN, NON_RETAIN, PERSISTENT)			
source	<pre><xsd:complexType name="varList"> <xsd:annotation> <xsd:documentation>List of variable declarations that share the same memory attributes (CONSTANT, RETAIN, NON_RETAIN, PERSISTENT)</xsd:documentation> </xsd:annotation> <xsd:complexContent> <xsd:extension base="ppx:varListPlain"> <xsd:attribute name="name" type="xsd:string" use="optional"/> <xsd:attribute name="constant" type="xsd:boolean" use="optional" default="false"/> <xsd:attribute name="retain" type="xsd:boolean" use="optional" default="false"/> <xsd:attribute name="nonretain" type="xsd:boolean" use="optional" default="false"/> <xsd:attribute name="persistent" type="xsd:boolean" use="optional" default="false"/> <xsd:attribute name="nonpersistent" type="xsd:boolean" use="optional" default="false"/> </xsd:extension> </xsd:complexContent> </xsd:complexType></pre>			

attribute **varList/@name**

type	xsd:string
properties	isRef 0 use optional
source	<pre><xsd:attribute name="name" type="xsd:string" use="optional"/></pre>

attribute **varList/@constant**

type	xsd:boolean
properties	isRef 0 default false use optional
source	<pre><xsd:attribute name="constant" type="xsd:boolean" use="optional" default="false"/></pre>

attribute **varList/@retain**

type	xsd:boolean
properties	isRef 0 default false use optional
source	<pre><xsd:attribute name="retain" type="xsd:boolean" use="optional" default="false"/></pre>

attribute **varList/@nonretain**

type	xsd:boolean
properties	isRef 0 default false

	use optional
source	<code><xsd:attribute name="nonretain" type="xsd:boolean" use="optional" default="false"/></code>

attribute varList/@persistent

type	xsd:boolean
properties	isRef 0 default false use optional
source	<code><xsd:attribute name="persistent" type="xsd:boolean" use="optional" default="false"/></code>

attribute varList/@nonpersistent

type	xsd:boolean
properties	isRef 0 default false use optional
source	<code><xsd:attribute name="nonpersistent" type="xsd:boolean" use="optional" default="false"/></code>

complexType varListAccess

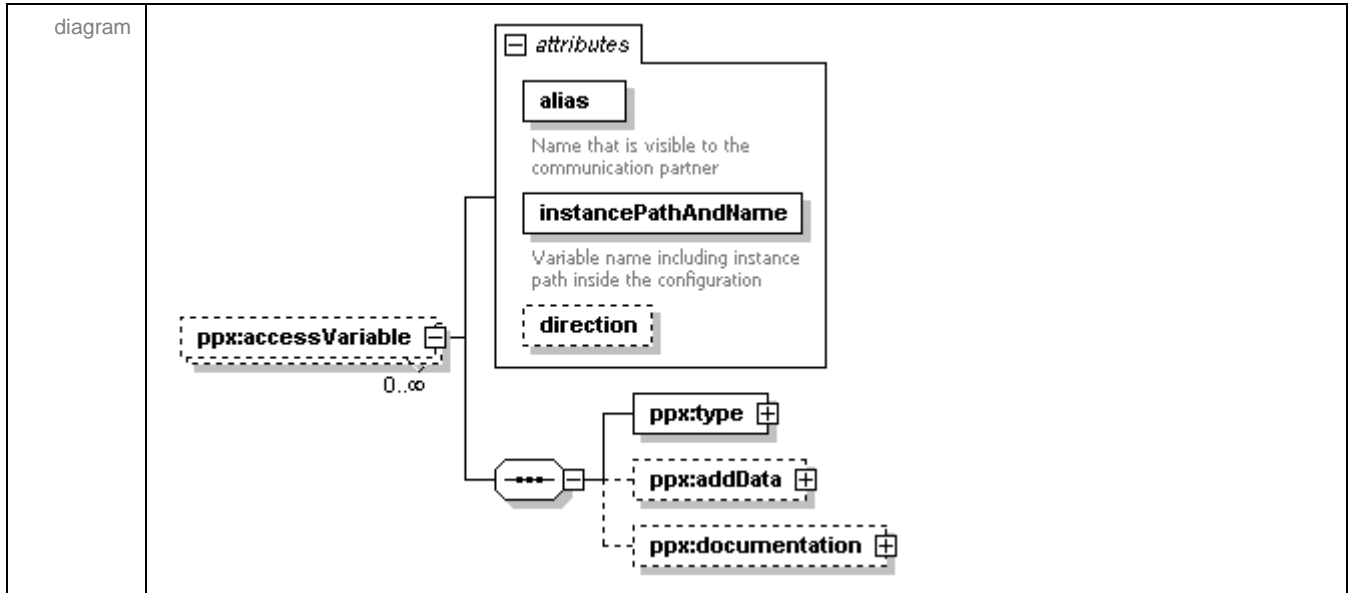
diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
children	ppx:accessVariable ppx:addData ppx:documentation
used by	element project/instances/configurations/configuration/accessVars
annotation	documentation List of access variable declarations
source	<pre> <xsd:complexType name="varListAccess"> <xsd:annotation> <xsd:documentation>List of access variable declarations</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="accessVariable" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Declaration of an access variable</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="type" type="ppx:dataType"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="alias" type="xsd:string" use="required"> <xsd:annotation> </pre>

```

<xsd:documentation>Name that is visible to the communication
partner</xsd:documentation>
</xsd:annotation>
</xsd:attribute>
<xsd:attribute name="instancePathAndName" type="xsd:string" use="required">
<xsd:annotation>
<xsd:documentation>Variable name including instance path inside the
configuration</xsd:documentation>
</xsd:annotation>
</xsd:attribute>
<xsd:attribute name="direction" type="ppx:accessType" use="optional"/>
</xsd:complexType>
</xsd:element>
<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>

```

element **varListAccess/accessVariable**



namespace	http://www.plcopen.org/xml/tc6_0201							
properties	isRef	0	minOcc	0	maxOcc	unbounded	content	complex
children	ppx:type ppx:addData ppx:documentation							
attributes	Name	Type	Use	Default	Fixed	annotation	documentation	Name that is visible to the communication partner
	alias	xsd:string	required			documentation	documentation	Variable name including instance path inside the configuration
	instancePathAndName	xsd:string	required					

	direction ppx:accessType optional
source	<pre> <xsd:element name="accessVariable" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Declaration of an access variable</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="type" type="ppx:dataType"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="alias" type="xsd:string" use="required"> <xsd:annotation> <xsd:documentation>Name that is visible to the communication partner</xsd:documentation> </xsd:annotation> </xsd:attribute> <xsd:attribute name="instancePathAndName" type="xsd:string" use="required"> <xsd:annotation> <xsd:documentation>Variable name including instance path inside the configuration</xsd:documentation> </xsd:annotation> </xsd:attribute> <xsd:attribute name="direction" type="ppx:accessType" use="optional"/> </xsd:complexType> </xsd:element> </pre>

attribute varListAccess/accessVariable/@alias

type	xsd:string
properties	isRef 0 use required
annotation	documentation Name that is visible to the communication partner
source	<pre> <xsd:attribute name="alias" type="xsd:string" use="required"> <xsd:annotation> <xsd:documentation>Name that is visible to the communication partner</xsd:documentation> </xsd:annotation> </xsd:attribute> </pre>

attribute varListAccess/accessVariable/@instancePathAndName

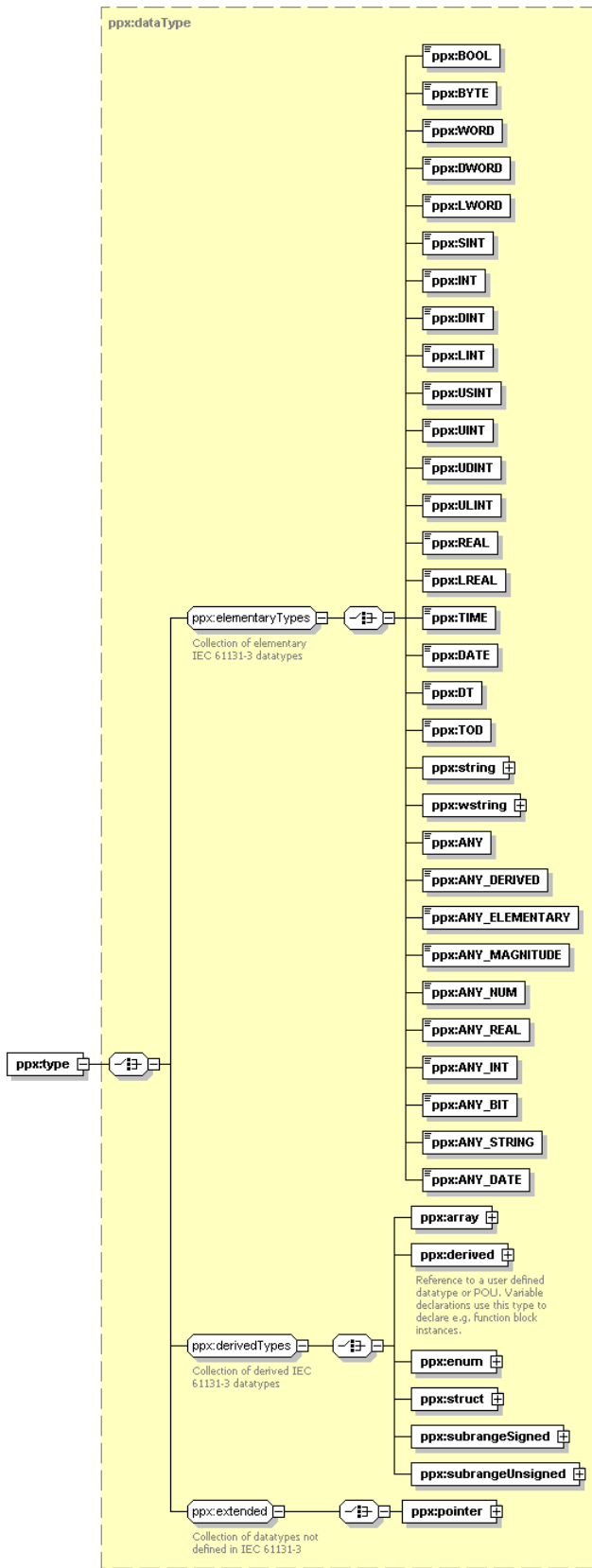
type	xsd:string
properties	isRef 0 use required
annotation	documentation Variable name including instance path inside the configuration
source	<pre> <xsd:attribute name="instancePathAndName" type="xsd:string" use="required"> <xsd:annotation> <xsd:documentation>Variable name including instance path inside the configuration</xsd:documentation> </xsd:annotation> </xsd:attribute> </pre>

attribute **varListAccess/accessVariable/@direction**

type	ppx:accessType
properties	isRef 0 use optional
facets	enumeration readOnly enumeration readWrite
source	<code><xsd:attribute name="direction" type="ppx:accessType" use="optional"/></code>

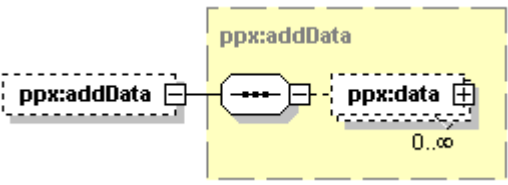
element varListAccess/accessVariable/type

diagram

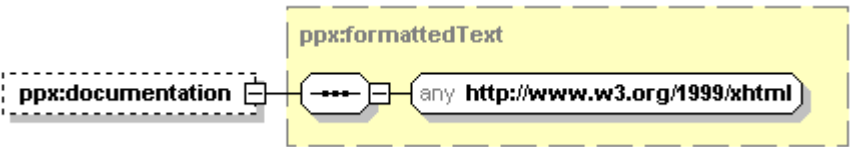


namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:dataType
properties	isRef 0 content complex
children	ppx:BOOL ppx:BYTE ppx:WORD ppx:DWORD ppx:LWORD ppx:SINT ppx:INT ppx:DINT ppx:LINT ppx:USINT ppx:UINT ppx:UDINT ppx:ULINT ppx:REAL ppx:LREAL ppx:TIME ppx:DATE ppx:DT ppx:TOD ppx:string ppx:wstring ppx:ANY ppx:ANY_DERIVED ppx:ANY_ELEMENTARY ppx:ANY_MAGNITUDE ppx:ANY_NUM ppx:ANY_REAL ppx:ANY_INT ppx:ANY_BIT ppx:ANY_STRING ppx:ANY_DATE ppx:array ppx:derived ppx:enum ppx:struct ppx:subrangeSigned ppx:subrangeUnsigned ppx:pointer
source	<xsd:element name="type" type="ppx:dataType"/>

element varListAccess/accessVariable/addData

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>

element varListAccess/accessVariable/documentation

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
source	<xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>

element varListAccess/addData

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<code><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></code>

element varListAccess/documentation

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
source	<code><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></code>

complexType varListConfig

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
children	ppx:configVariable ppx:addData ppx:documentation
used by	element project/instances/configurations/configuration/configVars
annotation	documentation List of VAR_CONFIG variables
source	<code><xsd:complexType name="varListConfig"></code> <code><xsd:annotation></code> <code><xsd:documentation>List of VAR_CONFIG variables</xsd:documentation></code>

```

</xsd:annotation>
<xsd:sequence>
  <xsd:element name="configVariable" minOccurs="0" maxOccurs="unbounded">
    <xsd:complexType>
      <xsd:annotation>
        <xsd:documentation>Declaration of an access variable</xsd:documentation>
      </xsd:annotation>
      <xsd:sequence>
        <xsd:element name="type" type="ppx:dataType"/>
        <xsd:element name="initialValue" type="ppx:value" minOccurs="0"/>
        <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
        <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
      </xsd:sequence>
      <xsd:attribute name="instancePathAndName" type="xsd:string" use="required">
        <xsd:annotation>
          <xsd:documentation>Variable name including instance path</xsd:documentation>
        </xsd:annotation>
      </xsd:attribute>
      <xsd:attribute name="address" type="xsd:string" use="optional"/>
    </xsd:complexType>
  </xsd:element>
  <xsd:element name="addData" type="ppx:addData" minOccurs="0"/>
  <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>

```

element **varListConfig/configVariable**

diagram								
namespace	http://www.plcopen.org/xml/tc6_0201							
properties	isRef	0	minOcc	0	maxOcc	unbounded	content	complex
children	ppx:type ppx:initialValue ppx:addData ppx:documentation							
attributes	Name	Type	Use	Default	Fixed	annotation	documentation	Variable name including
	instancePathAndName	xsd:string	required					

	address	xsd:string	optional	instance path
source	<pre> <xsd:element name="configVariable" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Declaration of an access variable</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="type" type="ppx:dataType"/> <xsd:element name="initialValue" type="ppx:value" minOccurs="0"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="instancePathAndName" type="xsd:string" use="required"> <xsd:annotation> <xsd:documentation>Variable name including instance path</xsd:documentation> </xsd:annotation> </xsd:attribute> <xsd:attribute name="address" type="xsd:string" use="optional"/> </xsd:complexType> </xsd:element> </pre>			

attribute `varListConfig/configVariable/@instancePathAndName`

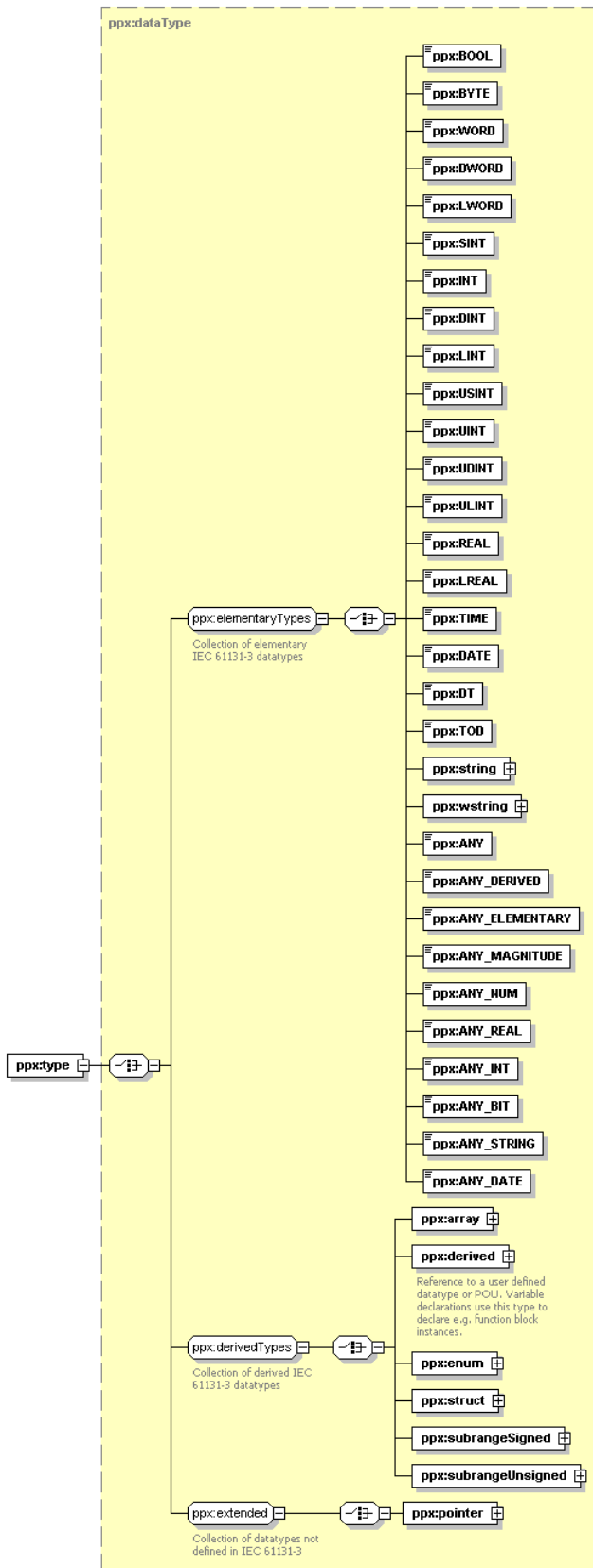
type	xsd:string
properties	isRef 0 use required
annotation	documentation Variable name including instance path
source	<pre> <xsd:attribute name="instancePathAndName" type="xsd:string" use="required"> <xsd:annotation> <xsd:documentation>Variable name including instance path</xsd:documentation> </xsd:annotation> </xsd:attribute> </pre>

attribute `varListConfig/configVariable/@address`

type	xsd:string
properties	isRef 0 use optional
source	<pre> <xsd:attribute name="address" type="xsd:string" use="optional"/> </pre>

element varListConfig/configVariable/type

diagram



namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:dataType
properties	isRef 0 content complex
children	ppx:BOOL ppx:BYTE ppx:WORD ppx:DWORD ppx:LWORD ppx:SINT ppx:INT ppx:DINT ppx:LINT ppx:USINT ppx:UINT ppx:UDINT ppx:ULINT ppx:REAL ppx:LREAL ppx:TIME ppx:DATE ppx:DT ppx:TOD ppx:string ppx:wstring ppx:ANY ppx:ANY_DERIVED ppx:ANY_ELEMENTARY ppx:ANY_MAGNITUDE ppx:ANY_NUM ppx:ANY_REAL ppx:ANY_INT ppx:ANY_BIT ppx:ANY_STRING ppx:ANY_DATE ppx:array ppx:derived ppx:enum ppx:struct ppx:subrangeSigned ppx:subrangeUnsigned ppx:pointer
source	<xsd:element name="type" type="ppx:dataType"/>

element varListConfig/configVariable/initialValue

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:value
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:simpleValue ppx:arrayValue ppx:structValue
source	<xsd:element name="initialValue" type="ppx:value" minOccurs="0"/>

element varListConfig/configVariable/addData

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>

element varListConfig/configVariable/documentation

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
source	<code><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></code>

element varListConfig/addData

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<code><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></code>

element varListConfig/documentation

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:formattedText
properties	isRef 0 minOcc 0 maxOcc 1 content complex
source	<code><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></code>

complexType varListPlain

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
children	ppx:variable ppx:addData ppx:documentation
used by	element derivedTypes/struct complexType varList
annotation	documentation List of variable declarations without attributes
source	<pre> <xsd:complexType name="varListPlain"> <xsd:annotation> <xsd:documentation>List of variable declarations without attributes</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="variable" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Declaration of a variable</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="type" type="ppx:dataType"/> <xsd:element name="initialValue" type="ppx:value" minOccurs="0"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="name" type="xsd:string" use="required"/> <xsd:attribute name="address" type="xsd:string" use="optional"/> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> </xsd:complexType> </pre>

element varListPlain/variable

diagram						
namespace	http://www.plcopen.org/xml/tc6_0201					
properties	isRef	0				
	minOcc	0				
	maxOcc	unbounded				
	content	complex				
children	ppx:type ppx:initialValue ppx:addData ppx:documentation					
attributes	Name	Type	Use	Default	Fixed	annotation
	name	xsd:string	required			
	address	xsd:string	optional			
	globalId	xsd:ID	optional			
source	<pre> <xsd:element name="variable" minOccurs="0" maxOccurs="unbounded"> <xsd:complexType> <xsd:annotation> <xsd:documentation>Declaration of a variable</xsd:documentation> </xsd:annotation> <xsd:sequence> <xsd:element name="type" type="ppx:dataType"/> <xsd:element name="initialValue" type="ppx:value" minOccurs="0"/> <xsd:element name="addData" type="ppx:addData" minOccurs="0"/> <xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/> </xsd:sequence> <xsd:attribute name="name" type="xsd:string" use="required"/> <xsd:attribute name="address" type="xsd:string" use="optional"/> <xsd:attribute name="globalId" type="xsd:ID" use="optional"/> </xsd:complexType> </xsd:element> </pre>					

attribute varListPlain/variable/@name

type	xsd:string
properties	isRef 0 use required
source	<code><xsd:attribute name="name" type="xsd:string" use="required"/></code>

attribute varListPlain/variable/@address

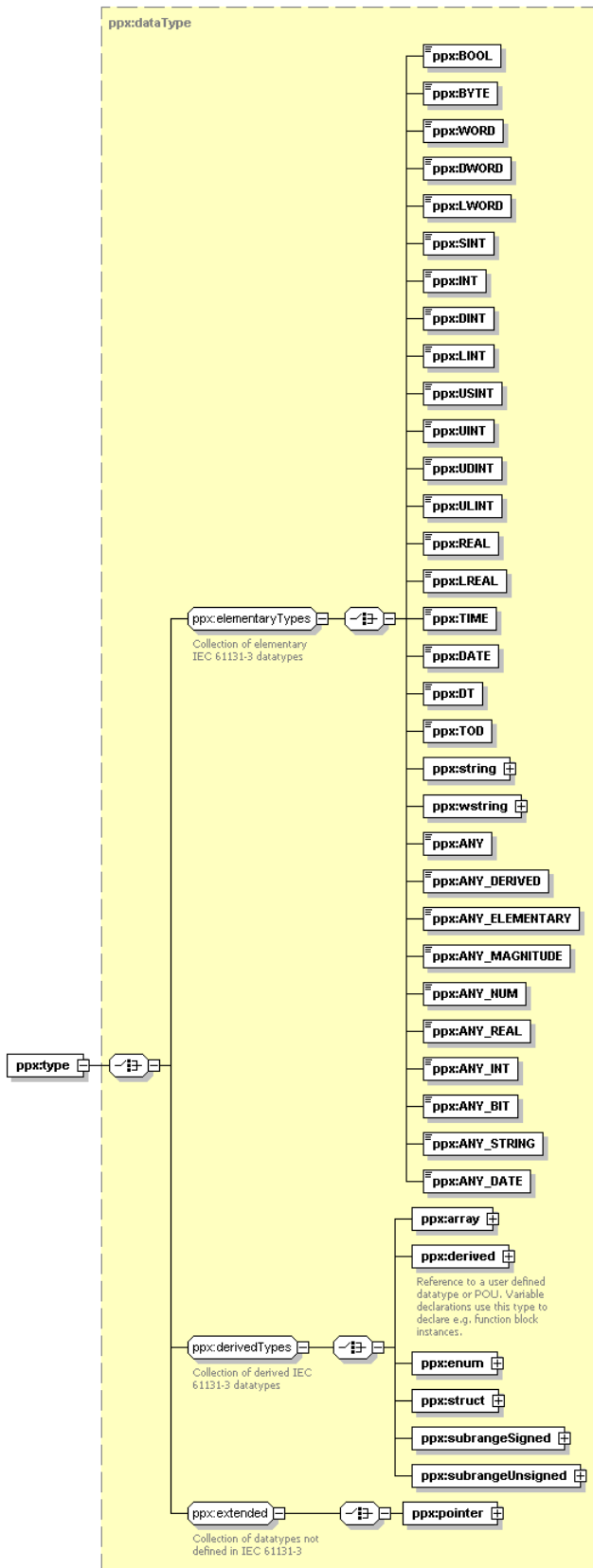
type	xsd:string
properties	isRef 0 use optional
source	<code><xsd:attribute name="address" type="xsd:string" use="optional"/></code>

attribute varListPlain/variable/@globalId

type	xsd:ID
properties	isRef 0 use optional
source	<code><xsd:attribute name="globalId" type="xsd:ID" use="optional"/></code>

element varListPlain/variable/type

diagram



namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:dataType
properties	isRef 0 content complex
children	ppx:BOOL ppx:BYTE ppx:WORD ppx:DWORD ppx:LWORD ppx:SINT ppx:INT ppx:DINT ppx:LINT ppx:USINT ppx:UINT ppx:UDINT ppx:ULINT ppx:REAL ppx:LREAL ppx:TIME ppx:DATE ppx:DT ppx:TOD ppx:string ppx:wstring ppx:ANY ppx:ANY_DERIVED ppx:ANY_ELEMENTARY ppx:ANY_MAGNITUDE ppx:ANY_NUM ppx:ANY_REAL ppx:ANY_INT ppx:ANY_BIT ppx:ANY_STRING ppx:ANY_DATE ppx:array ppx:derived ppx:enum ppx:struct ppx:subrangeSigned ppx:subrangeUnsigned ppx:pointer
source	<xsd:element name="type" type="ppx:dataType"/>

element varListPlain/variable/initialValue

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:value
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:simpleValue ppx:arrayValue ppx:structValue
source	<xsd:element name="initialValue" type="ppx:value" minOccurs="0"/>

element varListPlain/variable/addData

diagram	
namespace	http://www.plcopen.org/xml/tc6_0201
type	ppx:addData
properties	isRef 0 minOcc 0 maxOcc 1 content complex
children	ppx:data
source	<xsd:element name="addData" type="ppx:addData" minOccurs="0"/>

element varListPlain/variable/documentation

diagram									
namespace	http://www.plcopen.org/xml/tc6_0201								
type	ppx:formattedText								
properties	<table> <tr><td>isRef</td><td>0</td></tr> <tr><td>minOcc</td><td>0</td></tr> <tr><td>maxOcc</td><td>1</td></tr> <tr><td>content</td><td>complex</td></tr> </table>	isRef	0	minOcc	0	maxOcc	1	content	complex
isRef	0								
minOcc	0								
maxOcc	1								
content	complex								
source	<code><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></code>								

element varListPlain/addData

diagram									
namespace	http://www.plcopen.org/xml/tc6_0201								
type	ppx:addData								
properties	<table> <tr><td>isRef</td><td>0</td></tr> <tr><td>minOcc</td><td>0</td></tr> <tr><td>maxOcc</td><td>1</td></tr> <tr><td>content</td><td>complex</td></tr> </table>	isRef	0	minOcc	0	maxOcc	1	content	complex
isRef	0								
minOcc	0								
maxOcc	1								
content	complex								
children	ppx:data								
source	<code><xsd:element name="addData" type="ppx:addData" minOccurs="0"/></code>								

element varListPlain/documentation

diagram									
namespace	http://www.plcopen.org/xml/tc6_0201								
type	ppx:formattedText								
properties	<table> <tr><td>isRef</td><td>0</td></tr> <tr><td>minOcc</td><td>0</td></tr> <tr><td>maxOcc</td><td>1</td></tr> <tr><td>content</td><td>complex</td></tr> </table>	isRef	0	minOcc	0	maxOcc	1	content	complex
isRef	0								
minOcc	0								
maxOcc	1								
content	complex								
source	<code><xsd:element name="documentation" type="ppx:formattedText" minOccurs="0"/></code>								

simpleType **accessType**

namespace	http://www.plcopen.org/xml/tc6_0201
type	restriction of xsd:NMTOKEN
used by	attribute varListAccess/accessVariable/@direction
facets	enumeration readOnly enumeration readWrite
annotation	documentation Defines the different access types to an accessVariable
source	<pre><xsd:simpleType name="accessType"> <xsd:annotation> <xsd:documentation>Defines the different access types to an accessVariable</xsd:documentation> </xsd:annotation> <xsd:restriction base="xsd:NMTOKEN"> <xsd:enumeration value="readOnly"/> <xsd:enumeration value="readWrite"/> </xsd:restriction> </xsd:simpleType></pre>

simpleType **edgeModifierType**

namespace	http://www.plcopen.org/xml/tc6_0201
type	restriction of xsd:string
used by	attributes commonObjects/vendorElement/inputVariables/variable/@edge commonObjects/vendorElement/inOutVariables/variable/@edge commonObjects/vendorElement/outputVariables/variable/@edge fbdObjects/block/inputVariables/variable/@edge fbdObjects/block/inOutVariables/variable/@edge fbdObjects/block/outputVariables/variable/@edge fbdObjects/inVariable/@edge fbdObjects/outVariable/@edge ldObjects/coil/@edge ldObjects/contact/@edge fbdObjects/inOutVariable/@edgeIn fbdObjects/inOutVariable/@edgeOut
facets	enumeration none enumeration falling enumeration rising
annotation	documentation Defines the edge detection behaviour of a variable
source	<pre><xsd:simpleType name="edgeModifierType"> <xsd:annotation> <xsd:documentation>Defines the edge detection behaviour of a variable</xsd:documentation> </xsd:annotation> <xsd:restriction base="xsd:string"> <xsd:enumeration value="none"/> <xsd:enumeration value="falling"/> <xsd:enumeration value="rising"/> </xsd:restriction> </xsd:simpleType></pre>

simpleType **pouType**

namespace	http://www.plcopen.org/xml/tc6_0201
type	restriction of xsd:NMTOKEN
used by	attribute project/types/pous/pou/@pouType
facets	enumeration function enumeration functionBlock

	enumeration program
annotation	documentation Defines the different types of a POU
source	<pre><xsd:simpleType name="pouType"> <xsd:annotation> <xsd:documentation>Defines the different types of a POU</xsd:documentation> </xsd:annotation> <xsd:restriction base="xsd:NMTOKEN"> <xsd:enumeration value="function"/> <xsd:enumeration value="functionBlock"/> <xsd:enumeration value="program"/> </xsd:restriction> </xsd:simpleType></pre>

simpleType storageModifierType

namespace	http://www.plcopen.org/xml/tc6_0201
type	restriction of xsd:string
used by	attributes commonObjects/vendorElement/inputVariables/variable/@storage commonObjects/vendorElement/inOutVariables/variable/@storage commonObjects/vendorElement/outputVariables/variable/@storage fbdObjects/block/inputVariables/variable/@storage fbdObjects/block/inOutVariables/variable/@storage fbdObjects/block/outputVariables/variable/@storage fbdObjects/inVariable/@storage fbdObjects/outVariable/@storage ldObjects/coil/@storage ldObjects/contact/@storage fbdObjects/inOutVariable/@storageIn fbdObjects/inOutVariable/@storageOut
facets	enumeration none enumeration set enumeration reset
annotation	documentation Defines the storage mode (S/R) behaviour of a variable
source	<pre><xsd:simpleType name="storageModifierType"> <xsd:annotation> <xsd:documentation>Defines the storage mode (S/R) behaviour of a variable</xsd:documentation> </xsd:annotation> <xsd:restriction base="xsd:string"> <xsd:enumeration value="none"/> <xsd:enumeration value="set"/> <xsd:enumeration value="reset"/> </xsd:restriction> </xsd:simpleType></pre>