








1 AutomationML Libraries, representing a System

Short Description	<p>This example shows a simple AutomationML document (2.0) which contains:</p> <ul style="list-style-type: none"> • one InstanceHierarchy with InternalElements • one SystemUnitClassLib with one SystemUnitClass • one RoleClassLib with one RoleClass • and one InterfaceClassLib with one InterfaceClass <p>The elements in this example are designed to model some aspects of a manufacturing system. The RoleClassLib contains a RoleClass to characterize a system component as a 'Tool'. The InterfaceClassLib contains an InterfaceClass which models the energy supply of any tool. The SystemUnitClassLib contains a class representing an electric screwdriver. The InstanceHierarchy describes a manufacturing system containing the screwdrivers in the system.</p> <p>The used AutomationML-Libraries are stored in separated CAEX files and included via external references.</p>
Specification Part, Reference Documents	<p>Part 1 – Architecture</p> <p>AutomationML Whitepaper Part 1 -Architecture</p>
Screen Shot AutomationML Editor	<p>RoleClassLib</p> <ul style="list-style-type: none"> ▲  ManufacturingRoleClasses <ul style="list-style-type: none"> Role Tool { Class: AutomationMLBaseRole } <p>InterfaceClassLib</p> <ul style="list-style-type: none"> ▲  MyInterfaces <ul style="list-style-type: none"> Energy { Class: AutomationMLBaseInterface } <p>SystemUnitClassLib</p> <ul style="list-style-type: none"> ▲  LibOfCommonTools <ul style="list-style-type: none"> ▶  ElectricScrewdriver { Class: } <p>InstanceHierarchy</p> <ul style="list-style-type: none"> ▲  ManufacturingSystem <ul style="list-style-type: none"> ▶  firstScrewdriver { Class: ElectricScrewdriver Role: Tool } ▶  secondScrewdriver { Class: ElectricScrewdriver Role: Tool } <hr/> <p>Used Libraries</p> <p>AutomationMLBaseRoleClassLib</p> <p>AutomationMLInterfaceClassLib</p>