

## CHANGE HISTORY

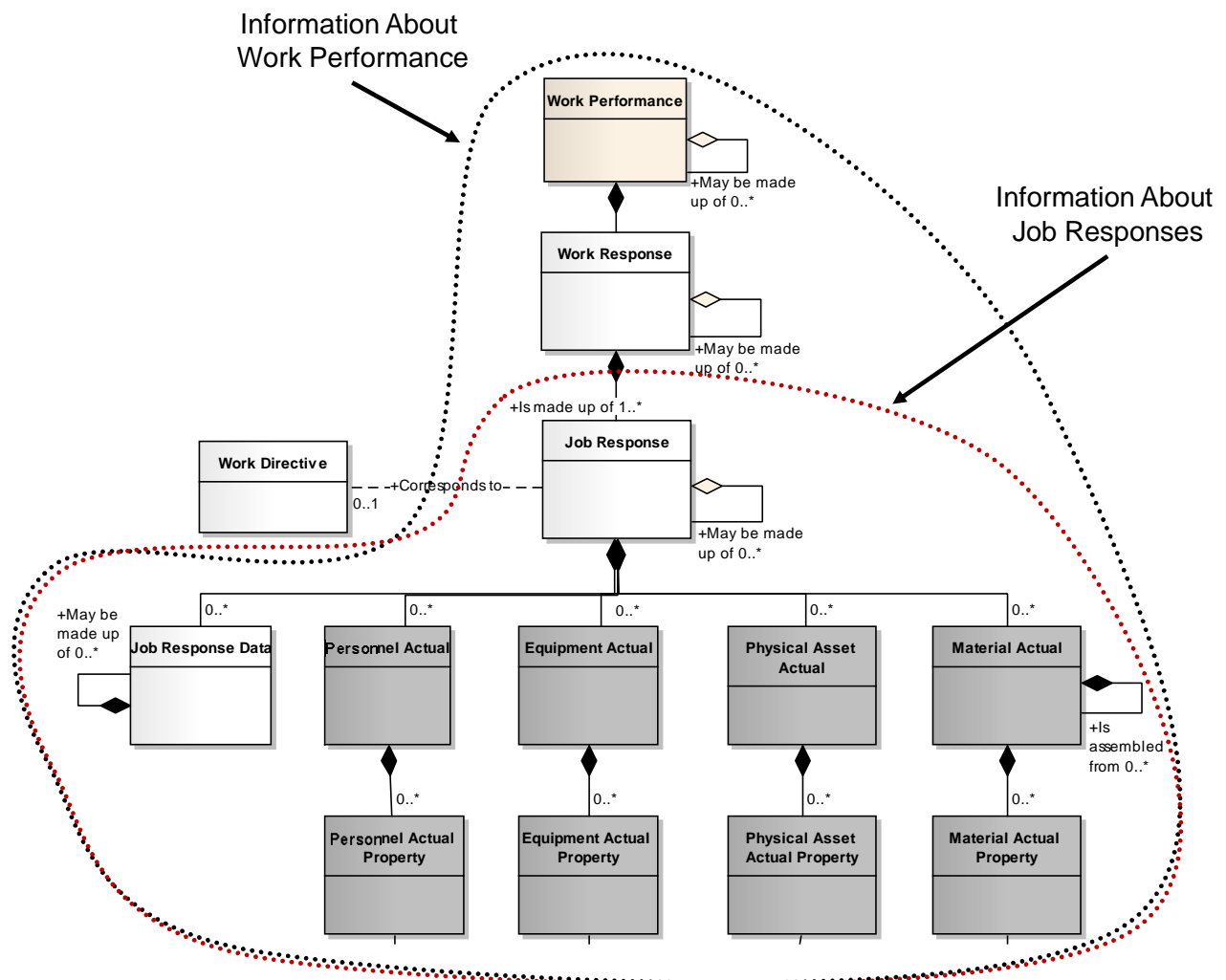
Change	Date	Person	Description
V0600	Aug 2012	D. Brandl	<ul style="list-style-type: none"><li>• Initial Version</li></ul>

## SCHEMA SCOPE

This document defines the information about Work Performance information. This information is based on the data models and attributes defined in the ANSI/ISA 95.00.04 Enterprise/Control System Integration standard. Contact ISA (The Instrumentation, System, and Automation Society) for copies of the standard. Additional information on the standard is available at [www.isa.org](http://www.isa.org).

## Key Information Assumptions

The data represented in these schemas is derived from the UML model below. This model is defined in the ANSI/ISA 95.00.04 standard. The information model in the figure below is hierarchical, and the assumption is that the information may be accessed by Work Response or by Job Response.



Model of Exchanged Work Performance and Job Response Information

This schema uses a common schema for definition of elements that are used in multiple schemas, such as ID, Description, and Value. See the document defining the Common schema for definition of the common elements.

## Type Definitions

The XML schema uses a model that defines simple and complex data types for each element. The data types all follow the convention of a suffix of "Type" added to the element name. Elements that have the same name in other B2MML schemas are also prefixed with "Op" to uniquely identify the extension group.

### Schema definition:

```
<xsd:element name = "OpPersonnelActual" type = " OpPersonnelActualType"/>

<xsd:complexType name = "OpPersonnelActualType">
  <xsd:sequence>
    <xsd:element name = "PersonnelClassID" type = "PersonnelClassIDType"
                  minOccurs = "0" />
    ...
  </xsd:sequence>
</xsd:complexType>
```

The method is a modification of the "Venetian Blind Model", defined in the book Professional XML Schemas, 2001, published by WROX (ISBN 1-861005-47-4). It makes all of the type names global and usable in user derived works, without a loss of context or additional information required to identify the element as of being of the same type as related B2MML elements

## WorkPerformance

A Work Performance report is made up of a set of one or more work responses. The Work Performance also contains the information that defines the context of the report, such as start time, end time, location, and published date.

## WorkResponse

Work responses are collections of job responses. A response may include the type of work, and the start time, end time.

## JobResponse

A JobResponse is the response from operations about the execution of a job order.

## EquipmentActual

An equipment actual in a Job Response identifies an equipment resource by class ID or instance ID used during execution of the job.

## PersonnelActual

A personnel actual in a Job Response identifies a personnel resource by class ID or by instance ID used during execution of the job.

## PhysicalAssetActual

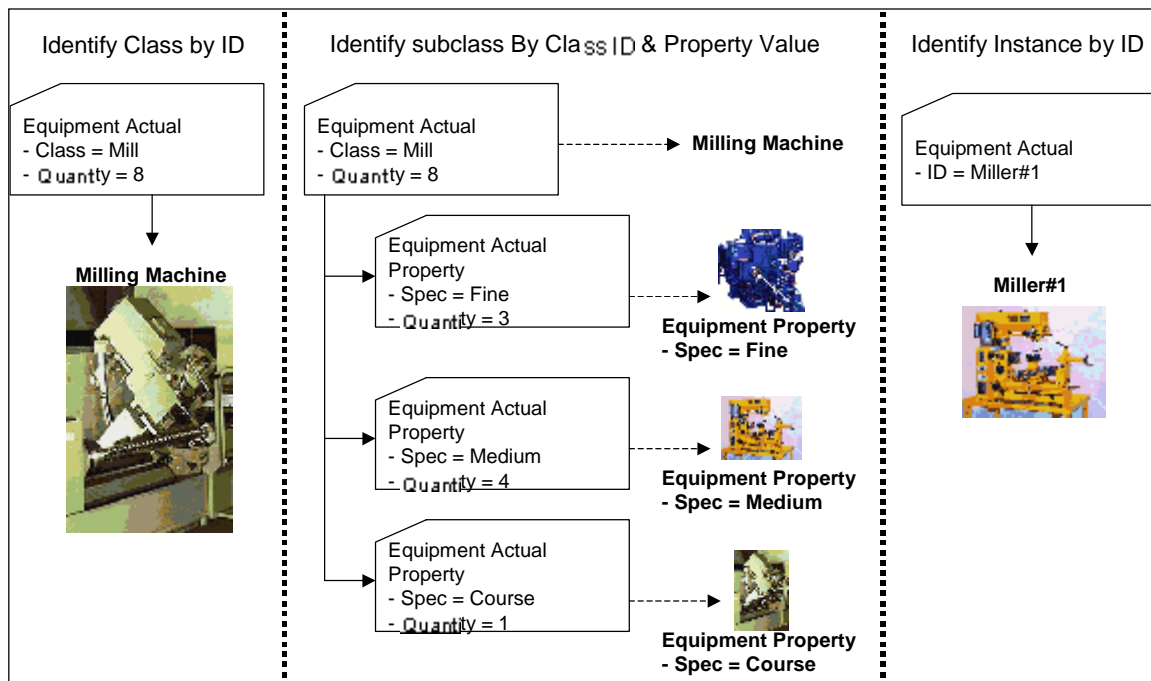
A physical asset actual in a Job Response identifies a physical asset resource by class ID or instance ID used during execution of the job.

## MaterialActual

A material produced, material consumed, or consumable material actually used is identified in a MaterialActual. This identifies a material resource by class ID, definition ID, Lot ID, and/or Sublot ID produced or consumed during execution of the job.

## Identifying Resources

The schemas follow the ANSI/ISA-95 standard by defining resources by class ID or instance ID, or by defining them by class ID and a property value that is used to define a subset of the resource. For example, the figure below illustrates that a segment may require a certain number of milling machine, an equipment class. Other segments may require a subset of milling machine, such as "Fine" milling machines only. In the first case the class name, "Mill", is sufficient to identify the resource required. In the second case the class name, "Mill", and property name and value, "Spec" and "Fine", define the required resource. Alternatively a specific resource may be identified in a Job Response report, such as specifying an actual milling machine with ID="Miller#1".



以上内容仅为本文档的试下载部分，为可阅读页数的一半内容。如要下载或阅读全文，请访问：<https://d.book118.com/258121121106006101>