



Business To Manufacturing Markup Language

Personnel

Version 6.0 - March 2013

B2MML-V06RC02-Personnel



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Table of Contents

CHANGE HISTORY	3
SCHEMA SCOPE	4
Key Information Assumptions	4
PersonnelInformation	5
Person	5
PersonnelClass	5
QualificationTestSpecification	5
ELEMENT DEFINITIONS	6
TRANSACTION ELEMENTS	10
DIAGRAM CONVENTION	12

CHANGE HISTORY

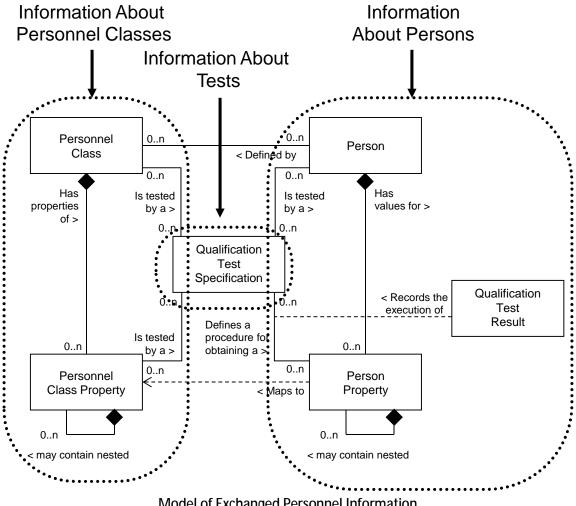
CHANGE HISTORY			
Change	Date	Person	Description
V01	7 April 2002	Dennis Brandl Dave Emerson	Initial release
V02	23 Sept 2003	Dennis Brandl Dave Emerson	Added Location to person, Changed ##any to "Any" element of type "AnyType"
V03	26 Aug 2005	Dennis Brandl Dave Emerson	Added substitution groups. One group added just before each Any element.
V0301	29 Dec 2005	Dennis Brandl	Only changed version to v0301
V04	04 June 2007	Dennis Brandl	Added transaction elements
V0401	Oct 2008	Dennis Brandl	Changed Version number
V0500	Mar 2011	Dennis Brandl	Updated for ISA 95.02-2010Removed ##any elements
V0600	Aug 2012	D. Brandl	Updated MESA Copyright

SCHEMA SCOPE

This document defines the information about persons, personnel class, and qualification tests that may be exchanged between business systems and manufacturing operations systems. This information is based on the data models and attributes defined in the ANSI/ISA 95.00.02 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.

Key Information Assumptions

The data represented in these schemas is derived from the UML model below. This model is defined in the ANSI/ISA 95.00.02 standard. The information model in the model below is not hierarchical, so the key assumption is that the information may be accessed from any of three starting points: personnel class, person, or qualification test, as identified by the dotted collections in the figure.



Model of Exchanged Personnel 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.

PersonnelInformation

The main structuring element of the schema definition is PersonnelInformation. PersonnelInformation contains definitions of personnel classes, persons, and qualification test specifications.

Person

A person represents a specifically identified individual. A person may be a member of zero or more personnel classes. Person elements may be used to contain information about specific personnel. It may also include the definition of qualification test results. It may include the list of personnel classes the person belongs to and the list of qualification test specifications associated with properties.

PersonnelClass

A personnel class is a means to describe a grouping of persons with similar characteristics for purposes of scheduling and planning. Any person may be a member of zero or more personnel classes. Examples of personnel classes are "Cook Machine Mechanics", "Slicing Machine Operators", "Cat-Cracker Operator", and "Zipper Line Inspectors".

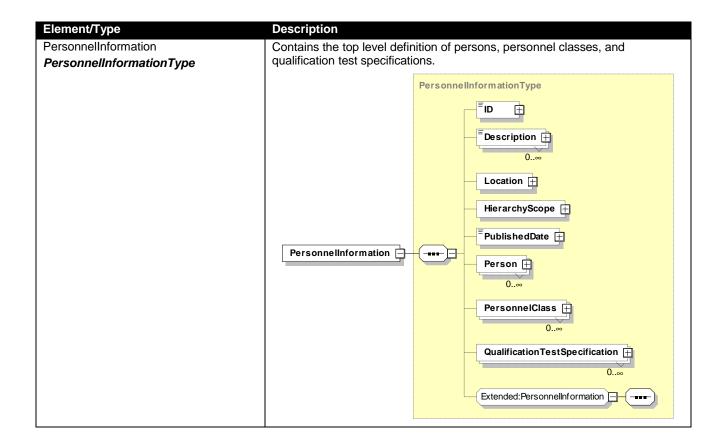
PersonnelClass information may be used to contain information about personnel classes. It may contain the list of persons belonging to a class and the list of qualification test specifications associated with personnel class properties.

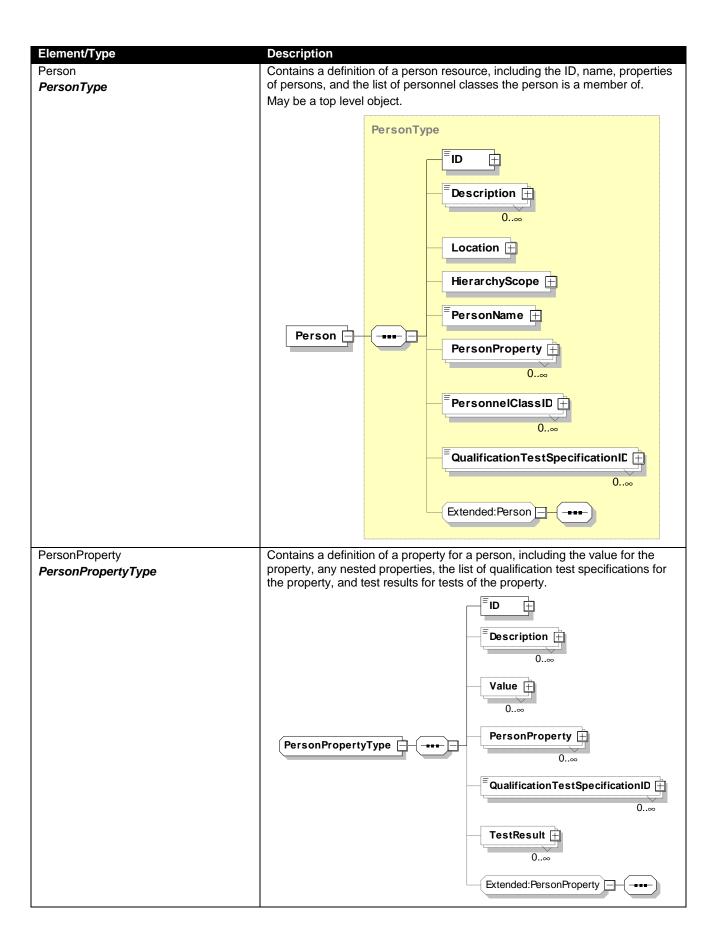
QualificationTestSpecification

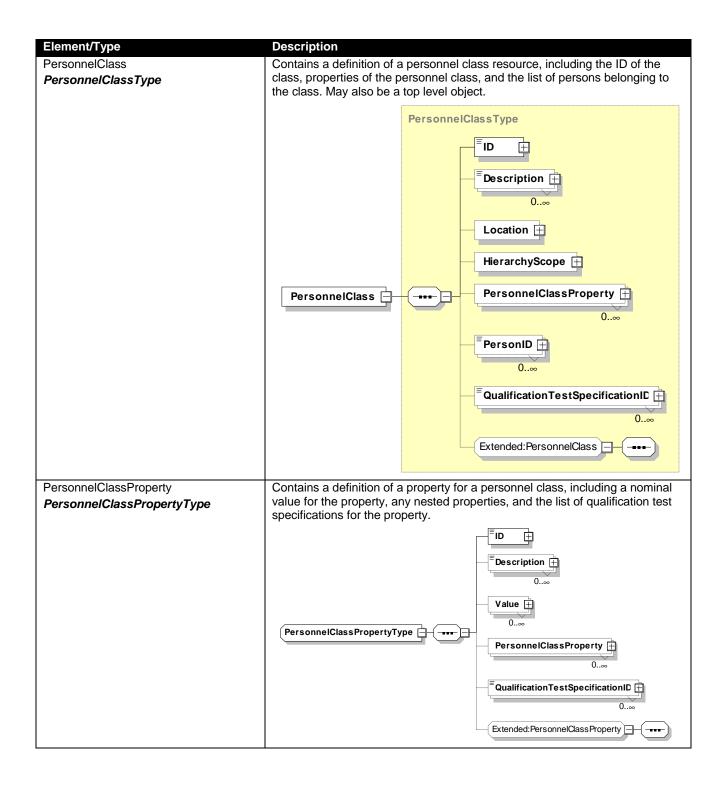
A qualification test specification may be associated with a personnel class property or person property. This is typically used where a qualification test is required to ensure that a person has the correct training and/or experience for specific operations. A qualification test specification may test for one or more properties.

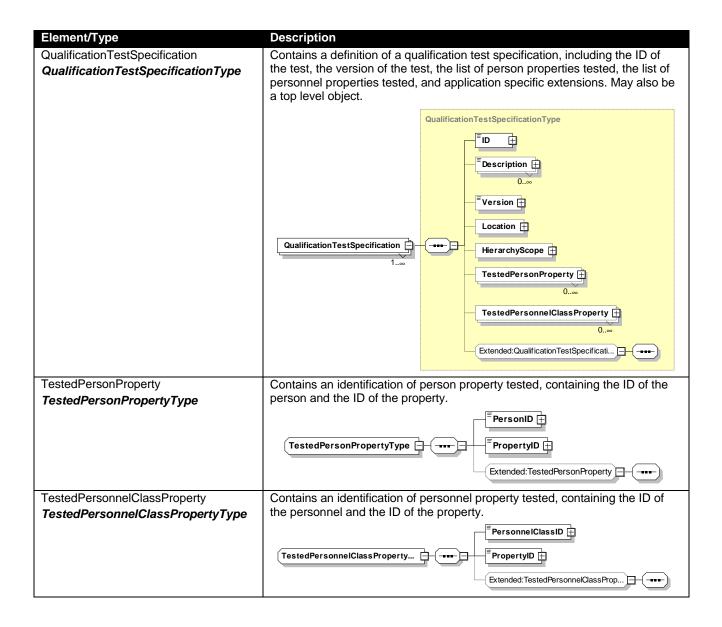
QualificationTestSpecification information may be used to contain information about qualification tests. It may contain identifications of the tested person properties and the tested personnel class properties.

ELEMENT DEFINITIONS









TRANSACTION ELEMENTS

The following elements are defined to support the ISA 95 Part 5 transactions, using the transaction data types defined in the B2MML-Common.xsd schema.

Personnel Information Elements	Description
GetPersonnelInformation	Get PersonnelClass, Person, and QualificationTestSpecification definitions.
ShowPersonnelInformation	Returned information from the <i>GetPersonnelInformation</i> message.
ProcessPersonnelInformation	Process PersonnelClass, Person, and QualificationTestSpecification definitions.
AcknowledgePersonnelInformation	Returned status from the <i>ProcessPersonnelInformation</i> message.
ChangePersonnelInformation	Change PersonnelClass, Person, and QualificationTestSpecification definitions.
RespondPersonnelInformation	Returned status from the <i>ChangePersonnelInformation</i> message.
CancelPersonnelInformation	Cancel PersonnelClass, Person, and QualificationTestSpecification definitions.
SyncPersonnelInformation	Published PersonnelClass, Person, and QualificationTestSpecification definitions.

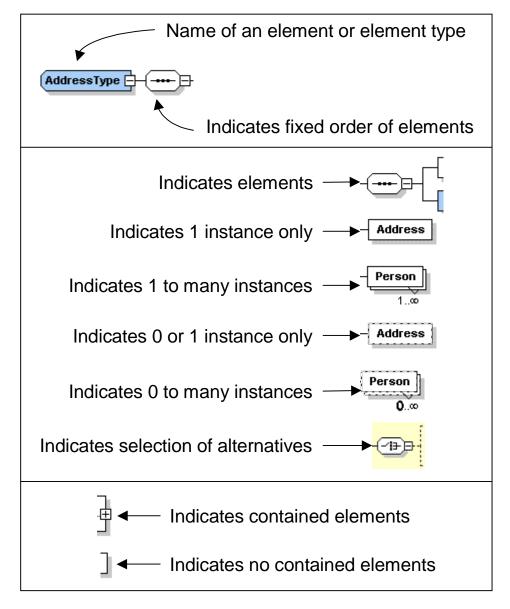
Personnel Class Elements	Description
GetPersonnelClass	Get PersonnelClass definitions.
ShowPersonnelClass	Returned information from the GetPersonnelClass message.
ProcessPersonnelClass	Process PersonnelClass definitions.
AcknowledgePersonnelClass	Returned status from the <i>ProcessPersonnelClass</i> message.
ChangePersonnelClass	Change PersonnelClass definitions.
RespondPersonnelClass	Returned status from the ChangePersonnelClass message.
CancelPersonnellClass	Cancel PersonnelClass definitions.
SyncPersonnelClass	Published <i>PersonnelClass</i> definitions.

Person Elements	Description
GetPerson	Get <i>Person</i> definitions.
ShowPerson	Returned information from the <i>GetPerson</i> message.
ProcessPerson	Process <i>Person</i> definitions.
AcknowledgePerson	Returned status from the <i>ProcessPerson</i> message.
ChangePerson	Change <i>Person</i> definitions.
RespondPerson	Returned status from the <i>ChangePerson</i> message.
CancelPerson	Cancel <i>Person</i> definitions.
SyncPerson	Published <i>Person</i> definitions.

QualificationTestSpecification Elements	Description
GetQualificationCapabilityTestSpecification	Get QualificationTestSpecification definitions.
ShowQualificationCapabilityTestSpecification	Returned information from the GetQualificationCapabilityTestSpecification message.
ProcessQualificationCapabilityTestSpecification	Process QualificationTestSpecification definitions.
AcknowledgeQualificationCapabilityTestSpecification	Returned status from the ProcessQualificationCapabilityTestSpecification message.
ChangeQualificationCapabilityTestSpecification	Change QualificationTestSpecification definitions.
RespondQualificationCapabilityTestSpecification	Returned status from the ChangeQualificationCapabilityTestSpecification message.
CancelQualificationCapabilityTestSpecification	Cancel QualificationTestSpecificationdefinitions.
SyncQualificationCapabilityTestSpecification	Published <i>QualificationTestSpecification</i> definitions.

DIAGRAM CONVENTION

The schema diagrams using the following convention to illustrate the structure of the schema elements, the type of the elements and attributes, and the rules for optional elements and repetition.





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About the XML Committee: The XML Committe was formed within MESA to provide a forum for the development of the B2MML and BatchML specifications.