Multiple Vocabulary Facility (MVF)

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Preface

OMG

Founded in 1989, the Object Management Group, Inc. (OMG) is an open membership, not-for-profit computer industry standards consortium that produces and maintains computer industry specifications for interoperable, portable, and reusable enterprise applications in distributed, heterogeneous environments. Membership includes Information Technology vendors, end users, government agencies, and academia.

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OMG Specifications

As noted, OMG specifications address middleware, modeling and vertical domain frameworks. All OMG Specifications are available from the OMG website at:

http://www.omg.org/spec

Specifications are organized by the following categories:

Business Modeling Specifications

Middleware Specifications

- CORBA/IIOP
- Data Distribution Services
- Specialized CORBA

IDL/Language Mapping Specifications

Modeling and Metadata Specifications

- UML, MOF, CWM, XMI
- UML Profile

Modernization Specifications

Platform Independent Model (PIM), Platform Specific Model (PSM), Interface Specifications

- CORBAServices
- CORBAFacilities
OMG Domain Specifications

CORBA Embedded Intelligence Specifications

CORBA Security Specifications

All of OMG’s formal specifications may be downloaded without charge from our website. (Products implementing OMG specifications are available from individual suppliers.) Copies of specifications, available in PostScript and PDF format, may be obtained from the Specifications Catalog cited above or by contacting the Object Management Group, Inc. at:

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Certain OMG specifications are also available as ISO standards. Please consult http://www.iso.org

Typographical Conventions

The type styles shown below are used in this document to distinguish programming statements from ordinary English. However, these conventions are not used in tables or section headings where no distinction is necessary.

Times/Times New Roman - 10 pt.: Standard body text

Helvetica/Arial - 10 pt. Bold: OMG Interface Definition Language (OMG IDL) and syntax elements.


Helvetica/Arial - 10 pt: Exceptions

NOTE: Terms that appear in italics are defined in the glossary. Italic text also represents the name of a document, specification, or other publication.

Issues

The reader is encouraged to report any technical or editing issues/problems with this specification to http://www.omg.org/report_issue.htm.
Response to the MVF RFP

1.1 Background

Why is this needed / what gaps does it fill

Concept of Operations

1.2 Copyright Waiver and IPR Mode

1.3 Submission Team

1.4 Response to Requirements

1.5 Use of Existing OMG Specifications

1.6 Prototyping and Implementations
1 Scope

The Scope clause shall appear at the beginning of each specification and define, without ambiguity, the subject of the specification and the aspect(s) covered. It indicates the limits of applicability of the specification or particular parts of it. It shall not contain requirements.

The scope shall be succinct so that it can be used as a summary for bibliographic purposes. It shall be worded as a series of statements of fact.

2 Conformance

The Conformance clause identifies which clauses of the specification are mandatory (or conditionally mandatory) and which are optional in order for an implementation to claim conformance to the specification.

Note: For conditionally mandatory clauses, the conditions must, of course, be specified.

3 References

3.1 Normative References

The following normative documents contain provisions which, through reference in this text, constitute provisions of this specification. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply.

List of normative references.

3.2 Non-normative References

List of non-normative references.

4 Terms and Definitions

For the purposes of this specification, the following terms and definitions apply.

Term

Definition

Term

Definition
5 Symbols

List of symbols/abbreviations.

6 Additional Information

6.1 Changes to Adopted OMG Specifications [optional]

This specification completely replaces the xxx specification.

6.2 Acknowledgments

The following companies submitted this specification:

- xxxxx
- xxxxx
- xxxxx

The following companies supported this specification:

- xxxxx
- xxxxx
- xxxxx

7 Specification [chapter title]
7.1 General [sample Heading 2]

This clause presents the normative specification for the common infrastructure metamodel. It begins with an overview of the metamodel structure followed by a description of each sub-package.

7.2 Heading [sample Heading 2]

Text

Figure 1 - figure title
7.2.1 Sub clause [sample Heading 3]

Text

7.2.1.1 PrimitiveTypes [sample Heading 4]

Text.

Boolean

Package: PrimitiveTypes
isAbstract: No

Description

Boolean is an instance of PrimitiveType. In the metamodel, Boolean defines an enumeration that denotes a logical condition. Its enumeration literals are:

- true - Text
- false - Text

Comment

Package: Comments
isAbstract: No
Generalization: “Element”

Description

A comment is a textual annotation that can be attached to a set of elements. A comment gives the ability to attach various remarks to elements. A comment carries no semantic force, but may contain information that is useful to a modeler. A comment may be owned by any element. A Comment adds no semantics to the annotated elements, but may represent information useful to the reader of the model.

Attributes

body: String [0..1] Specifies a string that is the comment.

Associations

annotatedElement : Element [*] References the Element(s) being commented.

Element

Package: Comments
isAbstract: Yes
Generalization: “Element”
Description

An element can own comments. The comments for an Element add no semantics but may represent information useful to the reader of the model.

Associations

ownedComment : Comment [*]  
The Comments owned by this element.  
Subsets ownedElement

The Relationships subpackage of the Abstractions package adds support for directed relationships.

7.3  Condition Model  [sample Heading 2]

7.3.1  Introduction  [sample Heading 3]

Text.

7.3.1.1  Boolean ValueSpecification

Package: Condition Model  
isAbstract: No  
Generalization: “ValueSpecification”

Description

1.  Text  
2.  Text  
3.  Text

Text:

-  Text  
-  Text  
-  

Sample footnotes:

Text¹ and more text²

¹  Footnote text.  
²  Footnote text.
Table 1.

<table>
<thead>
<tr>
<th>Package</th>
<th>Comment</th>
</tr>
</thead>
</table>
| Business Process Definition MetaModel   | The Business Process Definition MetaModel package contains the models for orchestration (including BPMN) and choreography, and their performance, enactment, and execution. It has six subpackages grouped into two categories:  
                                           | Common Behavior Model for the aspects of dynamics in common between orchestrations and choreography (Behavior Model, and Interactive Behavior Model).  
                                           | Activity Model (including BPMN Extensions) for orchestration and Interaction Protocol Model for choreography.  
                                           | The Business Process Definition MetaModel package imports the Common Infrastructure package which provides the framework that ties the other models to performance, enactment, and execution (Abstractions, Composition Model, Course Model, and Condition Model). |
| Common Infrastructure                   | The Common Abstractions package is the framework that ties the other models to performance, enactment, and execution (Composition Model, Course Model and Condition Model). |
Annex A: Title

(normative)

A.1 Sub clause heading

Text

Normative annexes are integral parts of the standard. Their presence is optional. An annex’s normative status (as opposed to informative) shall be made clear by the way in which it is referred to in the text and under the heading of the annex.

Informative annexes give additional information intended to assist the understanding or use of the standard and shall not contain provisions to which it is necessary to conform in order to be able to claim compliance with the standard. Their presence is optional. An annex’s informative status (as opposed to normative) shall be made clear by the way in which it is referred to in the text and under the heading of the annex.

A.2 Sub clause heading

Text
Annex B: Title

(normative)

B.1 Sample IDL

#pragma prefix “http://example.com"

module stockquote_wsd1 {
    interface StockQuotePortType {
        typedef sequence<float> ArrayOfFloat;
        typedef struct TimePeriod {
            wstring startTime;
            wstring endTime;
        };
        ArrayOfFloat GetTradePrices(
            in  wstring tickerSymbol,
            in TimePeriod timePeriod,
            out float frequency);
    };
}

B.2 Sample Code

<?xml version="1.0"?>

<definitions name="StockQuote"
    targetNamespace="http://example.com/stockquote.wsdl"
    xmlns:tns="http://example.com/stockquote.wsdl"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema"
    xmlns:xsd1="http://example.com/stockquote/schema"
    xmlns="http://schemas.xmlsoap.org/wsdl/">

    <types>
        <schema targetNamespace="http://example.com/stockquote/schema"
            xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
            xmlns="http://www.w3.org/2001/XMLSchema">
            <complexType name="TimePeriod">
                <all>
                    <element name="startTime" type="xsd:string"/>
                    <element name="endTime" type="xsd:string"/>
                </all>
            </complexType>
            <complexType name="ArrayOfFloat">
                <complexContent>
                    <restriction base="soapenc:Array">
                        <list/>
                    </restriction>
                </complexContent>
            </complexType>
        </schema>
    </types>
</definitions>