

ICS 35.040
CCS L 72



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 32392.3-2015

**Information technology -- Metamodel framework for
interoperability (MFI) -- Part 3: Metamodel for ontology
registration**

信息技术 互操作性元模型框架 (MFI) 第3部分: 本体注册元模型
(English Translation)

Issued on: December 31, 2015

Implemented on: January 1, 2017

Issued by: Standardization Administration of China

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Foreword

GB/T 32392 "IT metamodel interoperability framework (MFI)" contains the following sections.

- Part 1. Reference Model;
- Part 2. Core model;
- Part 3. Registry metamodel ontology;
- Part 4. Model Mapping element model;
- Part 5. Model component metamodel framework;
- Part 6. registration procedure.

This section GB/T Part of 332,392.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses the translation method identical with ISO/IEC 19763-3:2007 "Information technology metamodel interoperability framework (MFI) first Part 3. Registry metamodel ontology "(in English).

Consistency correspondence between this part of international documents and normative references of our files are as follows.

--- GB 32392.1-2015 IT metamodel interoperability framework (MFI) - Part 1. Reference Model (ISO/IEC 19763-1:2007, IDT) Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

This part of the National Information Technology Standardization Technical Committee (SAC/TC28) and focal points.

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Introduction

As e-commerce widely disseminated on the Internet, the business trade across countries and cultures, and other relevant information exchange has become the IT People outside the industry major concern.

In order to closely follow the development trend of e-commerce, many industry organizations have launched standardization work in the field of business-related objects, including the use of Business process models and software components UML modeling and XML and other public facilities and exchange facilities. They focused on the normative field phase Off process model and standard modeling components, such as data elements, solid profile range and so on.

In addition, the autonomy-based interoperability of Web applications (such as Web services) can also become increasingly important. Ontology is to achieve the key for this purpose. On the domain ontology is described. Dictionaries, classification systems, thesaurus and conceptual models (eg UML-based business process model Type) are all examples of the body. Moreover, the body also includes a more complicated theory axioms.

Currently, the industry is developing some of the body-related standards. For example, OMG upcoming ODM specification defines the use of a variety of its mapping between metamodel ontology description language. For GB/T 32392, as defined in this section and the relevant registration body element Data, you can extend this part of the main body of relevant standards to provide support. In addition, based on the body in order to promote interoperability, the need to provide a Management information to register a generic framework related to the body.

This section will provide management information associated with the body of a register-based GB/T 32392.2-2015 general framework for.

NOTE: UML and OMG are trademarks of the Object Management Group.

IT metamodel interoperability framework (MFI) Part 3. Registry metamodel ontology

1 Scope

This part of the framework GB/T 32392 requirements by a plurality of components for the information technology field between the inner guide element model interoperability Implementation.

Metamodel registered under this Part related to the management body of information provides an infrastructure that can facilitate between applications Interoperability.

This section does not apply to regulations based on a particular ontology mapping meta-model of the language and the meta model. These other Specifications (such as bulk Definition Metamodel ODM) has been specified.

Figure 1 depicts the scope of this section.

Range 1 registered body element model

2.1 Summary

Claiming this part of the consistent implementation should support metadata model specified in 5.3, the meta-model depends on the degree of compliance with the following description.

2.2.1 Overview

In order to meet the interoperability and scalability needs, must distinguish a "strictly conforming" and "consistent" to achieve. This section describes the pro