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

GB/T 32392.5-2018

**Information technology -- Metamodel framework for
interoperability (MFI) -- Part 5: Metamodel for process model
registration**

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Foreword

GB/T 32392 "Information Technology Interoperability Metamodel Framework (MFI)" is divided into the following sections.

- Part 1. Reference model;
- Part 2. The core model;
- Part 3. Ontology Registration Metamodel;
- Part 4. Model Mapping Metamodel;
- Part 5. The process model registration metamodel;
- Part 7. Service model registration metamodel;
- Part 8. Role and Target Model Registration Metamodel;
- Part 9. On-demand model selection.

This part is Part 5 of GB/T 32392.

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

This section uses the translation method identical to the ISO /IEC 19763-5:2015 "Information Technology Interoperability Meta-Model Framework (MFI)

Part 5. Process Model Registration Metamodel."

The Chinese documents that have a consistent correspondence with the normatively quoted international documents in this section are as follows.

---GB/T 32392.1-2015 Information technology interoperability meta-model framework (MFI)
Part 1. Reference model (ISO /
IEC 19763-1:2007, IDT)

---GB/T 32392.7-2018 Information Technology Interoperability Meta-model Framework (MFI) Part 7. Service Model Registry

Model (ISO /IEC 19763-7.2015, IDT)

---GB/T 32392.8-2018 Information Technology Interoperability Meta-Modeling Framework (MFI) Part 8. Role and Object Model

Registration Metamodel (ISO /IEC 19763-8.2015, IDT)

Introduction

In the context of global economic integration, the economic pressures companies face in simplifying product development and delivery and reducing operating costs

Drive the development of business process collaboration and integration. Enterprises can solve these problems by merging and forming partnerships. because

Therefore, it is necessary to provide a standard registration database for the process model so that it can be discovered, understood and compared to support the reuse and integration of the process.

Into the interoperability between the enterprise and the enterprise.

Business process modeling languages and symbology have been widely used to represent processes. However, these process models are in grammar and language

There are significant differences in meaning, hindering the sharing and reuse of business processes among enterprises. Therefore, we need to provide a universal registration mechanism.

Register the management information and core metadata of the process model.

This section defines a metamodel for registering part of the process model's metadata and semantic information to support the discovery of business processes and

Reuse. This section provides public semantic information for the process model to help people understand the process structure and process relationships and assist in the process.

The discovery of a process without focusing on the original modeling symbols used by the business process. This section does not consider any grammar with process modeling and

Process execution platform related information. In particular, although the process model registration information can be used to further support process-based and Web services

The associated service discovery indicates that the business process of the internal execution sequence and service composition information of the Web service does not belong to this section.

Research category.

Note. In this section, "process" refers specifically to "business process" and "process

model" refers specifically to "business process model."

Information Technology Interoperability Meta Model Framework (MFI)

Part 5. The Process Model Registration Metamodel

1 Scope

The main goal of ISO /IEC 19763 is to build a meta-model framework that supports interoperability.

This section proposes a metamodel as a registration mechanism for process model management information and some core metadata. This section defines

The meta-model is mainly used to promote the semantic discovery and reuse of the process model between the process model repository and the process model repository. This section is for the use of special

Fixed Process Modeling Language [eg BPMN (Business Process Modeling Symbolology), UML (Unified Modeling Language) Activity Diagram, EPC (Event Driven

Business Process Chains, etc.] The process model created provides core metadata and common semantics, and the defined meta-model can help discover process performance.

Ability and composition to promote the reuse of process components with different particle sizes. Figure 1 describes the scope of this section.

Note. The model does not need to be stored in the registry before registration.

Figure 1 The scope of this section

The following content is beyond the scope of this section.

- Details related to the process model modeling notation or description language;
- The execution environment or implementation platform of the process.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article

Pieces. For undated references, the latest version (including all amendments) applies to this document.

ISO /IEC 19763-1 Information technology interoperability metamodel framework Part 1. Framework (Informationtechnology-

Metamodelframeworkforinteroperability(MFI)-Part 1.Framework)

ISO /IEC 19763-7 Information technology interoperability metamodel framework Part 7.

Service model registration metamodel

(Information technology - Metamodel framework for interoperability (MFI) - Part 7. Metamodel for

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