
Enterprise modelling and architecture — Constructs for enterprise modelling

*Modélisation et architecture d'entreprise — Constructions pour la
modélisation d'entreprise*

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Contents

Page

Foreword	vi
Introduction	viii
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Abbreviated terms	11
4.1 General	11
4.2 Construct-specific	11
5 Representations, relationships, roles and common concepts	12
5.1 Modelling language constructs, purpose and applicability	12
5.2 Dimensions of enterprise models	13
5.2.1 Dimension of genericity	13
5.2.2 Dimension of enterprise model phase	13
5.2.3 Dimension of enterprise model views	13
5.3 Construct representation	13
5.4 Common structure for modelling language constructs	14
5.5 Template for modelling language constructs	14
5.6 Referential integrity	15
5.7 Representation of attributes	17
5.8 Notation used to describe template contents	17
5.9 Support for modelling phases	18
5.10 Representation of relationships	19
5.11 Specializations	19
5.12 Complementary concepts	20
6 Conceptual structure	20
6.1 The four-component model	20
6.2 Meta-model component	21
6.3 Core component	22
6.4 Derivations component	24
6.5 Views component	25
7 Core constructs	26
7.1 Domain	26
7.1.1 Purpose	26
7.1.2 Description	26
7.1.3 Usage	26
7.1.4 Construct template for Domain	26
7.2 Business Process	28
7.2.1 Purpose	28
7.2.2 Description	28
7.2.3 Usage	29
7.2.4 Construct template for Business Process	29
7.2.5 Behavioural rules	30
7.3 Enterprise Activity	31
7.3.1 Purpose	31
7.3.2 Description	31
7.3.3 Usage	31
7.3.4 Construct template for Enterprise Activity	32
7.4 Service	34
7.4.1 Purpose	34
7.4.2 Description	34
7.4.3 Usage	34
7.4.4 Construct template for Service	35

7.5	Event	37
7.5.1	Purpose	37
7.5.2	Description	37
7.5.3	Usage	37
7.5.4	Construct template for Event	37
7.6	Enterprise Object	38
7.6.1	Purpose	38
7.6.2	Description	38
7.6.3	Usage	38
7.6.4	Construct template for Enterprise Object	39
7.7	Enterprise Object View (Object View)	40
7.7.1	Purpose	40
7.7.2	Description	40
7.7.3	Usage	40
7.7.4	Construct template for Object View	40
7.8	Organizational Unit	41
7.8.1	Purpose	41
7.8.2	Description	41
7.8.3	Usage	41
7.8.4	Construct template for Organizational Unit	42
7.9	Decision Centre	43
7.9.1	Purpose	43
7.9.2	Description	43
7.9.3	Usage	43
7.9.4	Construct template for Decision Centre	43
7.10	Role	45
7.10.1	Purpose	45
7.10.2	Description	45
7.10.3	Usage	45
7.10.4	Construct template for Role	45
7.11	Product	46
7.11.1	Purpose	46
7.11.2	Description	46
7.11.3	Usage	46
7.11.4	Construct template for Product	47
7.12	Order	48
7.12.1	Purpose	48
7.12.2	Description	48
7.12.3	Usage	48
7.12.4	Construct template for Order	49
7.13	Resource	50
7.13.1	Purpose	50
7.13.2	Description	50
7.13.3	Usage	51
7.13.4	Construct template for Resource	51
7.14	Capability	53
7.14.1	Purpose	53
7.14.2	Description	53
7.14.3	Usage	53
7.14.4	Construct template for Capability	53
7.15	Performance Indicator	54
7.15.1	Purpose	54
7.15.2	Description	54
7.15.3	Usage	55
7.15.4	Construct template for Performance Indicator	55
7.16	Template attributes for core constructs	56
8	Derived constructs	57
8.1	Overview	57

8.2	Derivations for a manufacturing-oriented enterprise	58
8.2.1	Purpose	58
8.2.2	Use of core constructs	58
8.2.3	Manufacturing derivations and core constructs	59
8.3	Derivations for a service-oriented enterprise	61
8.3.1	Purpose	61
8.3.2	Service system suppliers	61
8.3.3	Use of core constructs	61
8.3.4	Service derivations and core constructs	62
8.4	Derived constructs	63
8.4.1	Organizational Role	63
8.4.2	Operational Role	64
8.4.3	Person Profile	65
8.4.4	Stakeholder	67
8.4.5	User	68
8.4.6	Co-provider	69
8.4.7	Functionality	69
Annex A (normative) Behavioural rules — Detailed description and syntax		71
Annex B (informative) Model views		85
Bibliography		110

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 184, *Automation systems and integration*, Subcommittee SC 5, *Interoperability, integration, and architectures for enterprise systems and automation applications*.

This second edition cancels and replaces the first edition (ISO 19440:2007), which has been technically revised.

The main changes compared to the previous edition are as follows:

- updates to the terms and definitions to address latest practice and harmonize with ISO 15704 and ISO/IEC/IEEE 42010;
- reorganization of the material into four components (metamodel, core constructs, specializations and model views), as described in [6.1](#);
- separation of the constructs into a slightly smaller number of core constructs in [6.3](#) and [Clause 7](#), and specializations thereof (which can be extended by a model user) in [Clause 8](#);
- introduction of a Service construct as a core construct, with specializations in [8.3](#) to address servitization;
- expansion of the Decision View in [Clause B.4](#) and introduction of a new Collaboration View in [Clause B.5](#) to demonstrate extensibility, i.e. use in other application domains;
- renaming of the construct property 'descriptive' as 'attribute';
- introduction of a Role core construct as a generalization of Organizational Role, Operational Role and Person Profile;
- introduction of a Performance Indicator core construct to support operational monitoring and process improvement;
- allowing an Enterprise Activity to be decomposable into sub-activities;

- elimination of Functional Entity to reduce the number of core constructs and replacing it by ‘active Resource’;
- insertion (in [Clause A.1](#)) of new text explaining why and how behavioural rules need to be constrained;
- deletion of annexes which will be included in a future Technical Report on typical usages of identification and usage of constructs in each model phase.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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