
**Information technology — Object
Management Group Business Process
Model and Notation**

*Technologies de l'information — Modèle de procédé d'affaire et notation
de l'OMG*

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Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 19510 was prepared by the Object Management Group (OMG), as the OMG Business Process Model and Notation (BPMN), version 2.0.1, and was adopted, under the PAS procedure, by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, in parallel with its approval by national bodies of ISO and IEC.

Introduction

The primary goal of BPMN is to provide a notation that is readily understandable by all business users, from the business analysts that create the initial drafts of the processes, to the technical developers responsible for implementing the technology that will perform those processes, and finally, to the business people who will manage and monitor those processes. Thus, BPMN creates a standardized bridge for the gap between the business process design and process implementation.

This specification represents the amalgamation of best practices within the business modeling community to define the notation and semantics of Collaboration diagrams, Process diagrams, and Choreography diagrams. The intent of BPMN is to standardize a business process model and notation in the face of many different modeling notations and viewpoints. In doing so, BPMN will provide a simple means of communicating process information to other business users, process implementers, customers, and suppliers.

The specification provided by this International Standard is identical to OMG BPMN 2.0.1.

Information technology - Object Management Group Business Process Model and Notation

1 Scope

1.1 General

The **Object Management Group** (OMG) has developed a standard **Business Process Model and Notation (BPMN)**. The primary goal of **BPMN** is to provide a notation that is readily understandable by all business users, from the business analysts that create the initial drafts of the processes, to the technical developers responsible for implementing the technology that will perform those processes, and finally, to the business people who will manage and monitor those processes. Thus, **BPMN** creates a standardized bridge for the gap between the business process design and process implementation.

Another goal, but no less important, is to ensure that XML languages designed for the execution of business processes, such as **WSBPEL** (Web Services Business Process Execution Language), can be visualized with a business-oriented notation.

This International Standard represents the amalgamation of best practices within the business modeling community to define the notation and semantics of **Collaboration** diagrams, **Process** diagrams, and **Choreography** diagrams. The intent of **BPMN** is to standardize a business process model and notation in the face of many different modeling notations and viewpoints. In doing so, **BPMN** will provide a simple means of communicating process information to other business users, process implementers, customers, and suppliers.

The membership of the OMG has brought forth expertise and experience with many existing notations and has sought to consolidate the best ideas from these divergent notations into a single standard notation. Examples of other notations or methodologies that were reviewed are UML Activity Diagram, UML EDOC Business Processes, IDEF, ebXML BPSS, Activity-Decision Flow (ADF) Diagram, RosettaNet, LOVeM, and Event-Process Chains (EPCs).

2 Conformance

2.1 General

Software can claim compliance or conformance with **BPMN 2.0** if and only if the software fully matches the applicable compliance points as stated in the International Standard. Software developed only partially matching the applicable compliance points can claim only that the software was based on this International Standard, but cannot claim compliance or conformance with this International Standard. The International Standard defines four types of conformance namely **Process Modeling Conformance**, **Process Execution Conformance**, **BPEL Process Execution Conformance**, and **Choreography Modeling Conformance**.