
**Building information modelling —
Information delivery manual —**

**Part 1:
Methodology and format**

*Modèles des informations de la construction — Contrat d'interchange —
Partie 1: Méthodologie et format*



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member 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 shall not be held responsible for identifying any or all such patent rights.

ISO 29481-1 was prepared by Technical Committee ISO/TC 59, *Building construction*, Subcommittee SC 13, *Organization of information about construction works*.

ISO 29481 consists of the following parts, under the general title *Building information modelling — Information delivery manual*:

— *Part 1: Methodology and format*

The following part is planned:

— *Part 2: Management communication*

Introduction

Building information modelling provides a concept for describing and displaying information required in the design, construction and operation of constructed facilities. It can bring together the diverse sets of information used in construction into a common information environment - reducing, and often eliminating, the need for the many types of paper documentation currently in use.

An information delivery manual (IDM) provides significant help in getting the full benefit from a building construction information model (BIM). If the information required is available when it is needed and the quality of information is satisfactory, the construction process itself will be greatly improved.

For this to happen, there should be a common understanding of the building processes and of the information that is needed for and results from their execution.

This part of ISO 29481 sets out a methodology and format for the provision of an integrated reference for the processes and data required by a BIM. It describes how to identify and describe the processes undertaken within construction, and the information required for their execution and the results. This part of ISO 29481 also describes how this information can be further detailed to support solutions provided by building-information-system providers in a form that enables its reuse and how it can be configured to meet national, local and project needs.

In doing so, this part of ISO 29481 provides a basis for reliable information exchange/sharing for users so that they can be confident that the information they are receiving is accurate and sufficient for the activities they need to perform. The development of this part of ISO 29481 has been driven by the need of users for reliability in information exchange.

Examples and guidelines related to the development of IDMs will be published at: <http://www.standard.no/IDM>. The site will be developed and maintained by the ISO/TC 59/SC 13 secretariat.

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Building information modelling — Information delivery manual —

Part 1: Methodology and format

1 Scope

This part of ISO 29481 specifies a methodology and format for the development of an information delivery manual (IDM).

This part of ISO 29481 specifies

- a methodology that unites the flow of construction processes with the specification of the information required by this flow,
- a form in which the information should be specified, and
- an appropriate way to map and describe the information processes within a construction life cycle.

This part of ISO 29481 is intended to facilitate interoperability between software applications used in the construction process, to promote digital collaboration between actors in the construction process and to provide a basis for accurate, reliable, repeatable and high-quality information exchange.

2 Terms and definitions

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

2.1

actor

person, organization or organizational unit (such as a department, team, etc.) involved in a construction process

2.2

building construction information model BIM

shared digital representation of physical and functional characteristics of any built object (including buildings, bridges, roads, etc.) which forms a reliable basis for decisions

NOTE “Building information model” is frequently used as a synonym for BIM.

2.3

building information system

system used to create, maintain, disclose or expire elements of a building information model

NOTE The components of the system can include actors, hardware (servers, clients, peers) and software solutions.