

Building information models - Information delivery
manual - Part 2: Interaction framework (ISO
29481-2:2012)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 29481-2:2016 sisaldab Euroopa standardi EN ISO 29481-2:2016 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 29481-2:2016 consists of the English text of the European standard EN ISO 29481-2:2016.
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English Version

Building information models - Information delivery
manual - Part 2: Interaction framework (ISO 29481-
2:2012)

Modèles des informations de la construction - Contrat
d'interchange - Partie 2: Cadre d'interaction (ISO
29481-2:2012)

BIM - Informationshandbuch - Teil 2:
Interaktionsstruktur (ISO 29481-2:2012)

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European foreword

The text of ISO 29481-2:2012 has been prepared by Technical Committee ISO/TC 59 “Buildings and civil engineering works” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 29481-2:2016 by Technical Committee CEN/TC 442 “Building Information Modelling (BIM)” the secretariat of which is held by SN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2017, and conflicting national standards shall be withdrawn at the latest by April 2017.

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Endorsement notice

The text of ISO 29481-2:2012 has been approved by CEN as EN ISO 29481-2:2016 without any modification.

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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 focuses on aspects of the construction process that refer to management and coordination of the involved parties. Coordination is dependent on communication, which should be well structured, unambiguous, explicit, and prompt. Due to a sharp focus on coordination and interaction, this part of ISO 29481 provides a natural complement to standards that focus on building modelling like ISO 10303-239 and ISO 16739.

This part of ISO 29481 sets out a methodology and format for describing coordination acts between actors in a construction project. It describes how to identify and define the coordination processes undertaken and the information required for their execution. The resulting interaction frameworks enable standardization of interaction in building processes on national, local, and project level. It also gives a format to support solutions provided by ICT-solution providers. Support of this part of ISO 29481 in different ICT-solutions means that this joins together different process management systems. In doing so, it provides a basis for reliable information exchange/sharing for users, so that they can be confident that the information they are sending or receiving is accurate and sufficient for the coordination 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. It is mainly based on the Dutch VISI standard developed in 2003.

Building information models — Information delivery manual —

Part 2: Interaction framework

1 Scope

This part of ISO 29481 specifies a methodology and format for describing 'coordination acts' between actors in a building construction project during all life cycle stages.

It therefore specifies

- a methodology that describes an interaction framework,
- an appropriate way to map responsibilities and interactions that provides a process context for information flow,
- a format in which the interaction framework should be specified.

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 building construction process, and to provide a basis for accurate, reliable, repeatable, and high-quality information exchange.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 29481-1, *Building information modelling — Information delivery manual — Part 1: Methodology and format*

3 Terms and definitions

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

3.1 IDM

Information Delivery Manual

documentation which captures the business process and gives detailed specifications of the information that a user fulfilling a particular role would need to provide at a particular point within a project

3.2

interaction framework

formal description of the elements of interaction, including definition of roles, transactions, messages in transaction, and data elements in messages

3.3

interaction framework schema

formal description of the rules with which an interaction framework must comply