



SLOVENSKI STANDARD
oSIST prEN ISO 19650-2:2018
01-marec-2018

Organizacija podatkov o gradbenih delih - Upravljanje podatkov z uporabo modeliranja informacij o zgradbi - 2. del: Faza predaje sredstev (ISO/DIS 19650-2:2018)

Organization of information about construction works - Information management using building information modelling - Part 2: Delivery phase of assets (ISO/DIS 19650-2:2018)

Organisation von Daten zu Bauwerken - Informationsmanagement mit BIM - Teil 2: Lieferphase der Assets (ISO/DIS 19650-2:2018)

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Ta slovenski standard je istoveten z: prEN ISO 19650-2

ICS:

35.240.67	Uporabniške rešitve IT v gradbeništvu	IT applications in building and construction industry
91.010.01	Gradbeništvo na splošno	Construction industry in general

oSIST prEN ISO 19650-2:2018

en,fr,de

DRAFT INTERNATIONAL STANDARD

ISO/DIS 19650-2.2

ISO/TC 59/SC 13

Secretariat: SN

Voting begins on:
2018-01-19Voting terminates on:
2018-03-16

Organization of information about construction works — Information management using building information modelling —

Part 2: Delivery phase of the assets

*Organisation des informations concernant les ouvrages de construction — Gestion de l'information par
modélisation des informations de la construction —*

Partie 2: Phase de réalisation des actifs

ICS: 35.240.67; 91.010.01

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ISO/CEN PARALLEL PROCESSING



Reference number
ISO/DIS 19650-2.2:2018(E)

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Published in Switzerland

ISO/DIS 19650-2.2:2018(E)

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).

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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on 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 the following URL: www.iso.org/iso/foreword.html.

This document was prepared by ISO/TC 59, *Buildings and civil engineering works*, SC 13, *Organization of information about construction works*.

A list of all parts in the ISO 19650 series, published under the general title *Organization of information about construction works — Information management using building information modelling*, can be found on the ISO website.

Introduction

0.1 Purpose

This document is designed to enable an appointing party to establish their requirements for information during the delivery phase of assets and to provide the right commercial and collaborative environment within which (multiple) appointed parties can produce information in an effective and efficient manner.

This document is applicable to built assets and construction projects of all sizes and all levels of complexity. This includes large estates, infrastructure networks, individual buildings and pieces of infrastructure, and the projects or programmes that deliver them. However, the requirements included in this document should be applied in a way that is proportionate and appropriate to the scale and complexity of the asset or project. In particular, procurement and mobilization of asset or project appointed parties should be integrated as far as possible with documented processes for technical procurement and mobilization.

This document uses the term “shall consider” in relation to many requirements in Clause 5. This term is used to mean that the party in question shall think about whether a particular item is relevant, and if so then shall think about how it is relevant, and then shall take action appropriate to the project.

This document can be used by any appointing party. If the appointing party intends this International Standard to apply to any asset (project) this should be reflected in the appointment.

This document defines the information management process, containing the activities through which delivery teams can collaboratively produce information and minimize wasteful activities.

This document is primarily intended for use by the following (see Figure 1):

- those involved in the management or production of information during the delivery phase of assets;
- those involved in the definition and procurement of construction projects;
- those involved in the specification of appointments and facilitation of collaborative working;
- those involved in the design, construction, operation, maintenance and decommissioning of assets; and
- those responsible for the realization of value for their organization from their asset base.

This document describes concepts and principles which can be adopted across the industry, and will need to be reviewed and revised on a regular basis until best practice is established.

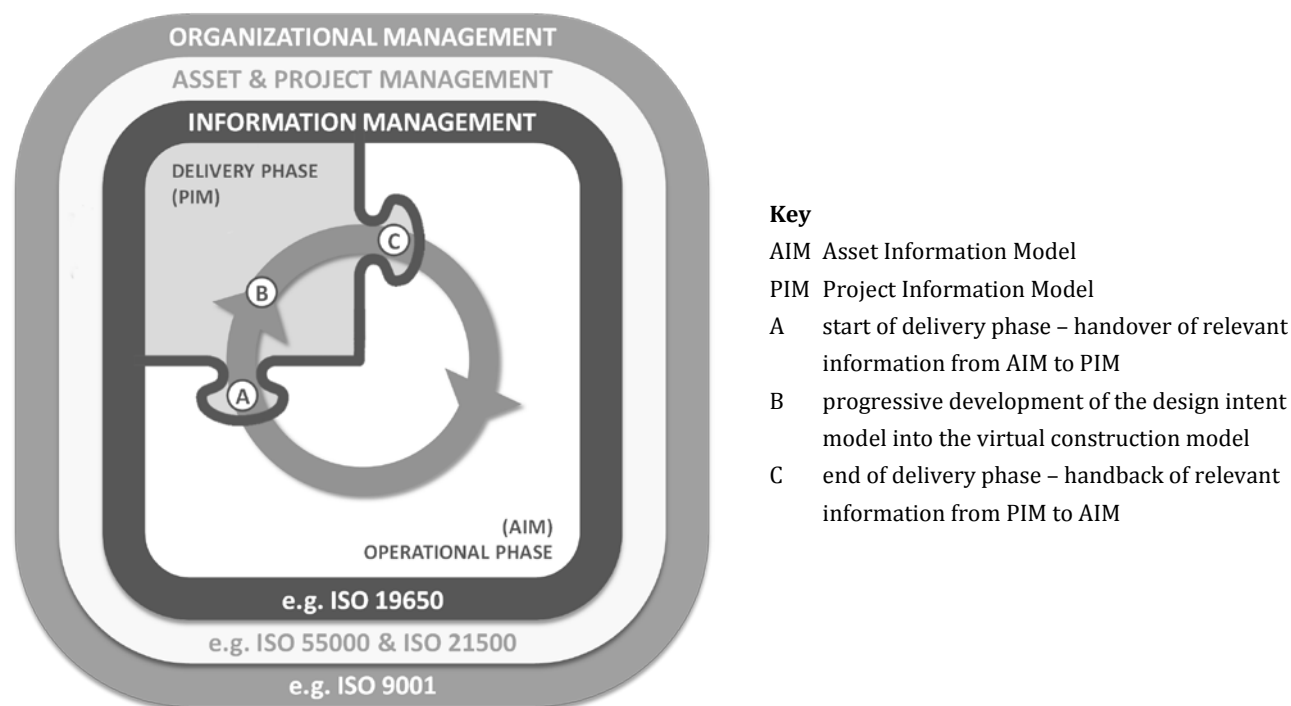


Figure 1 — Scope of ISO 19650-2

0.2 National annex with relevant national standards

There are several standards required for the successful implementation of this document, relating to specific regions or countries, that are not suitable for inclusion within an international standard. As such, national standards bodies are encouraged to compile and document the standards, relevant to the region or country they represent, within a national annex. National annexes can also provide localised guidance and advice on how to implement this document for projects of varying complexity.

0.3 Relationship with other standards

The concepts and principles relating to the application of the requirements within this document are provided in ISO 19650-1.

General information on asset management can be found in ISO 55000.

Appointing parties can find that consideration of the concepts and principles contained within both ISO 19650-1 and ISO 55000 can assist the implementation of the requirements presented in this document and development of asset management in their organization.

0.4 Benefits of ISO 19650

The aim of this document is to support all parties towards achieving their business objectives through the effective and efficient procurement, use and management of information during the delivery phase of assets.

International cooperation in the preparation of these documents has identified a common information management process that can be applied to the broadest range of assets, in the broadest range of organizations, across the broadest range of cultures, under the broadest range of appointment routes.

0.5 Interfaces between parties and teams for the purpose of information management

For the purpose of this document, Figure 2 shows the interfaces between parties and teams in terms of information management and should not be seen as identification of contractual relationships.

The terms for both parties and teams have been used throughout this document to identify and assign the accountable party for each sub-activity.

NOTE: Delivery teams can join and leave the project team at any time.

NOTE: A delivery team might comprise of only one individual or organisation, which acts both as lead appointed party and appointed party.

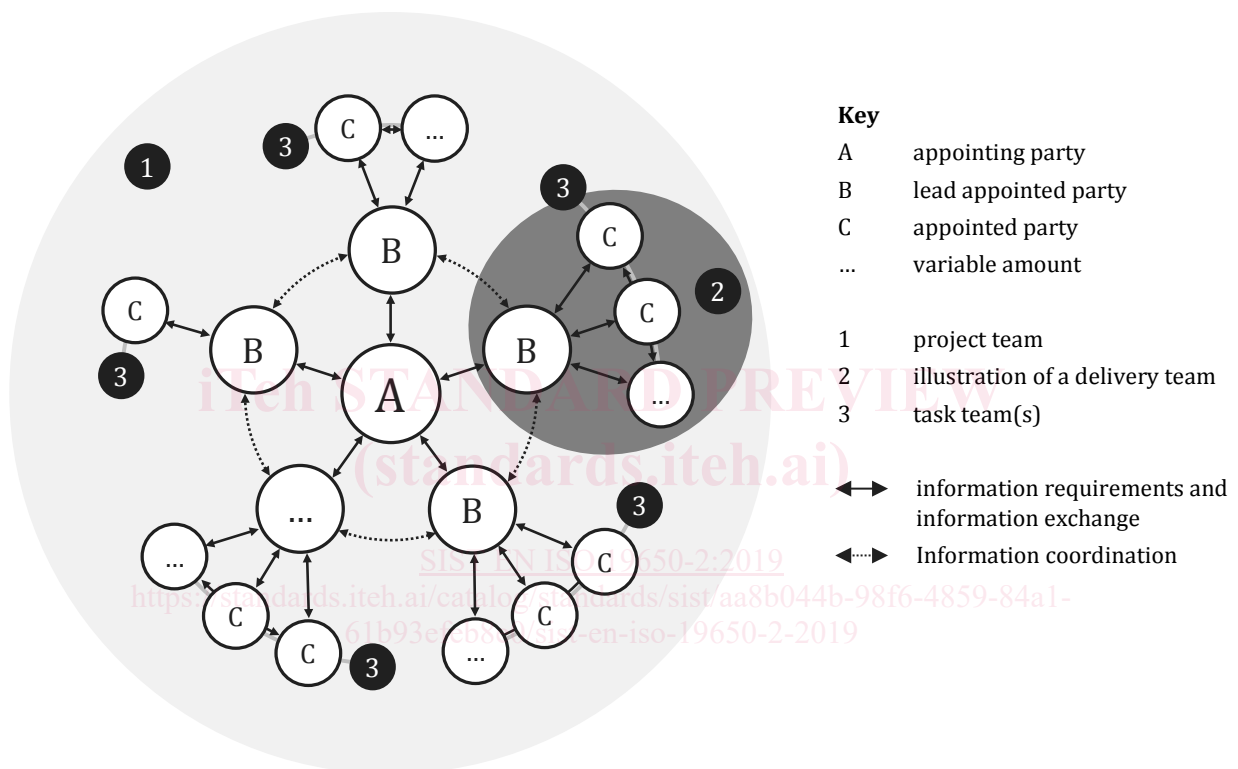


Figure 2 — Interfaces between parties and teams for the purpose of information management

Organization of information about construction works — Information management using building information modelling — Part 2: Delivery phase of the assets

1 Scope

This document specifies requirements for information management, in the form of a management process, within the context of the delivery phase of assets and the exchanges of information within it, when using building information modelling.

This document can be applied to all types of assets and by all types and sizes of organizations, regardless of the chosen procurement strategy.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 19650-1, *Organization of information about construction works — Information management using building information modelling — Part 1: Concepts and Principles*

ISO 12006-2, *Building construction — Organization of information about construction works — Part 2: Framework for classification*

3 Terms, definitions and symbols

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 19650-1 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.2 General terms

In addition to the terms and definitions given in ISO 19650-1, for the purposes of this document, the following general terms apply.

3.1.1

acceptance criteria

evidence required for considering that requirements have been fulfilled

[SOURCE: ISO 22263:2008, 2.1]

ISO DIS 19650-2.2:2018(E)

3.3 Terms related to assets and projects

In addition to the terms and definitions given in ISO 19650-1, for the purposes of this document, the following terms related to assets and projects apply.

3.2.1

project team

appointing party and all delivery teams

3.2.2

plan of work

document that details principal stages in design, construction work and maintenance of a *project* and that identifies the main tasks and people

[SOURCE: ISO 6707-2:2014 – 3.3]

3.4 Terms related to information management

In addition to the terms and definitions given in ISO 19650-1, for the purposes of this document, the following terms related to information management apply.

3.3.1

information delivery milestone

scheduled event for a predefined *information exchange*

3.3.2

master information delivery plan

MIDP

plan incorporating all relevant *task information delivery plans*

3.3.3

task information delivery plan

TIDP

schedule of information containers and delivery dates, for a specific task team

3.5 Symbols for process diagrams



start



end



collapsed sub-process



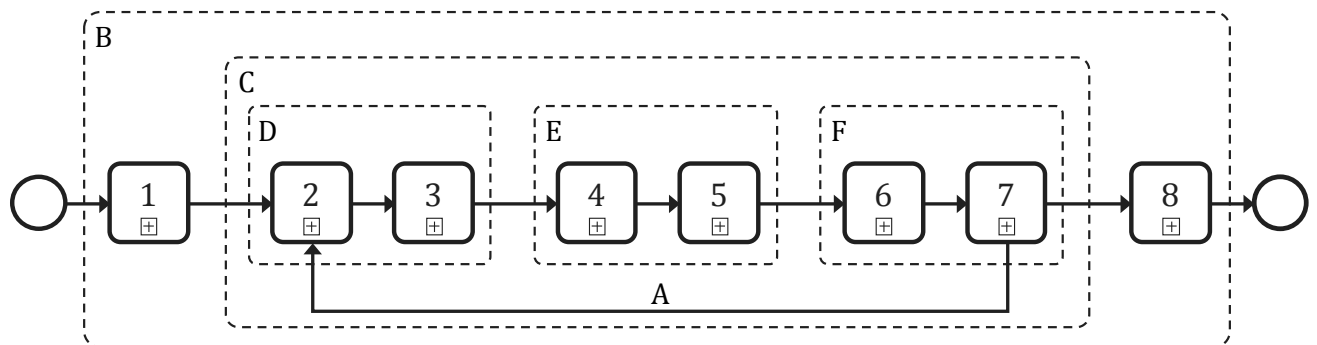
activity

NOTE 1 the symbols used within this document have been adapted from symbols defined within ISO/IEC 19510

4 Information management during the delivery phase of assets

4.1 Information management process during delivery phase of assets

The information management process (Figure 3) shall be applied throughout the delivery phase for each appointment, regardless of project stage.



Activities

1	assessment and need	A	information model progressed by subsequent delivery team(s) for each appointment
2	invitation to tender	B	activities undertaken per project
3	tender response	C	activities undertaken per appointment
4	appointment	D	activities undertaken during the procurement stage (of each appointment)
5	mobilization	E	activities undertaken during the information planning stage (of each appointment)
6	collaborative production of information	F	activities undertaken during the information production stage (of each appointment)
7	information model delivery		
8	project close-out (end of delivery phase)		

Figure 3 — Information management process during the delivery phase of assets

NOTE 1 It is these activities that have been used as the structure for this document, in particular Clause 5.

NOTE 2 The order in which activities are presented (Figure 3) reflects the order in which they are undertaken.

NOTE 3 In the event that the information management process is undertaken within a single organization, the appointment can be supplemented by an internal work instruction, followed by an acceptance of the work instruction and confirmation to proceed, see ISO 19650-1:—¹, 6.3 and 9.1 for more information.